

ANNEX A3

BASELINE WATER QUALITY MONITORING RESULTS

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E2	Fine	Calm	10:16	8.4	S	0.4	36.2	29.5	29.5	26.5	26.4	8.1	8.1	128.8	128.5	8.5	8.5	6.2	2.0	2.0	8.7	6.5	6.7	16.1
						0.1	90.6	29.6	26.4	26.4	8.2	8.1	128.2	8.4	8.4									
						0.1	150.3	28.0	28.1	31.5	31.3	7.8	7.9	57.8	3.8	3.9	4.4	4.2	8.0	7.7				
					M	0.1	128.6	28.1	27.7	31.1	31.3	7.9	7.9	60.4	4.0	3.8	4.0	19.8	7.4	7.7				
						0.4	221.7	27.7	27.7	33.5	33.5	7.7	7.8	54.5	3.6	3.8	3.8	18.1	32.9	33.8				
						0.2	10.8	27.7	27.7	33.5	33.5	7.9	7.8	54.3	3.5	3.8	3.8	21.6	34.6	33.8				
E3	Fine	Calm	11:44	17.0	S	0.7	122.1	29.7	29.8	19.7	19.1	8.1	8.1	97.8	101.3	6.7	6.9	5.2	3.8	3.8	11.1	6.8	7.0	19.1
						0.8	129.6	30.0	29.8	18.5	19.1	8.1	8.1	104.7	7.2	6.9	5.2	3.8	3.8	7.2		7.0		
						0.6	124.3	27.5	27.4	33.3	33.3	8.0	8.0	53.9	3.5	3.5	5.2	4.1	4.3	11.9		12.4		
					M	0.6	162.6	27.4	27.4	33.3	33.3	8.0	8.0	53.7	3.5	3.5	5.2	4.5	4.3	12.9		12.4		
						0.5	114.5	27.1	27.1	33.7	33.7	7.9	7.9	50.8	3.4	3.8	3.8	24.1	38.1	37.9				
						0.5	110.7	27.1	27.1	33.7	33.7	7.9	7.9	50.8	3.4	3.8	3.8	24.1	37.7	37.9				
E4	Cloudy	Calm	14:42	10.5	S	0.9	220.6	30.8	30.8	16.0	15.9	8.1	8.1	98.1	97.9	6.7	6.7	5.4	4.7	4.9	21.5	7.1	6.9	29.1
						1.5	182.2	30.8	30.8	15.9	15.9	8.1	8.1	97.8	6.7	6.7	5.4	5.0	4.9	6.6		6.9		
						1.1	194.8	28.7	28.7	27.3	27.3	8.0	8.0	61.8	4.1	4.1	5.4	19.3	25.7	25.9				
					M	1.3	180.4	28.7	28.7	27.2	27.3	8.0	8.0	61.8	4.1	4.1	5.4	20.7	26.0	25.9				
						0.5	230.4	28.2	28.2	30.9	30.9	7.9	7.9	54.8	3.6	3.8	3.8	40.0	56.4	54.5				
						0.6	200.3	28.2	28.2	30.6	30.7	8.0	7.9	56.9	3.7	3.8	3.8	39.3	52.6	54.5				
E5	Cloudy	Calm	13:35	5.5	S	0.9	193.3	31.7	31.5	14.3	14.3	8.0	8.0	100.1	99.0	6.8	6.7	6.7	4.1	4.3	5.2	9.6	10.0	12.8
						0.2	213.4	31.3	31.5	14.4	14.3	8.0	8.0	97.8	6.7	6.7	6.7	4.5	4.3	10.3		10.0		
						1.3	209.5	29.8	29.9	18.8	18.6	7.9	7.9	82.5	5.6	3.8	3.8	6.1	15.2	15.7				
					B	0.9	220.6	29.9	29.9	18.4	18.6	7.9	7.9	81.9	5.6	3.8	3.8	6.0	16.1	15.7				
						1.4	98.8	30.2	30.3	16.4	15.8	8.0	8.0	86.1	5.9	5.9	5.5	5.8	10.6	10.6				
						0.8	106.9	30.4	30.3	15.2	15.8	8.0	8.0	86.3	6.0	5.9	5.5	5.3	10.5	10.6				
E6	Cloudy	Calm	11:14	6.8	M	0.4	348.2	29.8	29.7	18.7	19.4	7.9	7.9	78.6	74.9	5.4	5.1	5.5	6.0	6.0	6.3	10.3	10.2	10.9
						0.7	141.7	29.6	29.7	20.1	19.4	7.9	7.9	71.2	4.9	5.1	5.5	6.1	10.1	10.2				
						0.1	121.8	29.1	29.1	23.9	24.3	7.9	7.9	67.5	4.5	4.5	4.5	6.7	12.0	12.0				
					B	0.3	230.0	29.0	29.0	24.6	24.3	7.9	7.9	67.2	4.5	4.5	4.5	7.7	12.0	12.0				
						0.8	278.7	30.6	30.6	15.1	15.1	7.9	7.9	96.4	6.6	6.6	6.5	3.9	8.5	8.4				
						0.2	136.5	30.6	30.6	15.0	15.1	7.9	7.9	96.3	6.6	6.6	6.5	4.0	8.3	8.4				
E7A	Cloudy	Calm	10:16	6.1	M	0.7	203.5	30.3	30.3	17.0	16.9	7.8	7.9	92.3	92.2	6.3	6.3	6.5	3.7	4.0	3.9	8.1	8.2	8.1
						0.4	139.1	30.3	30.3	16.9	16.9	7.9	7.9	92.1	6.3	6.3	6.5	4.3	8.2	8.2				
						0.4	328.8	30.3	30.3	17.0	17.0	7.6	7.7	93.9	6.4	6.4	6.4	3.9	7.6	7.7				
					B	0.9	187.7	30.3	30.3	17.0	17.0	7.9	7.7	91.7	6.3	6.4	6.4	3.9	7.7	7.7				
						0.5	122.0	29.8	29.8	25.0	25.0	8.4	8.4	182.8	12.1	12.0	8.0	2.0	8.6	8.3				
						0.5	101.7	29.8	29.8	25.1	25.0	8.4	8.4	178.6	11.8	12.0	8.0	2.1	8.0	8.3				
F1	Fine	Calm	15:19	19.7	M	0.5	125.7	27.8	27.8	33.6	33.4	8.0	8.0	59.7	61.8	3.9	4.0	8.0	2.6	2.3	4.5	8.8	8.9	10.5
						0.4	135.7	27.8	27.8	33.1	33.4	8.0	8.0	63.9	4.2	4.0	8.0	2.0	9.0	8.9				
						0.1	245.1	25.9	25.9	34.1	34.1	7.9	7.9	37.4	2.5	2.5	2.5	8.7	14.7	14.4				
					S	0.1	136.3	25.9	25.9	34.1	34.1	7.9	7.9	37.4	2.5	2.5	2.5	9.4	14.1	14.4				
						0.3	150.5	30.3	30.3	25.9	25.9	8.4	8.4	173.5	11.3	11.4	8.0	1.7	6.2	6.5				
						0.3	150.5	30.3	30.3	25.9	25.9	8.4	8.4	175.3	11.5	11.4	8.0	1.9	6.8	6.5				
F2	Fine	Calm	14:49	19.0	M	0.5	92.8	27.8	27.9	32.3	32.0	8.0	8.1	67.2	70.2	4.4	4.6	8.0	2.3	2.1	4.4	6.2	6.3	9.6
						0.2	154.9	28.1	27.9	31.6	32.0	8.1	8.1	73.2	4.8	4.6	8.0	1.9	6.3	6.3				
						0.1	66.4	26.3	26.2	34.1	34.2	8.0	8.0	50.8	3.4	3.4	3.4	8.8	15.6	16.0				
					B	0.1	310.0	26.1	26.2	34.2	34.2	8.0	8.0	50.4	3.4	3.4	3.4	9.6	16.4	16.0				
						0.1	310.0	26.1	26.2	34.2	34.2	8.0	8.0	50.4	3.4	3.4	3.4	9.6	16.4	16.0				
						0.1	310.0	26.1	26.2	34.2	34.2	8.0	8.0	50.4	3.4	3.4	3.4	9.6	16.4	16.0				

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Fine	Calm	13:16	17.4	S	0.6	132.4	29.9	29.9	22.6	22.7	8.2	8.2	110.5	110.5	7.4	7.4	5.7	2.3	2.5	3.5	4.3	4.4	8.5
						0.4	129.9	29.9		22.7		8.2		110.4		7.4		2.7	4.5					
						0.3	112.6	27.7		33.2		8.0		61.2		4.0		1.5	7.0					
					M	0.4	119.4	27.7	33.2	8.0	60.4	4.0	1.5	7.8										
						B	0.2	199.0	26.7	34.1	7.9	50.7	3.4	6.6	13.6									
							0.2	199.0	26.7	34.1	8.0	50.7	3.4	6.6	13.9									
F4	Fine	Calm	10:47	14.0	S	0.6	83.6	29.4	29.5	22.3	22.4	8.1	8.1	102.8	102.3	6.9	6.9	5.0	3.1	3.1	8.0	7.0	7.4	12.9
						0.5	85.5	29.6		22.5		8.1		101.8		6.8		3.1	7.7					
						0.3	129.7	27.7		32.4		7.9		45.5		3.0		6.9	9.9					
					M	0.4	134.0	27.8	32.1	8.0	46.5	3.1	6.6	10.2										
						B	0.4	93.1	27.7	33.4	7.9	55.7	3.6	14.1	20.4									
							0.2	105.3	27.7	33.4	8.0	55.3	3.6	14.4	22.3									
F5	Cloudy	Calm	14:12	5.5	S	1.1	291.7	31.0	30.9	17.9	18.0	8.0	8.0	88.7	87.9	6.0	5.9	5.9	5.0	4.8	6.1	5.5	5.3	8.4
						0.6	150.9	30.9		18.2		8.0		87.2		5.9		4.6	5.0					
						0.7	207.4	28.4		28.7		8.0		62.9		4.2		8.3	11.9					
					B	0.5	177.2	29.0	24.5	8.0	65.9	4.4	6.6	11.2										
						S	1.3	136.7	30.4	16.3	8.0	91.2	6.3	3.9	6.8									
							1.1	153.2	30.2	16.6	8.0	89.8	6.2	4.6	6.3									
F6	Cloudy	Calm	12:50	13.5	M	1.0	142.1	29.2	29.2	23.7	23.8	7.9	7.9	62.2	62.2	4.2	4.2	5.2	10.9	10.7	11.0	11.5	14.4	
						1.0	153.7	29.2		23.9		7.9		62.2		4.2		10.6	12.0					
						B	0.3	70.9		28.3		27.5		7.9		55.4		3.7	21.5		25.5			
					S		0.5	148.5	28.4	27.2	7.9	53.8	3.6	18.3	24.9									
							0.2	276.0	30.3	30.3	26.8	8.3	159.3	10.4	1.6	7.7								
					IM3	Fine	Calm	14:22	14.5	M	0.5	269.7	30.4	26.7	26.7	26.7	8.3	8.3	164.0	161.6	10.6	10.5		6.9
0.3	141.2	27.7	33.6	8.0							49.7	3.3	11.8		18.7									
0.2	86.1	27.7	33.6	8.0							50.2	3.3	12.4		19.6									
B	0.2	118.1	27.6	33.7						8.0	52.8	3.5	17.6	31.9										
	S	0.2	345.1	27.6						27.6	33.7	8.0	54.8	3.6	16.8	29.7								
		1.3	132.4	30.1						30.1	25.5	8.2	141.6	9.3	2.3	15.1								
IM4	Fine	Calm	13:58	16.0	M	0.1	128.2	30.1	30.1	25.7	25.6	8.2	8.2	141.3	141.5	9.3	9.3	6.5	2.2	2.3	14.5	14.8	20.9	
						0.1	98.0	27.7		33.2		8.0		56.8		3.7		8.3	19.1					
						0.1	32.4	27.7		33.1		8.0		56.5		3.7		8.6	20.0					
					B	0.1	76.2	27.5	27.5	33.8	8.0	51.7	3.4	20.4	27.9									
						S	0.1	89.2	27.5	33.8	8.0	52.5	3.4	19.2	29.0									
							0.5	118.1	29.6	29.5	25.4	8.2	86.1	5.7	3.0	4.0								
IM5	Fine	Calm	13:38	15.2	M	0.2	117.4	29.4	29.5	25.6	25.5	8.2	8.2	86.2	86.2	5.7	5.7	4.6	2.6	2.8	4.2	4.1	11.2	
						0.3	155.1	27.5		33.4		8.0		55.6		3.7		5.7	8.1					
						0.4	145.1	27.5		33.5		8.0		53.4		3.5		6.6	8.9					
					B	0.1	119.7	26.9	26.9	34.0	7.9	52.4	3.5	10.9	20.1									
						S	0.1	94.4	26.9	34.1	8.0	51.5	3.4	12.3	22.0									
							0.1	119.7	26.9	26.9	34.0	7.9	51.5	3.4	11.6	21.1								

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Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM6	Fine	Calm	13:02	16.0	S	0.5	124.5	29.7	29.7	23.6	23.5	8.1	8.1	109.4	107.5	7.3	7.2	5.6	2.4	2.4	4.6	6.2	6.2	10.1
						0.5	124.5	29.7		23.4		8.1		105.5		7.1			2.3					
					M	0.6	116.2	27.7	27.6	33.2	33.3	8.0	8.0	64.6	61.8	4.2	4.0	2.0	1.8	8.6				
						0.4	92.4	27.5		33.5		8.0		58.9		3.9		1.6		8.2				
					B	0.3	139.0	26.7	26.7	34.1	34.1	7.9	7.9	49.4	49.0	3.3	3.2	9.0	9.7	15.1				
						0.3	116.9	26.7		34.1		7.9		46.6		3.2		10.4		16.1				
IM7	Fine	Calm	12:33	13.0	S	0.4	94.2	29.4	29.4	23.9	24.1	8.1	8.1	93.9	93.7	6.3	6.3	5.3	2.6	2.5	3.8	6.5	6.7	9.5
						0.6	70.3	29.4		24.2		8.1		93.6		6.3			2.5					
					M	0.5	69.5	27.6	27.9	32.8	32.1	8.0	8.0	62.3	66.4	4.1	4.4	1.9	2.2	9.1				
						0.6	73.9	28.1		31.5		8.0		70.5		4.6		2.4		8.8				
					B	0.3	65.3	26.8	26.8	34.0	34.0	7.9	7.9	55.4	55.3	3.7	3.7	6.7	6.8	13.0				
						0.2	59.7	26.8		34.0		8.0		55.2		3.7		6.8		12.7				
IM8	Fine	Calm	12:45	14.4	S	0.3	98.7	29.6	29.6	24.0	24.3	8.1	8.1	101.8	99.8	6.8	6.7	5.5	2.4	2.4	3.6	7.5	7.2	10.5
						0.2	121.2	29.5		24.6		8.1		97.8		6.5			2.4					
					M	0.2	104.0	27.9	27.8	32.5	32.7	8.0	8.0	68.8	66.7	4.5	4.4	2.1	2.4	9.7				
						0.4	90.2	27.7		33.0		8.0		64.5		4.2		2.6		10.7				
					B	0.5	101.3	27.0	27.0	33.9	33.9	8.0	8.0	55.3	55.9	3.6	3.7	6.0	5.9	13.6				
						0.1	50.7	27.0		33.9		8.0		56.5		3.7		5.9		14.9				
IM9	Fine	Calm	12:11	15.0	S	0.5	105.0	30.5	30.5	24.0	23.4	8.1	8.1	95.1	95.9	6.3	6.3	5.8	2.3	2.6	5.9	9.0	8.9	15.3
						0.5	127.2	30.5		22.7		8.1		96.7		6.4			2.8					
					M	0.6	119.8	28.4	28.3	30.7	30.8	8.0	8.0	82.7	81.7	5.4	5.4	1.6	1.6	12.0				
						0.4	77.2	28.3		30.8		8.0		80.7		5.3		1.5		12.7				
					B	0.4	110.8	27.7	27.7	33.0	32.9	8.0	8.0	66.3	67.1	4.3	4.4	14.3	13.5	23.7				
						0.6	132.0	27.7		32.9		8.0		67.9		4.5		12.8		25.6				
IM10	Fine	Calm	11:24	12.6	S	0.7	73.9	29.1	28.9	25.3	26.3	8.0	8.0	77.0	74.2	5.1	4.9	4.2	12.1	13.0	32.5	21.0	21.7	38.1
						0.6	62.3	28.8		27.3		8.0		71.5		4.8			14.0					
					M	0.7	70.3	27.6	27.5	32.8	33.1	8.0	8.0	54.7	53.6	3.6	3.5	30.8	33.9	37.7				
						0.6	70.7	27.4		33.4		8.0		52.5		3.5		37.0		40.7				
					B	0.6	73.1	27.5	27.4	33.1	33.3	7.9	8.0	54.3	53.2	3.6	3.5	50.9	50.5	51.1				
						0.5	48.1	27.4		33.4		8.0		52.2		3.4		50.0		55.6				
IM13	Cloudy	Calm	15:08	16.0	S	1.0	273.0	31.5	31.5	12.6	12.4	8.1	8.1	98.6	96.3	6.8	6.6	6.1	4.1	4.5	13.5	4.8	4.8	21.0
						1.8	159.4	31.5		12.2		8.1		94.0		6.5			4.8					
					M	0.4	207.6	30.3	29.8	17.1	17.1	8.1	8.0	91.2	81.3	6.3	5.5	5.3	5.1	12.6				
						1.1	222.7	29.3		17.1		8.0		71.4		4.8		4.8		14.1				
					B	0.9	197.4	28.0	28.1	31.7	31.1	7.9	7.9	53.7	54.9	3.5	3.6	33.6	30.9	42.4				
						0.6	208.9	28.2		30.5		8.0		56.1		3.7		28.2		47.1				
IM14	Cloudy	Calm	14:55	9.5	S	1.5	190.3	31.0	30.9	15.8	15.9	8.1	8.1	100.7	100.5	6.9	6.9	6.4	4.9	5.0	16.4	7.8	7.4	22.7
						1.4	216.4	30.9		15.9		8.1		100.3		6.8			5.1					
					M	0.5	197.9	30.3	30.3	18.5	18.9	8.0	8.0	89.1	88.6	6.1	6.0	18.0	18.3	27.6				
						0.9	196.5	30.3		19.3		8.0		88.2		6.0		18.5		26.8				
					B	0.9	247.5	28.5	28.7	29.2	27.5	8.0	8.0	63.2	64.5	4.2	4.3	25.9	25.9	32.0				
						0.7	180.5	29.0		25.7		8.0		65.7		4.4		25.9		34.9				

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM15	Cloudy	Calm	13:49	5.5	S	0.8	214.3	30.9	30.9	15.9	15.9	8.0	8.0	94.9	95.2	6.5	6.5	6.5	4.7	4.5	7.7	7.1	7.1	9.3
						1.4	224.9	30.9	16.0	16.0	8.0	8.0	95.4	95.2	6.5	6.5	6.5	4.2						
					B	1.1	227.5	29.6	29.7	21.1	20.6	7.9	7.9	78.4	80.3	5.3	5.4	5.4	11.1	10.9	7.7	11.3	11.4	
						1.4	244.3	29.9	29.7	20.2	20.6	8.0	8.0	82.2	80.3	5.6	5.4	5.4	10.7					
IM16A	Cloudy	Calm	13:21	7.0	S	0.5	225.3	31.8	31.7	13.6	13.8	8.0	8.0	93.4	92.8	6.4	6.3	6.1	4.7	4.7	7.7	5.5	5.6	9.9
						0.7	174.6	31.6	31.7	14.0	13.8	8.0	8.0	92.3	92.8	6.3	6.3	6.1	4.8					
					M	0.2	253.6	30.1	30.1	17.3	17.1	8.0	8.0	85.0	85.0	5.8	5.8	6.1	6.6	6.3	7.7	8.6	8.3	
						1.2	178.9	30.2	30.1	16.9	17.1	8.0	8.0	85.0	85.0	5.8	5.8	6.1	6.0					
					B	1.4	107.6	29.8	29.8	19.1	19.0	7.9	7.9	76.8	77.7	5.3	5.3	5.3	13.2	12.2	7.7	16.1	15.9	
						0.7	194.1	29.8	29.8	18.9	19.0	7.9	7.9	78.6	77.7	5.4	5.3	5.3	11.3					
IM17	Cloudy	Calm	12:08	5.0	S	0.5	174.3	31.0	30.9	14.0	14.3	8.0	8.0	92.4	92.5	6.4	6.4	6.4	5.4	5.3	6.6	4.7	4.8	6.7
						1.0	181.9	30.8	30.9	14.6	14.3	8.0	8.0	92.6	92.5	6.4	6.4	6.4	5.3					
					B	0.5	178.0	29.9	29.9	18.2	18.5	7.9	7.9	81.1	81.9	5.6	5.6	5.6	8.4	7.9	6.6	8.8	8.6	
						0.5	180.2	29.9	29.9	18.8	18.5	7.9	7.9	82.7	81.9	5.6	5.6	5.6	7.3					
IM18	Cloudy	Calm	12:23	17.5	S	0.8	138.5	30.5	30.6	15.6	15.6	8.0	8.0	90.3	89.6	6.2	6.2	5.4	5.1	5.0	11.1	6.5	6.8	14.9
						2.1	136.1	30.6	30.6	15.6	15.6	8.0	8.0	89.0	89.6	6.1	6.2	5.4	4.9					
					M	0.5	169.3	29.6	29.5	21.9	22.0	7.9	7.9	70.6	69.1	4.8	4.7	5.4	4.7	5.1	11.1	9.0	9.0	
						0.3	218.7	29.5	29.5	22.1	22.0	7.9	7.9	67.5	69.1	4.6	4.7	5.4	5.5					
					B	0.2	138.0	28.3	28.3	27.4	27.4	7.9	7.9	51.0	51.0	3.4	3.4	3.4	24.1	23.3	11.1	28.5	28.9	
						0.2	97.2	28.3	28.3	27.4	27.4	7.9	7.9	51.1	51.0	3.4	3.4	3.4	22.4					
IM19	Cloudy	Calm	11:44	18.0	S	0.4	172.7	30.4	30.4	17.3	17.4	8.0	8.0	87.4	87.7	6.0	6.0	5.3	4.2	4.1	12.9	5.4	4.9	13.5
						0.4	254.5	30.5	30.4	17.4	17.4	8.0	8.0	88.0	87.7	6.0	6.0	5.3	4.1					
					M	0.9	209.8	29.4	29.4	22.6	22.6	7.9	7.9	66.9	67.1	4.5	4.5	5.3	12.4	11.8	12.9	12.2	12.9	
						1.1	166.2	29.5	29.4	22.6	22.6	7.9	7.9	67.3	67.1	4.5	4.5	5.3	11.2					
					B	0.7	114.6	28.4	28.4	27.7	27.3	7.9	7.9	52.7	54.4	3.5	3.6	3.6	24.9	22.7	12.9	23.0	22.9	
						0.7	105.6	28.5	28.4	27.0	27.3	7.9	7.9	56.2	54.4	3.8	3.6	3.6	20.5					
IM20A	Cloudy	Calm	10:31	5.4	S	0.9	261.9	30.5	30.5	15.5	15.6	7.9	7.9	88.1	88.0	6.1	6.1	6.1	4.7	4.8	4.6	6.9	6.5	7.6
						0.3	155.9	30.5	30.5	15.6	15.6	7.9	7.9	87.9	88.0	6.0	6.1	6.1	4.8					
					B	1.2	294.5	30.4	30.4	15.6	15.6	7.9	7.9	90.1	88.8	6.2	6.1	6.1	4.2	4.4	4.6	8.7	8.7	
						0.7	263.7	30.5	30.4	15.6	15.6	7.9	7.9	87.6	88.8	6.0	6.1	6.1	4.5					
IM21A	Cloudy	Calm	10:42	6.0	S	0.7	191.0	30.3	30.3	16.4	16.5	7.9	7.9	84.4	83.4	5.8	5.7	5.3	6.4	7.2	15.2	9.3	9.3	21.5
						1.3	210.9	30.3	30.3	16.6	16.5	7.9	7.9	82.4	83.4	5.7	5.7	5.3	7.9					
					M	0.4	283.6	29.8	29.8	20.3	20.1	7.9	7.9	71.4	71.7	4.8	4.9	4.8	18.7	18.5	15.2	22.0	22.7	
						1.3	197.6	29.8	29.8	20.0	20.1	7.9	7.9	72.1	71.7	4.9	4.9	4.8	18.4					
					B	0.6	165.5	29.7	29.7	20.8	20.9	7.9	7.9	71.0	70.9	4.8	4.8	4.8	19.5	20.0	15.2	32.1	32.6	
						0.7	296.4	29.7	29.7	21.0	20.9	7.9	7.9	70.8	70.9	4.8	4.8	4.8	20.4					
IM22A	Cloudy	Calm	10:51	5.6	S	1.5	206.5	31.3	31.3	17.8	17.6	7.9	7.9	87.0	87.3	5.8	5.9	5.9	11.0	11.3	11.8	16.8	16.8	17.1
						1.2	236.0	31.4	31.3	17.4	17.6	7.9	7.9	87.6	87.3	5.9	5.9	5.9	11.7					
					B	1.9	236.3	31.3	31.2	17.7	18.2	7.9	7.9	88.1	86.3	5.9	5.8	5.8	11.4	12.3	11.8	17.4	17.5	
						1.1	216.6	31.2	31.2	18.7	18.2	7.9	7.9	84.5	86.3	5.7	5.8	5.8	13.2					

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; S: 1 m above the seabed

Monitoring results obtained at stations E1, IM1, IM2, IM11 and IM12 during mid-ebb tide were discarded as they were sampled outside the planned tidal periods.

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Calm	17:04	9.0	S	0.6	208.4	28.4	28.5	25.5	25.4	7.7	7.8	64.9	66.5	4.4	4.5	4.1	4.6	4.5	7.8	7.9	10.6	
						0.6	208.4	28.5		25.4		68.2		4.6		4.5		8.0						
						0.3	221.3	27.8		27.5		27.5		7.5		7.6		55.4	3.7		3.8			6.0
					M	0.6	181.7	27.9	27.5	27.5	7.6	7.6	56.8	3.8	3.8	5.6	5.8	11.2	9.9	10.0				
						0.2	197.1	27.6	27.5	29.1	7.0	7.2	52.4	3.5	3.5	11.3		11.2	10.1					
						0.2	225.4	27.6	29.1	7.3	7.3	51.5	3.5	3.5	11.1	11.2		13.5						
B	0.3	235.5	30.1	17.3	17.3	8.1	8.1	87.4	6.0	6.0	4.1	4.8	4.0	4.6	4.7									
	0.3	235.5	30.1	17.3	17.3	8.0	8.1	88.5	6.1	6.0	4.0		4.0	4.7										
	0.4	301.8	27.7	32.1	32.1	8.0	8.0	54.6	3.6	3.6	9.4		8.9	10.3										
E3	Fine	Calm	21:27	16.7	M	0.6	311.6	27.8	27.7	32.1	32.1	8.0		8.0	54.9	54.9	3.6	3.6	4.8	4.0	4.0	10.5	10.6	14.0
						0.6	311.6	27.8	27.7	32.1	32.1	8.0			55.3		3.6		3.6	8.4				
						0.6	272.6	27.6	27.6	32.8	32.8	7.9	7.9		52.9		3.5		3.4	18.1		18.5		
					B	0.4	295.5	27.6	27.6	32.8	32.8	7.9	7.9	51.9	3.4	3.4	18.9	18.5	25.9	26.7				
						0.5	312.8	30.7	30.7	15.7	15.5	7.9	7.9	88.8	6.1	6.1	7.1		9.5		7.9			
						0.5	312.8	30.7	30.6	15.3	17.6	8.0	7.9	89.0	6.1	5.9	7.4				7.3	8.1		
E4	Cloudy	Calm	18:04	10.5	M	1.0	82.2	30.6	30.6	17.6	17.6	8.0	7.9	86.8	86.8	5.8	5.9	6.0		6.0	9.5	6.3	8.6	10.9
						0.5	19.5	30.6	17.6	17.6	7.9	7.9		88.3		6.0		6.0	6.6					
						0.5	358.9	28.9	25.9	25.9	7.9	7.9		64.7		4.3		4.3	14.9		15.0			
					B	0.6	347.0	28.9	28.9	25.9	25.9	7.9	7.9	62.6	4.2	4.3	15.1	4.3	16.0	16.1				
						0.6	20.6	30.3	30.3	16.8	16.8	7.9	7.9	82.9	5.7	5.7	7.4		7.8			10.1		
						0.7	92.5	30.3	30.3	16.8	16.8	7.9	7.9	82.7	5.7	5.7	8.1				10.3			
E5	Cloudy	Calm	19:06	5.5	B	1.5	176.9	29.9	29.9	18.4	18.4	7.9	7.9	78.9	78.9	5.5	5.4	5.4		5.4	7.8	7.8	10.5	
						1.0	326.6	29.9	29.9	18.5	18.4	7.9		7.9		78.2		5.3	5.4		7.7			
						0.9	326.5	30.4	30.4	13.9	13.9	7.9		7.9		78.7		5.5	5.6		6.6			8.7
E6	Cloudy	Calm	21:04	5.5	S	0.9	326.5	30.4	30.4	13.8	13.9	7.8	7.8	80.5	80.5	5.7	5.6	5.6	5.6	8.7	6.4	13.5		
						0.9	326.5	30.4	30.4	13.8	13.9	7.8		7.8		82.3		5.7		5.6			6.2	
						0.7	342.9	29.1	29.1	24.1	24.1	7.8		7.8		59.4		4.0		3.9			10.7	10.9
E7A	Cloudy	Calm	21:56	5.0	B	1.3	350.6	29.1	29.1	24.0	24.1	7.8	7.8	58.2	58.2	3.8	3.9	3.9	3.9	10.9	17.2			
						0.5	62.8	29.9	29.9	20.7	20.6	7.9		7.9		75.4		5.1		5.1		6.1	7.5	
						0.2	258.2	29.9	29.9	20.4	20.6	7.9		7.9		75.6		5.1		5.1		6.0		6.1
F1	Fine	Calm	17:55	20.0	S	0.2	82.4	29.2	29.2	24.6	24.6	8.1	8.1	94.2	94.9	6.3	6.3	4.8	1.9	1.8	5.4	3.6		
						0.2	82.4	29.2	29.2	24.6	24.6	8.1		8.1		95.6		6.4	6.3		1.7		3.4	
						0.3	306.5	27.4	27.4	33.7	33.7	8.0		8.0		49.3		3.2	3.3		3.1		2.9	5.7
					M	0.3	311.9	27.5	27.4	33.7	33.7	8.0	8.0	50.8	3.3	3.3	2.7	2.6	5.2					
						0.2	285.1	25.6	25.6	34.3	34.2	7.9	7.9	39.2	2.6	2.6	11.7		11.6	18.7				
						0.2	285.1	25.6	25.6	34.2	34.2	7.9	7.9	39.1	2.6	2.6	11.6			17.4				
F2	Fine	Calm	18:29	19.0	S	0.4	164.3	30.3	30.3	25.0	25.0	8.3	8.3	149.5	150.6	9.8	9.9	6.7		2.5	2.4	6.4	7.6	
						0.4	164.3	30.3	30.3	25.0	25.0	8.3		8.3		151.8		10.0	9.9	2.3		7.5		
						0.2	259.2	27.4	27.4	33.6	33.6	8.0		8.0		52.0		3.4	3.4	3.6		3.4		11.7
					M	0.1	302.3	27.4	27.4	33.6	33.6	8.0	8.0	52.8	3.5	3.4	3.2	3.4	11.6					
						0.4	322.4	26.4	26.4	34.2	34.2	7.9	7.9	41.0	2.7	2.7	13.1		13.3	19.9				
						0.4	322.4	26.4	26.4	34.2	34.2	7.9	7.9	40.9	2.7	2.7	13.6			19.7				

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)						
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*			
F3	Fine	Calm	19:59	17.6	S	0.3	228.2	29.5	29.5	25.9	25.9	8.1	8.1	101.3	101.7	6.7	6.7	4.9	2.2	2.1	6.5	6.2	6.5	14.0			
						0.3	228.2	29.5	25.9	25.9	8.1	8.1	102.1	102.1	6.8	6.8	2.1	2.1									
						0.4	303.1	26.8	26.9	34.1	34.0	8.0	8.0	45.8	46.3	3.0	3.1	4.4	4.1								
					M	0.5	301.2	26.9	26.3	34.0	34.2	7.9	7.9	46.8	43.2	3.1	2.9	3.7	3.7	2.9		13.0			13.5	6.2	25.4
						0.3	20.6	26.3	26.3	34.2	34.2	7.9	7.9	43.7	42.8	2.9	2.9	13.0	13.9	2.8		2.8			6.2	6.4	
						0.4	264.3	26.3	26.3	34.2	34.2	7.9	7.9	42.8	43.2	2.9	2.9	13.9	13.9	2.8		2.8			6.2	6.4	
F4	Fine	Calm	22:13	13.5	S	0.3	281.1	29.3	29.3	28.1	28.2	8.1	8.1	95.0	95.7	6.2	6.3	5.3	2.8	2.8	6.9	6.2	10.5	12.2			
						0.3	281.1	29.3	29.3	28.2	28.2	8.1	8.1	96.5	96.5	6.3	6.3	2.8	2.8								
						0.3	227.1	28.6	28.6	30.3	30.3	8.0	8.0	66.4	67.3	4.4	4.4	4.5	4.5	4.3		4.3			10.4	10.5	
					M	0.3	102.8	28.6	28.6	30.3	30.3	8.0	8.0	68.2	67.3	4.5	4.4	4.1	4.1	13.9		13.5			19.7	19.8	
						0.0	205.1	27.5	27.5	33.5	33.5	7.9	7.9	47.9	46.7	3.1	3.1	13.9	13.9	3.0		3.0			19.7	19.8	
						0.1	226.4	27.5	27.5	33.5	33.5	7.9	7.9	45.4	46.7	3.0	3.1	13.1	13.1	19.8		19.8					
F5	Cloudy	Calm	18:33	5.5	S	0.2	96.1	29.8	29.8	20.7	20.4	7.9	7.9	74.6	76.0	5.1	5.2	5.2	9.9	9.5	17.4	14.1	14.7	25.4			
						0.2	96.1	29.9	29.9	20.2	20.2	7.9	7.9	77.4	76.0	5.3	5.2	9.1	9.1								
					B	1.4	9.8	29.0	29.0	25.7	25.8	7.9	7.9	62.6	62.1	4.2	4.1	4.1	4.1	24.1		25.3			35.4	36.1	
						1.3	31.5	29.0	29.0	25.8	25.8	7.9	7.9	61.5	62.1	4.1	4.1	26.6	26.6								
F6	Cloudy	Calm	19:43	13.5	S	0.6	87.7	31.0	31.0	14.2	14.4	7.9	7.9	91.7	91.5	6.3	6.3	5.8	5.1	4.9	9.5	8.8	14.0	15.2			
						0.4	338.4	31.0	31.0	14.6	14.4	7.9	7.9	91.4	91.5	6.3	6.3	4.7	4.7								
						0.9	282.6	30.0	29.9	19.2	19.4	7.9	7.9	76.2	76.6	5.2	5.2	9.2	8.9								
					M	0.8	332.9	29.9	29.9	19.6	19.4	7.9	7.9	76.9	76.6	5.2	5.2	8.7	8.7	14.4		14.4			13.6	14.0	
						0.8	351.2	29.2	29.2	22.9	22.9	7.9	7.9	66.6	66.2	4.5	4.5	14.4	14.6	23.1		23.0					
						0.5	99.4	29.2	29.2	22.9	22.9	7.9	7.9	65.8	66.2	4.4	4.5	14.9	14.6								
IM1	Fine	Calm	17:36	9.5	S	0.3	358.0	30.4	30.5	27.5	27.5	8.3	8.3	150.5	151.7	9.7	9.8	6.6	1.6	1.5	12.6	10.4	10.4	19.3			
						0.4	350.4	30.5	30.5	27.5	27.5	8.3	8.3	152.9	151.7	9.9	9.8	1.5	1.5								
						0.3	20.7	27.6	27.6	33.4	33.4	7.9	7.9	51.5	51.4	3.4	3.4	13.5	12.0	14.4		13.8					
					M	0.3	20.7	27.6	27.6	33.4	33.4	7.9	7.9	51.2	51.4	3.4	3.4	10.5	10.5	35.2		33.6					
						0.4	320.1	27.5	27.5	33.4	33.4	7.9	7.9	53.6	52.6	3.5	3.4	25.4	24.4	32.0		33.6					
						0.2	302.4	27.5	27.5	33.4	33.4	7.9	7.9	51.5	52.6	3.4	3.4	25.4	24.4								
IM2	Fine	Calm	17:16	11.0	S	0.5	203.8	29.0	29.0	23.7	23.8	8.0	8.0	78.8	79.0	5.3	5.3	4.8	2.8	2.8	8.0	6.2	6.4	12.3			
						0.8	202.9	29.0	29.0	23.9	23.8	8.0	8.0	79.1	79.0	5.3	5.3	2.8	2.8								
						0.6	213.9	28.2	28.2	26.4	26.4	7.9	7.9	61.3	62.5	4.1	4.2	4.2	3.8	6.6		6.4					
					M	0.6	213.5	28.2	28.2	26.3	26.4	7.9	7.9	63.6	62.5	4.3	4.2	3.3	3.8	6.1		6.4					
						0.1	185.5	26.9	26.9	32.7	32.6	7.8	7.8	41.9	39.1	2.8	2.6	16.5	17.4	24.6		24.3					
						0.1	185.5	26.9	26.9	32.5	32.6	7.8	7.8	36.2	39.1	2.4	2.6	18.3	17.4								
IM3	Fine	Calm	18:52	14.7	S	0.9	264.2	29.8	29.8	25.7	25.7	8.3	8.3	150.5	151.7	9.9	10.0	6.8	2.1	2.1	7.1	7.8	10.2	14.3			
						0.9	264.2	29.8	29.8	25.7	25.7	8.3	8.3	152.9	151.7	10.1	10.0	2.2	2.2								
						0.5	260.4	28.1	28.1	30.0	30.1	8.0	8.0	53.3	54.4	3.5	3.6	4.9	4.5	7.5		7.7					
					M	0.5	237.2	28.1	28.1	30.1	30.1	8.0	8.0	55.4	54.4	3.7	3.6	4.0	4.5	10.4		10.2					
						0.3	246.6	27.1	27.1	33.9	33.9	7.9	7.9	41.5	39.9	2.7	2.6	14.7	14.7	27.5		24.9					
						0.2	277.5	27.1	27.1	33.9	33.9	7.9	7.9	38.3	39.9	2.5	2.6	14.7	14.7								
IM4	Fine	Calm	19:16	16.7	S	1.6	300.1	29.6	29.6	26.5	26.5	8.3	8.3	130.4	131.4	8.6	8.6	6.7	2.5	2.4	7.5	7.7	9.1	13.3			
						1.6	300.1	29.6	29.6	26.5	26.5	8.3	8.3	132.5	131.4	8.7	8.6	2.2	2.2								
						0.4	266.1	28.4	28.4	29.6	29.8	8.0	8.0	69.1	71.0	4.6	4.7	3.7	3.4	9.4		9.1					
					M	1.2	332.5	28.4	28.4	29.9	29.8	8.0	8.0	72.9	71.0	4.8	4.7	3.2	3.4	8.8		9.1					
						0.3	270.6	27.3	27.3	33.9	33.9	8.0	8.0	45.7	45.6	3.0	3.0	17.7	16.6	22.8		23.1					
						0.3	270.6	27.3	27.3	33.9	33.9	8.0	8.0	45.6	45.6	3.0	3.0	15.5	15.5								
IM5	Fine	Calm	19:34	15.1	S	0.4	285.8	29.6	29.6	26.9	26.9	8.2	8.2	110.6	111.0	7.3	7.3	5.8	2.3	2.2	5.2	5.9	8.4	11.0			
						0.4	285.8	29.6	29.6	26.9	26.9	8.2	8.2	111.4	111.0	7.3	7.3	2.1	2.1								
						0.2	268.0	28.2	28.3	30.9	30.8	8.0	8.0	63.9	65.0	4.2	4.3	2.3	2.3	8.5		8.4					
					M	0.4	269.2	28.3	28.3	30.7	30.8	8.0	8.0	66.1	65.0	4.3	4.3	2.3	2.3	8.2		8.4					
						0.1	338.9	27.1	27.1	33.8	33.8	8.0	8.0	48.6	46.8	3.2	3.1	10.5	11.0	18.4		19.1					
						0.2	189.4	27.1	27.1	33.8	33.8	8.0	8.0	45.0	46.8	3.0	3.1	11.4	11.0								

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM6	Fine	Calm	20:11	16.2	S	0.1	227.3	29.6	29.6	26.5	26.5	8.2	8.2	113.4	113.2	7.5	7.5	6.1	2.1	2.1	5.5	6.4	6.4	11.8
						0.5	244.4	29.6		26.5		8.2	113.1	7.4		2.2			6.3					
					M	0.5	293.6	28.2	28.3	31.0	30.9	8.0	8.0	69.5	71.3	4.6	4.7		1.6	1.5		8.5	8.6	
						0.5	305.2	28.3		30.8		8.0		73.0		4.8			1.5			8.6		
					B	0.2	244.3	26.5	26.5	34.2	34.2	7.9	7.9	45.0	43.8	3.0	2.9		12.0	12.8		21.1	20.6	
						0.5	7.5	26.5		34.2		7.9		42.5		2.8			13.6			20.0		
IM7	Fine	Calm	20:39	13.0	S	0.7	236.8	29.4	29.4	24.4	24.4	8.1	8.1	90.6	90.8	6.0	6.1	5.5	2.9	2.8	4.5	5.0	5.1	10.0
						0.7	236.8	29.4		24.4		8.1	91.1	6.1		2.7			5.1					
					M	0.5	275.0	28.5	28.5	30.0	30.1	8.0	8.0	73.5	74.2	4.8	4.9		2.6	2.5		9.9	10.1	
						0.7	268.7	28.4		30.2		8.0		74.8		4.9			2.3			10.3		
					B	0.2	283.3	26.6	26.6	34.1	34.0	7.9	7.9	46.6	45.7	3.1	3.0		8.7	8.2		15.4	14.8	
						0.3	258.1	26.6		34.0		7.9		44.8		3.0			7.8			14.2		
IM8	Fine	Calm	20:28	14.4	S	0.6	281.4	29.3	29.3	26.7	26.7	8.1	8.1	99.0	99.3	6.5	6.6	5.8	2.0	2.1	4.7	4.2	4.2	10.5
						0.6	281.4	29.3		26.7		8.1	99.6	6.6		2.2			4.2					
					M	0.5	305.6	28.5	28.5	29.9	30.0	8.1	8.1	75.1	76.5	4.9	5.0		2.4	2.4		6.7	6.5	
						0.4	270.4	28.5		30.1		8.1		77.8		5.1			2.4			6.3		
					B	0.2	113.5	26.6	26.6	34.0	34.0	7.9	7.9	46.4	45.7	3.1	3.0		9.8	9.5		20.5	20.9	
						0.2	113.5	26.6		34.0		7.9		45.1		3.0			9.2			21.3		
IM9	Fine	Calm	21:01	14.8	S	0.6	334.2	30.3	30.3	16.9	16.7	8.1	8.1	96.5	96.9	6.6	6.6	5.6	3.5	3.5	8.8	6.0	6.1	16.3
						0.6	334.2	30.3		16.6		8.1	97.3	6.7		3.4			6.1					
					M	0.4	293.0	28.5	28.5	29.2	29.3	8.0	8.0	68.3	69.4	4.5	4.6		3.8	3.6		8.8	8.7	
						0.5	307.5	28.5		29.4		8.0		70.5		4.7			3.3			8.5		
					B	0.4	275.6	26.7	26.7	33.9	33.9	7.9	7.9	47.0	46.1	3.1	3.1		19.6	19.5		34.6	34.1	
						0.5	287.8	26.7		33.9		7.9		45.2		3.0			19.4			33.5		
IM10	Fine	Calm	21:42	12.1	S	0.2	3.1	29.8	29.8	20.7	20.8	8.0	8.0	84.5	84.6	5.7	5.7	5.5	5.1	5.1	17.4	9.9	9.8	28.0
						0.1	337.5	29.8		20.8		8.0	84.7	5.7		5.1			9.6					
					M	0.3	167.6	29.4	29.4	24.3	24.3	8.0	8.0	78.9	79.7	5.3	5.3		6.8	6.2		11.3	11.4	
						0.3	32.8	29.4		24.3		8.0		80.5		5.4			5.6			11.5		
					B	0.7	247.0	27.8	27.8	32.5	32.5	7.9	7.9	49.0	48.4	3.2	3.2		39.3	41.0		60.6	62.7	
						0.6	242.7	27.8		32.5		7.9		47.7		3.1			42.6			64.8		
IM11A	Cloudy	Calm	17:02	3.5	S	1.1	158.3	30.9	30.9	17.5	17.4	7.9	7.9	97.4	97.4	6.6	6.6	6.6	11.2	10.6	13.6	18.6	18.9	20.9
						0.6	113.2	30.9		17.4		7.9	97.3	6.6		10.1			19.1					
					B	0.7	73.8	30.8	30.8	17.9	18.0	7.8	7.9	96.5	96.4	6.5	6.5		16.8	16.6		23.3	22.9	
						0.9	152.5	30.8		18.0		7.9		96.2		6.5			16.4			22.4		
IM12	Cloudy	Calm	17:12	11.5	S	0.8	183.7	30.9	30.9	15.3	15.3	8.0	8.0	92.7	93.8	6.3	6.4	5.7	5.6	5.1	13.9	8.0	7.8	21.0
						0.9	169.3	30.9		15.2		8.0	94.9	6.5		4.6			7.5					
					M	0.8	347.9	29.5	29.4	24.4	24.7	7.9	7.9	74.8	74.3	5.0	5.0		14.6	14.0		19.3	19.9	
						0.5	350.8	29.3		25.0		7.9		73.8		4.9			13.5			20.4		
					B	0.4	9.4	28.4	28.5	30.3	29.5	7.9	7.9	63.7	63.2	4.2	4.2		25.4	22.6		34.8	35.5	
						0.3	268.5	28.6		28.8		7.9		62.6		4.1			19.8			36.1		
IM13	Cloudy	Calm	17:43	16.0	S	0.3	177.1	30.8	30.8	13.9	13.9	8.0	8.0	85.7	87.4	5.9	6.0	5.0	6.5	6.2	16.1	8.1	8.4	21.5
						1.2	35.5	30.8		13.8		7.9	89.1	6.2		5.9			8.6					
					M	0.3	121.5	28.9	28.7	26.5	27.1	7.9	7.9	61.3	58.9	4.1	3.9		11.7	12.1		19.1	19.9	
						0.4	341.5	28.5		27.7		7.9		56.4		3.8			12.5			20.6		
					B	0.8	48.4	28.0	28.0	32.0	31.9	7.9	7.9	53.4	52.5	3.5	3.4		30.0	29.9		37.5	36.4	
						0.9	306.7	28.0		31.9		7.9		51.6		3.4			29.9			35.3		
IM14	Cloudy	Calm	17:53	9.5	S	0.5	128.2	31.0	31.0	13.7	13.7	7.9	7.9	92.3	92.6	6.4	6.4	6.2	5.7	5.9	13.6	9.4	9.6	15.1
						0.5	128.2	31.0		13.8		7.9	92.8	6.4		6.2			9.8					
					M	0.3	285.6	30.7	30.7	16.8	16.8	8.0	8.0	87.6	88.9	6.0	6.1		6.6	6.0		11.5	11.5	
						0.3	285.6	30.8		16.8		8.0		90.3		6.2			5.3			11.4		
					B	1.1	58.9	28.4	28.5	29.2	29.0	7.9	7.9	57.2	56.7	3.8	3.8		30.5	29.0		23.4	24.4	
						0.3	117.3	28.5		28.8		7.9		56.2		3.7			27.5			25.3		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/14

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM15	Cloudy	Calm	18:56	5.5	S	0.8	8.6	30.5	30.5	17.4	17.9	8.0	7.9	89.5	89.3	6.1	6.1	6.1	5.5	5.3	6.2	8.5	8.4	12.5
						0.8	8.6	30.4		18.5		7.9		89.1		6.1		5.1				8.3		
					B	0.9	356.5	29.9	29.8	21.4	22.1	7.9	7.9	80.1	78.1	5.4	5.2	5.2	6.9	7.1		16.0	16.7	
						0.7	312.7	29.6		22.8		7.9		76.1		5.1		7.4				17.3		
IM16A	Cloudy	Calm	19:18	6.5	S	1.0	9.2	30.6	30.6	12.5	12.4	7.9	7.9	89.3	89.6	6.2	6.3	6.3	5.3	5.3	9.1	7.0	7.2	13.0
						1.0	9.2	30.6		12.4		7.9		89.9		6.3		5.3				7.3		
					M	1.0	274.4	30.3	30.3	15.3	15.4	7.9	7.9	79.3	80.3	5.5	5.6	5.6	8.7	7.8		11.2	11.3	
						0.2	325.1	30.3		15.5		7.9		81.4		5.6		7.0				11.4		
					B	0.9	293.5	29.8	29.8	19.3	19.2	7.8	7.8	74.7	74.3	5.1	5.1	5.1	14.2	14.2		20.9	20.7	
						0.4	38.2	29.8		19.2		7.8		73.9		5.0		14.3				20.4		
IM17	Cloudy	Calm	20:29	4.5	S	0.7	316.5	30.3	30.3	14.0	14.0	7.9	7.9	85.0	84.9	5.9	5.9	5.9	7.0	6.6	10.5	6.8	7.0	12.2
						0.7	316.5	30.3		14.1		7.8		84.8		5.9		6.2				7.1		
					B	0.6	81.8	30.0	30.0	17.2	17.3	7.8	7.8	77.4	76.7	5.3	5.3	5.3	13.8	14.5		17.4	17.4	
						0.7	292.3	30.0		17.3		7.8		76.0		5.2		15.2				17.3		
IM18	Cloudy	Calm	20:09	17.0	S	0.5	31.1	30.9	31.0	12.2	12.8	7.9	7.9	85.3	87.2	5.9	6.0	5.0	6.0	5.9	14.3	7.3	7.6	18.4
						0.5	31.1	31.1		13.3		7.9		89.2		6.2		5.8				7.8		
					M	0.3	24.6	29.1	29.1	23.8	23.7	7.8	7.8	57.3	57.5	3.9	3.9	3.9	8.4	7.9		12.6	13.5	
						1.3	356.3	29.1		23.6		7.8		57.7		3.9		7.5				12.6		
					B	0.6	17.4	28.6	28.6	26.1	26.1	7.8	7.8	53.0	52.4	3.6	3.5	3.5	27.7	29.0		35.8	34.1	
						0.8	355.0	28.6		26.1		7.8		51.9		3.5		30.3				32.3		
IM19	Cloudy	Calm	20:46	17.5	S	0.8	296.2	30.9	30.9	14.6	14.8	7.9	7.9	89.7	90.4	6.2	6.2	5.7	5.0	5.0	13.6	6.5	6.5	20.2
						0.3	237.1	30.9		15.1		7.9		91.1		6.3		5.1				6.5		
					M	0.5	28.2	29.8	29.8	20.9	21.0	7.9	7.9	74.2	76.9	5.0	5.2	5.0	5.9	5.4		10.7	10.4	
						0.5	12.7	29.9		21.2		7.9		79.6		5.4		4.8				10.1		
					B	0.5	307.3	27.9	27.8	29.0	29.1	7.8	7.8	47.3	45.4	3.2	3.0	3.0	27.8	30.3		45.1	43.6	
						0.5	291.9	27.8		29.1		7.8		43.5		2.9		32.8				42.0		
IM20A	Cloudy	Calm	21:42	4.5	S	0.2	311.7	30.3	30.3	19.6	19.8	7.9	7.9	80.4	79.0	5.4	5.3	5.3	8.2	8.3	9.1	15.7	15.2	16.7
						0.3	109.0	30.3		19.9		7.9		77.5		5.2		8.4				14.6		
					B	0.1	325.6	29.6	29.5	23.3	23.5	7.8	7.8	70.2	67.2	4.7	4.5	4.5	9.6	9.9		18.0	18.3	
						0.4	150.2	29.4		23.7		7.8		64.2		4.3		10.1				18.5		
IM21A	Cloudy	Calm	21:32	4.5	S	0.4	275.2	30.1	30.0	21.0	21.4	7.8	7.8	71.2	70.4	4.8	4.7	4.7	13.1	13.0	15.1	19.3	19.0	23.9
						0.4	275.2	29.9		21.9		7.8		69.7		4.7		13.0				18.6		
					B	0.5	82.3	29.4	29.4	24.1	24.1	7.8	7.8	66.7	64.8	4.5	4.3	4.3	17.1	17.2		28.0	28.8	
						0.7	288.8	29.4		24.1		7.8		62.9		4.2		17.4				29.5		
IM22A	Cloudy	Calm	21:27	4.5	S	0.3	57.4	30.5	30.5	20.6	20.6	7.9	7.9	76.8	77.0	5.1	5.2	5.2	14.9	14.6	15.6	23.8	23.0	24.2
						0.3	57.4	30.5		20.6		7.9		77.1		5.2		14.3				22.1		
					B	0.5	218.3	29.4	29.7	24.4	24.0	7.8	7.8	63.8	64.7	4.3	4.3	4.3	15.6	16.6		25.0	25.4	
						0.5	321.9	29.9		23.7		7.8		65.7		4.4		17.6				25.8		

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

Monitoring results obtained at station E2 during mid-flood tide were discarded as they were sampled outside the planned tidal periods.

Water Quality Monitoring Data Log Sheet

Date: 2019/08/16

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
IM15	Cloudy	Calm	13:49	6.0	S	0.8	194.7	30.4	30.5	14.5	14.3	7.8	7.8	95.6	95.5	6.6	6.6	6.1	3.6	3.6	1.7	11.3		
						0.8	194.7	30.5	14.2	14.3	7.8	7.8	95.4	95.5	6.6	6.6	6.1	3.6	3.6	1.6	1.7			
						0.9	167.8	29.8	29.7	20.1	20.3	7.7	7.7	79.1	83.4	5.4	5.7	6.1	4.0	3.9	3.4		3.3	
					0.9	192.8	29.7	29.7	20.4	20.3	7.7	7.7	87.7	87.9	6.0	6.0	5.9	5.9	5.9	3.8	3.9		3.2	29.0
					0.5	109.5	28.1	28.0	28.9	29.0	7.6	7.5	87.9	87.9	5.9	5.9	5.9	14.6	14.6	14.5	14.6		31.5	
					0.4	300.3	28.0	28.0	29.1	29.0	7.5	7.5	87.9	87.9	5.9	5.9	5.9	14.6	14.6	14.6	14.6		26.4	
IM16A	Cloudy	Calm	13:09	7.0	S	0.4	157.7	30.7	30.7	13.8	13.8	7.8	7.8	96.0	96.6	6.7	6.7	6.3	3.6	3.6	1.7	4.1		
						0.4	157.7	30.7	30.7	13.8	13.8	7.8	7.8	97.3	96.6	6.7	6.7	6.3	3.6	3.6	1.5		1.6	
						0.8	145.2	29.5	29.4	18.8	18.6	7.7	7.7	87.1	86.6	6.0	6.0	6.3	3.5	3.5	3.9		3.9	
					0.8	109.4	29.4	29.4	18.5	18.6	7.7	7.7	86.1	86.6	5.9	6.0	6.3	3.5	3.5	3.9	3.9		3.9	
					0.5	88.1	28.1	28.2	27.8	27.9	7.6	7.6	63.6	60.8	4.3	4.1	4.1	9.3	9.6	6.6	6.8			
					0.5	178.0	28.2	28.2	27.9	27.9	7.6	7.6	58.1	60.8	3.9	4.1	4.1	9.9	9.6	7.0	7.0			
IM17	Cloudy	Calm	12:07	5.5	S	1.9	142.6	30.7	30.6	12.9	13.0	7.8	7.8	90.9	94.3	6.3	6.6	6.6	7.3	6.5	2.2	5.4		
						1.3	261.7	30.6	30.6	13.2	13.0	7.8	7.8	97.7	94.3	6.8	6.6	6.6	5.6	6.5	1.8		2.0	
						0.6	214.4	29.3	29.3	21.3	21.2	7.7	7.7	72.8	72.3	5.0	4.9	4.9	19.8	19.3	9.0		8.8	
					0.6	99.8	29.3	29.3	21.2	21.2	7.7	7.7	71.9	72.3	4.9	4.9	4.9	18.9	19.3	8.6	8.6			
					0.3	170.0	30.4	30.6	14.0	13.8	7.8	7.8	86.0	91.9	6.0	6.4	5.2	5.0	4.4	2.3	2.2			
					0.6	182.0	30.8	30.6	13.6	13.8	7.8	7.8	97.8	91.9	6.8	6.4	5.2	3.9	4.4	3.9	2.0		2.2	
IM18	Cloudy	Calm	12:18	17.5	M	0.1	110.2	28.6	28.7	24.9	24.3	7.5	7.6	58.5	60.0	4.0	4.1	4.1	11.9	10.7	9.7	11.8		
						0.2	237.8	28.8	28.7	23.7	24.3	7.6	7.6	61.4	60.0	4.2	4.1	4.1	9.4	10.7	9.9		9.8	
						1.1	32.3	28.0	28.0	26.8	26.8	7.5	7.5	54.0	53.6	3.6	3.6	3.6	21.0	21.1	24.9		23.4	
					0.2	308.4	28.0	28.0	26.8	26.8	7.5	7.5	53.1	53.6	3.6	3.6	3.6	21.3	21.1	21.9	21.9			
					1.4	164.7	30.1	30.0	19.4	19.5	7.7	7.7	81.4	81.8	5.5	5.6	5.0	5.2	5.2	4.8	5.0			
					1.4	164.7	30.0	30.0	19.7	19.5	7.7	7.7	82.2	81.8	5.6	5.6	5.0	5.2	5.2	5.1	5.0			
IM19	Cloudy	Calm	11:45	18.0	M	0.9	110.9	29.0	29.0	23.0	23.1	7.6	7.6	64.8	66.0	4.4	4.5	4.5	11.3	10.0	7.7	37.1		
						0.1	230.0	29.0	29.0	23.2	23.1	7.6	7.6	67.2	66.0	4.6	4.5	4.5	8.6	10.0	7.8		7.8	
						0.3	80.5	27.6	27.6	28.2	28.3	7.6	7.5	52.5	50.6	3.5	3.4	3.4	87.7	97.0	100.0		98.6	
					0.6	147.1	27.5	27.6	28.3	28.3	7.5	7.5	48.8	50.6	3.3	3.4	3.4	106.2	97.0	97.2	97.2			
					0.4	190.7	30.1	30.1	18.0	18.0	7.7	7.7	82.8	83.5	5.7	5.7	5.7	4.2	4.3	4.3	4.3			
					0.4	190.7	30.2	30.1	18.0	18.0	7.7	7.7	84.2	83.5	5.8	5.7	5.7	4.4	4.3	4.4	4.3			
IM20A	Cloudy	Calm	10:42	5.5	B	0.6	320.0	28.9	28.9	23.9	23.8	7.5	7.5	66.4	63.9	4.5	4.3	4.3	24.2	25.4	31.9	17.2		
						0.4	307.3	28.9	28.9	23.8	23.8	7.5	7.5	61.4	63.9	4.2	4.3	4.3	26.6	25.4	28.9		30.4	
						0.7	185.7	29.6	29.6	21.5	21.7	7.6	7.6	70.0	70.1	4.7	4.7	4.7	20.6	20.5	13.0		12.8	
					1.0	218.2	29.5	29.6	21.9	21.7	7.6	7.6	70.2	70.1	4.7	4.7	4.7	20.3	20.5	12.5	12.8			
					0.3	275.2	28.7	28.7	24.6	24.7	7.6	7.6	63.6	61.1	4.3	4.1	4.1	39.2	43.5	47.4	50.8			
					0.3	221.7	28.7	28.7	24.7	24.7	7.6	7.6	58.6	61.1	4.0	4.1	4.1	47.8	43.5	54.2	50.8			
IM22A	Cloudy	Calm	10:59	5.0	S	1.1	174.4	30.7	30.7	23.3	22.7	7.7	7.7	72.8	74.4	4.8	4.9	4.9	34.5	31.0	23.2	32.5		
						1.1	174.4	30.6	30.7	22.1	22.7	7.7	7.7	76.0	74.4	5.0	4.9	4.9	27.5	31.0	24.2		23.7	
						0.8	210.0	30.2	30.2	24.1	24.1	7.7	7.7	69.1	68.6	4.6	4.5	4.5	36.9	37.1	43.3		41.2	
					0.1	213.2	30.2	30.2	24.1	24.1	7.7	7.7	68.2	68.6	4.5	4.5	4.5	37.4	37.1	39.1	41.2			
					0.4	190.7	30.1	30.1	18.0	18.0	7.7	7.7	82.8	83.5	5.7	5.7	5.7	4.2	4.3	4.3	4.3			
					0.4	190.7	30.2	30.1	18.0	18.0	7.7	7.7	84.2	83.5	5.8	5.7	5.7	4.4	4.3	4.4	4.3			

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; S: 1 m above the seabed

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2019/08/16

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)							
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*				
E2	Cloudy	Calm	09:03	9.0	S	0.1	199.4	28.9	28.9	27.9	27.9	7.9	7.9	97.3	98.6	6.4	6.5	5.4	2.0	1.9	15.2	6.4	6.3	27.1				
						0.3	285.8	28.9		27.9		8.0		99.9		6.6			1.9			6.1						
						0.5	10.5	28.4		29.9		29.8		7.8		62.1			4.1			4.3			4.5	8.0		
					M	0.1	199.4	28.5	27.2	29.8	29.8	7.8	7.7	67.2	64.6	4.4	2.3	2.3	4.0	39.5	3.2	3.2	4.6		4.0	4.3	8.5	8.3
						0.0	226.3	27.2		33.6		7.7		35.6		2.3			39.1						67.2		66.7	
						0.0	226.3	27.2		33.6		7.7		33.4		2.2			39.9						66.2		66.7	
E3	Cloudy	Calm	08:00	17.2	S	0.5	307.6	28.9	28.9	19.9	19.6	7.9	7.9	79.8	80.7	5.5	5.6	4.6	3.2	3.2	18.1	3.4	3.5	23.1				
						0.5	307.6	28.9		19.4		7.9		81.6		5.6			3.2			3.5						
						1.0	303.9	27.4		27.4		32.5		32.6		7.8			7.8			55.0			54.4	3.6	3.6	5.4
					0.9	305.9	27.4	32.6	7.8		53.9	3.6	4.6		6.6													
					0.7	301.4	26.8	26.8	33.8		33.8	7.8	7.8		50.5	49.9	3.3	3.3		42.2	46.1	50.0	56.6			59.6		
					0.5	297.7	26.8		33.8	7.8		49.3		3.3	50.0		62.5											
E4	Cloudy	Calm	05:16	11.5	S	0.2	222.8		29.2	29.1		17.0		16.7	7.9		7.9		72.1	78.6		5.0	5.5	5.1	4.9		4.9	10.1
						0.2	222.8	29.1	16.4		7.9	85.1	6.0		4.8	3.8												
						0.5	52.3	29.0	28.9		22.0	22.7	7.9		7.9	68.7		70.2	4.7		4.8	8.3			8.2	7.0		
					0.3	164.3	28.9	23.5		7.9	71.7		4.9	8.2		6.8												
					B	0.2	336.7	27.3		27.3	32.2		32.2	7.7		7.7	49.6		48.0	3.3		3.2	3.2	3.2		16.8	17.2	19.0
						0.1	39.9	27.3	32.2		7.7	46.4		3.1	17.6		18.8											
0.4	147.4	29.6	29.6	14.1		14.0	7.9	7.9	79.2		79.7	5.6		5.6	5.6		5.6	6.4		5.8	4.2		4.4					
1.7	147.1	29.6		14.0	7.9		80.2		5.7	5.1		4.6																
E5	Cloudy	Calm		06:30	5.5		S		0.3	50.2		29.5	29.5		20.5	20.4		7.9	7.9		76.1	75.6		5.2	5.2	5.2	13.5	12.8
			0.3			50.2		29.5	20.4	7.9	75.2	5.1		12.2	11.0													
			E6			Cloudy		Calm	08:26	6.5	S	1.4		343.1	29.1		29.3	21.0		20.4	7.8		7.8	61.0			64.7	
1.3	330.6	29.4		19.8	7.8		68.4					4.7	10.9	11.9														
1.0	30.4	28.4		28.4	25.6		25.5					7.7	7.7	54.6	54.8	3.7		3.7	12.4		12.1	16.0		16.8				
1.2	1.7	28.4			25.4						7.7	55.0		3.7		11.7	17.6											
B	0.6	341.1			28.3						28.3	25.8		25.8		7.8	7.8		55.4	55.3		3.7	3.7		3.7	3.7	14.0	14.0
	0.7	2.7		28.3	25.8		7.7					55.3	3.7		14.1	20.0												
	F1	Cloudy	Calm	04:45	19.5	S	0.2	169.5	28.0	28.0		27.6	27.6		7.9	7.9		71.8	72.3		4.8	4.9		3.9	2.9		2.8	
0.2							169.5	28.0	27.6		7.9	72.8		4.9	2.7		5.9											
0.1							33.7	27.1	27.1		33.8	33.8		7.8	7.8		46.0	45.8		3.0	3.0		2.2		2.0	6.4		6.4
0.1						33.7	27.0	33.8		7.8	45.6		3.0	1.9		6.4												
B						0.1	107.6	25.0		25.0	34.4		34.4	7.8		7.8	43.6		43.3	3.0		2.9	2.9	2.9		9.8	10.0	
						0.3	6.0	25.0	34.4		7.8	42.9		2.9	10.3		14.4											
	F2	Cloudy	Calm	05:18	19.2	S	0.1	233.1	29.2		29.2	27.2		27.2	8.1		8.1	122.2		123.2	8.1		8.1		6.0	1.4		1.4
0.1							222.5	29.2	27.2	8.2		124.2	8.2		1.3	2.7												
0.2							302.6	26.7	26.7	33.8		33.8	7.9		7.9	59.5		59.8	3.9		4.0	4.0		4.0		1.6	1.7	
0.1						310.4	26.8	33.8		7.9	60.2		4.0	3.2														
B						0.1	119.2	25.3		25.3	34.4		34.4	7.8		7.8	45.2		44.6	3.1		3.0	3.0		3.0	8.0		8.1
						0.7	339.4	25.3	34.4		7.8	44.0		3.0	8.2		10.3											

Water Quality Monitoring Data Log Sheet

Date: 2019/08/16

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Cloudy	Calm	06:39	17.8	S	0.2	295.4	28.8	28.8	26.4	26.4	7.9	7.9	86.6	87.3	5.8	5.8	4.6	1.7	1.7	5.9	3.0	9.5	
						0.3	256.0	28.8	26.4	26.4	7.9	7.9	88.0	87.3	5.9	5.8	1.7	1.7	3.1					
						0.6	310.6	26.8	26.8	33.7	33.7	7.8	7.8	51.0	51.7	3.4	3.4	3.0	2.8	3.9				
					M	0.3	301.1	26.9	26.8	33.6	33.6	7.8	7.8	52.4	51.7	3.5	3.4	2.6	2.8	3.4				
						B	0.3	301.0	25.6	25.6	34.4	34.4	7.8	7.8	48.5	47.9	3.3	3.2	13.1	13.2		21.5		
							0.3	301.0	25.6	25.6	34.4	34.4	7.8	7.8	47.3	47.9	3.2	3.2	13.3	13.2		22.1		
F4	Cloudy	Calm	08:37	14.0	S	0.5	271.9	28.6	28.6	29.4	29.3	7.9	7.9	75.3	78.4	5.0	5.2	4.1	2.7	2.7	18.0	5.6	27.6	
						0.7	303.4	28.7	28.6	29.3	29.3	7.9	7.9	81.5	78.4	5.4	5.2	2.8	2.7	5.3				
						0.5	281.2	26.9	26.9	33.8	33.8	7.8	7.8	44.3	44.5	2.9	2.9	13.0	11.8	14.1				
					M	0.5	281.2	26.9	26.9	33.8	33.8	7.8	7.8	44.7	44.5	3.0	2.9	10.6	11.8	15.0				
						B	0.2	253.0	26.9	26.9	33.9	33.9	7.7	7.7	44.2	43.4	2.9	2.9	37.7	39.6		60.8		
							0.3	281.5	26.9	26.9	33.9	33.9	7.8	7.7	42.7	43.4	2.8	2.9	41.4	39.6		64.8		
F5	Cloudy	Calm	05:51	5.5	S	0.7	71.6	29.1	29.1	17.6	17.6	7.9	7.9	80.8	82.7	5.6	5.8	5.8	5.3	5.1	6.5	4.0	5.0	
						0.4	109.7	29.1	29.1	17.6	17.6	7.9	7.9	84.5	82.7	5.9	5.8	5.0	5.1	3.2				
					B	0.3	157.9	28.8	28.9	24.0	23.3	7.9	7.9	67.9	69.2	4.6	4.7	4.7	4.7	9.0		7.9		6.6
						0.7	48.7	29.1	28.9	22.7	22.7	7.9	7.9	70.4	69.2	4.8	4.7	6.9	7.9	6.2				
F6	Cloudy	Calm	07:07	14.5	S	1.1	307.4	29.8	29.8	16.7	16.7	7.9	7.9	83.2	83.5	5.8	5.8	5.2	4.4	4.3	8.9	5.2	12.7	
						1.1	307.4	29.8	29.8	16.6	16.7	7.9	7.9	83.8	83.5	5.8	5.8	4.4	4.3	5.3				
						0.7	334.9	29.0	29.0	22.9	22.9	7.9	7.9	68.0	68.0	4.6	4.6	5.0	4.9	7.0				
					M	1.6	319.2	29.0	29.0	23.0	22.9	7.9	7.9	68.0	68.0	4.6	4.6	4.9	4.9	6.7				
						B	0.5	276.6	28.4	28.4	25.5	25.4	7.8	7.8	61.8	60.3	4.2	4.1	15.9	17.5		27.4		
							0.7	339.0	28.4	28.4	25.4	25.4	7.8	7.8	58.9	60.3	4.0	4.1	19.1	17.5		24.3		
IM1	Cloudy	Calm	04:26	8.0	S	0.2	5.0	28.7	28.7	29.2	29.3	7.9	7.9	73.7	74.2	4.9	4.9	4.3	2.2	2.3	1.9	6.6	5.1	
						0.4	311.9	28.8	28.7	29.4	29.3	7.9	7.9	74.6	74.2	4.9	4.9	2.4	2.3	6.8				
						0.4	17.4	27.6	27.6	32.4	32.3	7.8	7.8	55.1	56.1	3.6	3.7	1.2	1.2	5.7				
					M	0.1	318.3	27.7	27.6	32.2	32.3	7.8	7.8	57.0	56.1	3.8	3.7	1.1	1.2	5.2				
						B	0.2	285.8	26.8	26.8	33.6	33.6	7.8	7.8	49.4	48.4	3.3	3.2	2.1	2.2		3.4		
							0.1	43.7	26.7	26.8	33.6	33.6	7.8	7.8	47.4	48.4	3.1	3.2	2.2	2.2		2.9		
IM3	Cloudy	Calm	05:41	14.6	S	0.2	228.1	28.7	28.7	27.9	27.9	8.0	8.0	97.4	98.6	6.5	6.5	4.6	1.8	1.8	6.5	4.3	9.4	
						0.5	42.3	28.8	28.7	27.9	27.9	8.0	8.0	99.8	98.6	6.6	6.5	1.8	1.8	4.6				
						0.4	214.6	27.3	27.3	33.4	33.3	7.8	7.8	41.0	40.3	2.7	2.6	5.1	5.1	5.8				
					M	0.2	244.2	27.3	27.3	33.2	33.3	7.8	7.8	39.6	40.3	2.6	2.6	5.0	5.1	5.2				
						B	0.4	307.5	26.4	26.4	34.1	34.1	7.7	7.7	31.1	29.9	2.1	2.0	12.3	12.6		17.8		
							0.2	335.1	26.4	26.4	34.1	34.1	7.7	7.7	28.7	29.9	1.9	2.0	12.8	12.6		18.4		
IM4	Cloudy	Calm	06:02	16.3	S	0.3	267.9	28.8	28.8	26.3	26.3	8.0	8.0	89.7	90.9	6.0	6.1	4.5	2.2	2.1	6.9	4.7	11.8	
						0.3	267.9	28.8	28.8	26.3	26.3	8.0	8.0	92.2	90.9	6.2	6.1	2.1	2.1	5.1				
						0.4	258.9	27.0	27.0	33.9	33.9	7.8	7.8	44.8	44.8	3.0	3.0	6.4	6.2	10.4				
					M	0.3	229.5	27.0	27.0	33.9	33.9	7.8	7.8	44.8	44.8	3.0	3.0	6.1	6.2	11.0				
						B	0.1	156.5	27.0	27.0	34.0	34.0	7.8	7.8	47.9	47.4	3.2	3.1	12.4	12.4		19.0		
							0.3	277.0	27.0	27.0	34.0	34.0	7.8	7.8	46.9	47.4	3.1	3.1	12.4	12.4		20.8		
IM5	Cloudy	Calm	06:21	15.0	S	0.2	269.0	28.9	28.9	26.6	26.6	8.0	7.9	89.4	90.4	6.0	6.0	4.9	2.2	2.1	4.6	3.8	8.4	
						0.4	306.2	28.9	28.9	26.5	26.6	7.9	7.9	91.4	90.4	6.1	6.0	2.1	2.1	3.2				
						0.3	320.4	27.6	27.6	32.9	32.9	7.8	7.8	58.3	58.9	3.8	3.9	1.4	1.4	4.7				
					M	0.2	306.3	27.6	27.6	32.9	32.9	7.9	7.8	59.6	58.9	3.9	3.9	1.4	1.4	4.5				
						B	0.4	298.2	26.1	26.1	34.3	34.3	7.8	7.8	49.4	48.6	3.3	3.2	9.9	10.1		16.4		
							0.1	341.2	26.1	26.1	34.3	34.3	7.8	7.8	47.9	48.6	3.2	3.2	10.4	10.1		17.5		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/16

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)					
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*		
IM15	Cloudy	Calm	06:16	6.0	S	0.2	264.6	29.4	29.4	16.3	15.9	7.9	7.9	79.2	80.2	5.5	5.6	5.3	5.4	5.3	9.5	7.0	7.3	13.6		
						0.7	10.0	29.4	29.4	15.6	7.9	7.9	81.1	5.7	5.6	5.3	5.2									
						0.4	327.1	29.4	29.4	20.9	20.9	7.9	7.9	72.9	5.0	5.0	5.3	6.4								
					M	0.3	279.0	29.4	29.4	20.9	20.9	7.9	7.9	73.4	5.0	5.0	5.3	6.6	6.5	5.3		5.4	5.3		11.9	11.2
						0.5	49.4	28.6	28.6	25.7	25.8	7.8	7.8	60.9	4.1	4.1	4.1	16.5	16.7	16.7		16.5	16.7		21.9	22.3
						0.2	31.2	28.6	28.6	25.9	25.9	7.8	7.8	59.9	4.0	4.0	4.1	16.8	16.8	16.7		16.8	16.7		22.6	22.6
IM16A	Cloudy	Calm	06:43	7.0	S	0.3	0.7	29.4	29.5	16.5	16.3	7.9	7.9	78.8	79.1	5.5	5.5	5.2	6.5	5.9	12.5	8.7	9.1	18.9		
						0.3	0.7	29.5	29.5	16.2	7.9	7.9	79.4	5.5	5.5	5.2	5.4									
						0.4	279.2	29.3	29.3	20.9	20.8	7.9	7.9	72.4	4.9	4.9	5.2	17.1								
					M	0.3	324.7	29.4	29.3	20.7	20.8	7.9	7.9	72.5	5.0	4.9	5.2	14.7	15.9	15.9		14.7	15.9		19.7	20.9
						0.4	8.6	29.3	29.3	21.0	21.0	7.9	7.9	75.0	5.1	5.0	5.0	14.4	15.6	15.6		14.4	15.6		28.1	26.7
						0.7	10.1	29.3	29.3	21.1	21.0	7.9	7.9	72.6	4.9	5.0	5.0	16.7	15.6	15.6		16.7	15.6		25.2	26.7
IM17	Cloudy	Calm	07:47	5.5	S	1.0	351.6	29.5	29.5	16.9	16.9	7.8	7.8	80.0	80.6	5.6	5.6	5.6	6.7	5.9	11.5	12.4	12.5	22.4		
						0.9	337.8	29.5	29.5	17.0	16.9	7.8	7.8	81.2	5.6	5.6	5.6	5.1								
						0.8	37.0	29.4	29.4	19.7	19.7	7.8	7.8	79.8	5.5	5.5	5.5	17.1								
					B	0.8	38.9	29.4	29.4	19.7	19.7	7.8	7.8	79.7	5.5	5.5	5.5	17.2	17.1	17.1		17.2	17.1		30.2	32.4
						0.9	3.2	29.6	29.6	13.1	13.1	7.8	7.8	77.0	5.5	5.5	5.5	17.2	17.1	17.1		17.2	17.1		34.5	32.4
						0.9	3.2	29.6	29.6	13.1	13.1	7.8	7.8	77.6	5.5	5.5	5.5	17.2	17.1	17.1		17.2	17.1		34.5	32.4
IM18	Cloudy	Calm	07:33	17.5	S	0.9	3.2	29.6	29.6	13.1	13.1	7.8	7.8	77.0	77.3	5.5	5.5	4.6	5.0	4.9	24.5	8.8	9.0	31.5		
						0.9	3.2	29.6	29.6	13.1	13.1	7.8	7.8	77.6	5.5	5.5	4.6	4.9								
						1.2	350.5	28.5	28.5	25.0	25.3	7.7	7.7	54.9	3.7	3.7	4.6	10.8								
					M	1.5	335.7	28.4	28.5	25.6	25.3	7.7	7.7	55.1	3.7	3.7	4.6	10.8	10.8	10.8		10.8	10.8		13.3	12.7
						0.6	49.8	27.4	27.4	28.8	28.8	7.7	7.7	43.2	2.9	2.8	2.8	57.1	57.7	57.7		57.1	57.7		70.8	73.0
						0.9	5.0	27.4	27.4	28.8	28.8	7.7	7.7	41.1	2.8	2.8	2.8	58.3	57.7	57.7		58.3	57.7		75.2	73.0
IM19	Cloudy	Calm	08:04	18.0	S	0.7	19.4	29.7	29.7	18.0	18.0	7.8	7.8	74.7	74.7	5.1	5.1	4.9	4.5	4.5	24.4	4.5	4.8	16.6		
						1.1	359.2	29.7	29.7	18.1	18.0	7.8	7.8	74.7	5.1	5.1	4.9	4.5								
						0.7	339.6	29.1	29.1	22.6	22.5	7.8	7.8	66.3	4.5	4.6	4.9	6.4								
					M	1.7	353.9	29.1	29.1	22.5	22.5	7.8	7.8	69.7	4.7	4.6	4.9	5.0	5.7	5.7		5.0	5.7		6.9	7.0
						1.1	345.8	27.2	27.2	29.5	29.5	7.7	7.6	48.9	3.3	3.2	3.2	59.1	63.1	63.1		59.1	63.1		35.6	37.9
						0.2	103.9	27.2	27.2	29.5	29.5	7.6	7.6	45.2	3.0	3.2	3.2	67.0	63.1	63.1		67.0	63.1		40.2	37.9
IM20A	Cloudy	Calm	09:07	5.5	S	0.5	274.7	30.0	30.0	19.4	19.2	7.9	7.9	81.1	81.2	5.5	5.5	5.5	6.5	6.6	10.0	13.6	13.8	18.1		
						4.6	342.7	30.0	30.0	18.9	19.2	7.9	7.9	81.2	5.5	5.5	5.5	6.7								
						0.2	197.6	28.6	28.6	25.0	25.0	7.8	7.8	60.8	4.1	4.0	4.0	13.2								
					B	0.2	197.6	28.6	28.6	24.9	25.0	7.8	7.8	56.9	3.8	4.0	4.0	13.8	13.5	13.5		13.8	13.5		22.1	22.4
						0.5	205.7	30.0	30.1	21.5	21.4	7.8	7.8	68.0	4.6	4.8	4.8	24.3	23.8	23.8		24.3	23.8		30.4	31.9
						0.2	236.9	30.2	30.1	21.4	21.4	7.9	7.8	76.4	5.1	4.8	4.8	23.2	23.8	23.8		23.2	23.8		33.4	31.9
IM21A	Cloudy	Calm	08:56	5.5	B	0.4	342.3	28.3	28.3	26.0	26.0	7.8	7.8	70.9	66.4	4.8	4.5	4.5	21.0	22.1	22.9	40.7	42.2	37.1		
						0.4	184.9	28.3	28.3	26.0	26.0	7.8	7.8	61.8	4.2	4.5	4.5	23.3								
						0.7	171.4	29.9	29.9	21.7	21.5	7.9	7.9	68.7	4.6	4.7	4.7	26.4								
					S	0.7	171.4	29.9	29.9	21.7	21.5	7.9	7.9	68.7	4.6	4.7	4.7	26.4	24.1	24.1		26.4	24.1		28.8	32.2
						0.7	171.4	29.8	29.9	21.3	21.5	7.9	7.9	71.2	4.8	4.7	4.7	21.9	24.1	24.1		21.9	24.1		35.6	32.2
						0.2	273.0	28.7	28.8	25.4	25.3	7.8	7.8	60.4	4.1	3.9	3.9	29.1	30.2	30.2		29.1	30.2		48.9	51.9
B	0.2	273.0	28.7	28.8	25.4	25.3	7.8	7.8	60.4	4.1	3.9	3.9	29.1	30.2	30.2	29.1	30.2	48.9	51.9							
	0.9	229.3	28.8	28.8	25.2	25.3	7.8	7.8	56.6	3.8	3.9	3.9	31.3	30.2	30.2	31.3	30.2	54.9	51.9							
	0.9	229.3	28.8	28.8	25.2	25.3	7.8	7.8	56.6	3.8	3.9	3.9	31.3	30.2	30.2	31.3	30.2	54.9	51.9							

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; S: 1 m above the seabed

Monitoring results obtained at stations E1, E7, IM2 and IM10 during mid-flood tide were discarded as they were sampled outside the planned tidal periods.

Water Quality Monitoring Data Log Sheet

Date: 2019/08/19

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
IM6	Fine	Calm	14:17	16.0	S	0.2	150.7	29.1	27.4	27.5	27.4	8.2	8.2	134.5	137.7	8.9	9.1	7.1	1.6	1.6	3.3	3.4	6.2
						0.2	120.2	29.2	27.5	27.4	8.2	8.2	140.9	140.9	9.3	9.1	0.6	0.6	3.3	3.4			
						0.3	59.9	27.8	33.7	33.7	8.0	8.0	76.2	77.5	5.0	5.0	0.6	0.6	3.3	3.3			
						0.4	115.0	27.8	33.7	33.7	8.0	8.0	78.7	77.5	5.1	5.0	0.6	0.6	3.2	3.3			
						0.1	184.2	25.2	34.2	34.2	7.7	7.7	43.5	41.2	3.0	2.8	8.4	8.9	12.2	12.0			
						0.1	184.2	25.2	34.2	34.2	7.7	7.7	38.9	41.2	2.6	2.8	9.4	8.9	11.8	12.0			
IM7	Fine	Calm	13:49	13.0	S	0.2	105.4	28.3	28.8	28.8	28.7	8.0	8.0	90.8	94.8	6.0	6.3	5.4	1.4	1.4	3.1	3.3	4.5
						0.6	76.0	28.4	28.5	28.7	8.0	8.0	98.8	94.8	6.6	6.3	0.7	0.7	3.5	3.5			
						0.4	77.5	27.4	33.1	33.1	7.9	7.9	68.6	69.2	4.5	4.6	0.6	0.6	3.4	3.5			
						0.4	77.5	27.5	33.1	33.1	7.9	7.9	69.9	69.2	4.6	4.6	0.6	0.7	3.6	3.5			
						0.2	72.8	25.8	34.0	34.0	7.8	7.8	50.4	49.4	3.4	3.3	4.7	4.7	6.8	6.6			
						0.2	119.4	25.8	34.0	34.0	7.8	7.8	48.5	49.4	3.3	3.3	4.7	4.7	6.3	6.6			
IM8	Fine	Calm	13:59	14.5	S	0.4	141.8	29.0	27.9	28.1	28.1	8.1	8.1	115.0	115.4	7.6	7.6	6.2	1.6	1.6	2.2	2.2	8.4
						0.4	124.8	28.8	28.2	28.1	8.1	8.1	115.9	115.4	7.7	7.6	1.6	1.6	2.2	2.2			
						0.2	50.9	27.6	33.4	33.4	7.9	7.9	72.2	73.2	4.7	4.8	0.9	0.8	6.6	7.0			
						0.2	50.9	27.6	33.4	33.4	7.9	7.9	74.1	73.2	4.9	4.8	0.7	0.8	7.3	7.0			
						0.2	94.2	25.4	34.1	34.1	7.8	7.8	45.9	43.9	3.1	3.0	9.2	10.0	16.8	16.0			
						0.4	93.9	25.4	34.1	34.1	7.8	7.8	41.8	43.9	2.8	3.0	10.8	10.0	15.1	16.0			
IM9	Fine	Calm	13:29	15.0	S	0.4	142.9	28.9	25.3	25.2	25.2	7.9	7.9	93.8	94.0	6.3	6.3	5.9	2.0	2.0	4.4	4.7	10.0
						0.3	139.4	29.0	25.1	25.2	7.9	7.9	94.1	94.0	6.3	6.3	2.0	2.0	4.4	4.7			
						0.5	164.2	28.0	29.5	29.5	7.9	7.9	80.4	82.2	5.3	5.5	2.3	2.2	5.4	5.5			
						0.5	164.2	28.0	29.4	29.5	7.9	7.9	83.9	82.2	5.6	5.5	2.1	2.2	5.6	5.5			
						0.2	152.1	26.1	33.4	33.5	7.8	7.8	47.0	45.4	3.2	3.0	10.5	11.2	20.8	19.8			
						0.2	152.1	26.0	33.5	33.5	7.8	7.8	43.7	45.4	2.9	3.0	11.9	11.2	18.8	19.8			
IM10	Cloudy	Calm	17:05	11.0	S	0.1	147.2	27.7	28.9	28.8	28.8	7.7	7.7	71.5	71.4	4.8	4.8	3.8	10.3	9.1	10.0	10.0	21.9
						1.1	256.6	27.7	28.8	28.8	7.7	7.7	71.2	71.4	4.8	4.8	7.9	9.1	10.0	10.0			
						0.8	132.0	26.1	33.3	33.3	7.5	7.5	40.6	40.6	2.7	2.7	17.0	16.3	16.2	15.6			
						0.8	132.0	26.1	33.3	33.3	7.5	7.5	40.6	40.6	2.7	2.7	15.6	16.3	14.9	15.6			
						0.7	284.2	25.8	33.8	33.8	7.6	7.5	46.0	45.9	3.1	3.1	28.3	28.3	42.1	40.3			
						0.7	314.1	25.8	33.8	33.8	7.5	7.5	45.8	45.9	3.1	3.1	28.3	28.3	38.4	40.3			
IM11A	Cloudy	Calm	16:54	4.5	S	0.5	119.3	28.6	24.9	24.9	24.9	7.7	7.7	72.6	73.5	4.9	5.0	5.0	37.7	33.5	59.6	60.7	61.2
						0.5	119.3	28.7	24.8	24.9	7.7	7.7	74.3	73.5	5.0	5.0	29.3	33.5	61.7	60.7			
						0.2	35.5	28.3	26.1	26.0	26.0	7.7	7.7	70.7	69.9	4.8	4.7	53.7	55.8	60.5	61.7		
						0.8	89.4	28.3	25.8	26.0	26.0	7.7	7.7	69.1	69.9	4.7	4.7	57.9	55.8	62.8	61.7		
						1.9	180.8	28.6	24.3	24.1	24.1	7.7	7.7	73.6	74.4	5.0	5.0	8.4	7.5	6.1	6.2		
						1.9	180.8	28.6	23.9	24.1	24.1	7.7	7.7	75.2	74.4	5.1	5.0	6.5	7.5	6.2	6.2		
IM12	Cloudy	Calm	16:45	12.5	M	1.2	141.1	26.8	31.3	31.2	31.2	7.5	7.5	45.0	45.0	3.0	3.0	4.0	81.7	80.6	40.2	41.0	45.0
						1.6	143.9	26.8	31.0	31.2	7.5	7.5	45.1	45.0	3.0	3.0	79.5	80.6	41.7	41.0			
						0.8	170.5	26.5	32.4	32.4	7.5	7.5	42.0	41.7	2.8	2.8	204.9	203.3	85.7	87.9			
						0.6	179.6	26.5	32.4	32.4	7.5	7.5	41.4	41.7	2.8	2.8	201.7	203.3	90.0	87.9			
						1.2	175.5	30.2	20.1	20.7	20.7	7.7	7.8	79.4	83.9	5.4	5.7	3.7	3.4	4.5	4.6		
						1.2	175.5	30.2	21.2	20.7	20.7	7.7	7.8	88.3	83.9	6.0	6.0	3.2	3.4	4.7	4.6		
IM13	Cloudy	Calm	16:21	16.5	M	0.7	193.6	27.0	30.7	30.5	30.5	7.5	7.5	49.9	50.8	3.4	3.4	4.5	7.1	6.6	10.3	10.3	25.7
						0.7	205.8	27.1	30.3	30.5	7.5	7.5	51.7	50.8	3.5	3.4	6.0	6.6	10.2	10.3			
						0.4	216.8	26.6	32.2	32.1	32.1	7.5	7.5	46.9	44.8	3.1	3.0	189.7	207.1	68.1	62.2		
						1.2	261.1	26.6	32.1	32.1	32.1	7.5	7.5	42.7	44.8	2.9	3.0	224.5	207.1	56.2	62.2		
						0.8	261.1	28.9	22.9	22.9	22.9	7.6	7.6	68.4	72.9	4.6	4.9	5.0	4.9	7.8	7.7		
						0.9	209.1	29.0	22.8	22.9	22.9	7.7	7.6	77.4	72.9	5.3	4.9	4.7	4.9	7.5	7.7		
IM14	Cloudy	Calm	16:10	10.5	M	0.8	205.2	26.8	31.4	31.5	31.5	7.4	7.4	45.1	44.4	3.0	3.0	4.0	18.6	18.8	11.2	11.2	16.2
						0.8	233.6	26.7	31.7	31.5	7.4	7.4	43.7	44.4	2.9	3.0	18.9	18.8	11.1	11.2			
						0.8	195.7	26.5	32.3	32.3	32.3	7.5	7.4	43.7	43.0	2.9	2.9	85.2	82.0	31.1	29.7		
						1.5	224.7	26.6	32.3	32.3	32.3	7.4	7.4	42.3	43.0	2.8	2.9	78.8	82.0	28.2	29.7		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/19

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
IM15	Cloudy	Calm	15:09	6.5	S	1.2	207.0	30.1	30.1	18.4	18.4	7.7	7.7	81.9	84.1	5.6	5.7	5.3	3.3	3.2	3.3	3.6		
						0.3	217.5	30.1	18.4	18.4	7.7	7.7	86.4	84.1	5.9	5.7	5.3	3.1	3.2	3.9	3.6			
						0.8	190.6	29.2	28.9	24.2	7.6	7.6	73.3	70.9	4.9	4.8	5.3	5.1	5.0	5.9	5.7			
					M	0.7	242.4	28.5	27.4	25.0	24.2	7.6	7.6	68.5	68.1	4.6	4.7	5.3	4.9	5.0	5.4	5.7	5.4	5.7
						0.5	191.4	27.4	27.4	28.9	29.0	7.6	7.5	59.3	55.8	4.0	3.8	3.8	15.6	17.2	19.8	20.7		
						0.4	162.3	27.4	27.4	29.1	29.0	7.5	7.5	52.2	55.8	3.5	3.8	3.8	18.8	17.2	21.6	20.7		
IM16A	Cloudy	Calm	14:45	7.5	S	0.6	76.9	29.8	29.8	18.1	18.2	7.7	7.7	84.9	85.1	5.8	5.8	5.3	3.1	3.0	2.8	2.9		
						1.0	131.6	29.7	29.8	18.2	18.2	7.7	7.7	85.2	85.1	5.9	5.8	5.3	3.0	3.0	2.9	2.9		
						0.2	252.0	28.4	28.4	22.8	22.7	7.6	7.6	68.1	68.1	4.7	4.7	5.3	5.4	5.3	4.5	4.6		
					M	0.5	221.3	28.4	28.4	22.7	22.7	7.6	7.6	68.1	68.1	4.7	4.7	5.3	5.3	5.3	4.7	4.7	4.5	4.6
						0.2	1.4	27.5	27.4	28.6	28.8	7.6	7.6	60.2	55.8	4.1	3.8	3.8	19.8	22.1	22.1	23.9		
						0.2	1.4	27.4	27.4	29.1	28.8	7.6	7.6	51.3	55.8	3.5	3.8	3.8	24.4	22.1	25.6	23.9		
IM17	Cloudy	Calm	13:50	5.5	S	0.2	204.9	29.2	29.3	19.2	19.0	7.7	7.7	74.4	76.3	5.1	5.3	5.3	9.8	8.8	9.5	9.2		
						2.2	152.3	29.4	29.3	18.8	19.0	7.7	7.7	78.1	76.3	5.4	5.3	5.3	7.8	8.8	8.9	9.2		
						1.1	172.7	28.6	28.5	21.8	22.0	7.7	7.7	75.1	75.2	5.2	5.2	5.2	12.1	12.1	16.1	15.1		
					B	0.2	136.0	28.5	28.5	22.2	22.0	7.6	7.6	75.2	75.2	5.2	5.2	5.2	12.1	12.1	14.0	15.1		
						0.2	195.7	28.9	28.9	20.4	20.3	7.6	7.6	72.4	72.9	5.0	5.0	4.7	8.5	8.4	7.7	7.9		
						0.2	195.7	29.0	28.9	20.2	20.3	7.6	7.6	73.4	72.9	5.1	5.0	4.7	8.2	8.4	8.0	7.9		
IM18	Cloudy	Calm	14:00	17.5	M	0.3	63.2	28.1	28.1	23.9	23.9	7.6	7.6	63.0	63.9	4.3	4.4	4.4	7.5	6.7	7.5	8.0		
						0.3	106.4	28.1	28.1	23.8	23.9	7.6	7.6	64.8	63.9	4.4	4.4	4.4	5.9	6.7	8.1	8.0		
						0.5	172.8	27.3	27.2	27.6	27.7	7.5	7.5	54.4	53.3	3.7	3.6	3.6	30.5	31.1	23.3	24.5		
					B	0.5	165.9	27.2	27.2	27.8	27.7	7.5	7.5	52.3	53.3	3.6	3.6	3.6	31.7	31.1	25.6	24.5		
						0.8	203.9	29.3	29.1	21.0	21.3	7.6	7.6	70.2	69.8	4.8	4.8	4.4	11.0	10.2	10.6	10.5		
						0.8	203.9	28.9	28.9	21.6	21.3	7.6	7.6	69.4	69.8	4.8	4.8	4.4	9.3	10.2	10.4	10.5		
IM19	Cloudy	Calm	13:33	18.0	M	1.0	190.6	28.1	28.1	24.8	24.8	7.6	7.6	59.5	59.6	4.1	4.1	4.4	31.9	31.1	30.4	30.1		
						0.8	186.3	28.1	28.1	24.8	24.8	7.6	7.6	59.7	59.6	4.1	4.1	4.4	30.4	31.1	29.8	30.1		
						0.3	77.4	27.0	27.0	28.2	28.2	7.6	7.6	56.6	55.9	3.9	3.8	3.8	27.9	28.2	36.5	36.1		
					B	0.3	77.4	27.0	27.0	28.2	28.2	7.5	7.5	55.3	55.9	3.8	3.8	3.8	28.4	28.2	35.6	36.1		
						1.3	265.7	29.5	29.6	17.5	17.2	7.7	7.7	75.0	75.2	5.2	5.2	5.2	6.4	6.2	5.7	5.7		
						0.6	270.0	29.6	29.6	17.0	17.2	7.7	7.7	75.5	75.2	5.2	5.2	5.2	6.0	6.2	5.7	5.7		
IM20A	Cloudy	Calm	12:18	5.0	B	0.7	210.0	28.4	28.3	23.8	24.0	7.6	7.6	69.3	66.5	4.7	4.5	4.5	13.3	14.7	15.0	15.9		
						0.3	184.5	28.3	28.3	24.1	24.0	7.6	7.6	63.7	66.5	4.3	4.5	4.5	16.0	14.7	16.7	15.9		
						0.7	199.9	29.5	29.5	18.4	18.8	7.7	7.7	72.7	72.6	5.0	5.0	5.0	15.5	14.9	12.2	11.8		
					S	0.7	199.9	29.4	29.5	19.1	18.8	7.7	7.7	72.5	72.6	5.0	5.0	5.0	14.3	14.9	11.4	11.8		
						0.4	229.8	28.2	28.2	24.4	24.4	7.6	7.6	60.8	60.4	4.1	4.1	4.1	50.0	51.2	29.9	28.7		
						0.4	229.8	28.2	28.2	24.4	24.4	7.6	7.6	60.1	60.4	4.1	4.1	4.1	52.4	51.2	27.4	28.7		
IM22A	Cloudy	Calm	12:32	5.0	S	0.9	197.3	30.4	30.4	21.9	21.7	7.7	7.7	75.1	74.8	5.0	5.0	5.0	30.3	31.5	16.7	16.4		
						1.2	230.0	30.3	30.4	21.5	21.7	7.7	7.7	74.5	74.8	5.0	5.0	5.0	32.6	31.5	16.0	16.4		
						0.1	116.4	29.9	29.9	23.1	23.1	7.7	7.7	78.6	75.2	5.2	5.0	5.0	32.0	34.4	12.8	12.5		
					B	0.1	116.4	29.9	29.9	23.1	23.1	7.7	7.7	78.6	75.2	5.2	5.0	5.0	32.0	34.4	12.8	12.5		
						0.3	261.1	30.0	30.0	23.0	23.1	7.7	7.7	71.9	75.2	4.8	5.0	5.0	36.8	34.4	12.1	12.5		
						0.3	261.1	30.0	30.0	23.0	23.1	7.7	7.7	71.9	75.2	4.8	5.0	5.0	36.8	34.4	12.1	12.5		

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/08/19

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)								
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*					
E1	Fine	Calm	06:12	8.5	S	0.2	134.2	27.2	27.2	28.0	28.0	7.9	7.8	59.7	59.9	4.1	4.1	4.0	2.7	2.7	3.2	4.0	3.8	5.8					
						0.3	195.2	27.2		28.0		7.8		60.1		4.1		2.8											
						0.3	204.3	27.0		29.2		7.9		57.7		3.9		4.0											
					M	0.3	204.3	27.0	29.2	29.2	7.9	7.9	57.6	57.7	3.9	3.9	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	5.5	5.4	
						0.9	230.0	26.8	29.9	29.9	8.0	8.0	59.4	58.6	4.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	7.9	8.3		
						0.1	15.5	26.8	29.9	29.9	8.0	8.0	57.9	58.6	3.9	3.9	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	8.6				
E3	Fine	Calm	10:15	17.0	S	0.6	289.3	28.3	28.3	23.5	23.7	8.0	8.0	78.9	79.5	5.4	5.4	2.7	2.6	2.7	4.6	7.4	7.2	20.3					
						0.6	305.2	28.3		23.9		8.0		80.1		5.5		2.6		7.0									
						0.6	308.8	27.1		30.7		8.0		55.3		3.7		4.1		9.6									
					M	0.7	303.8	27.1	30.8	30.8	8.0	8.0	55.5	55.4	3.7	3.7	4.6	3.8	3.5	3.8	12.2	3.8	3.8	3.8	9.2	44.4			
						0.4	287.9	25.9	33.6	33.6	7.9	7.9	43.2	42.8	2.9	2.9	2.9	29.8	30.3	29.8	45.3								
						0.5	313.3	25.9	33.6	33.6	7.9	7.9	42.4	42.8	2.9	2.9	2.9	30.8	30.3	30.8	43.5								
E4	Cloudy	Calm	07:19	11.5	S	0.3	122.3	28.5	28.5	16.6	16.6	7.9	7.9	77.0	77.9	5.5	5.5	5.5	5.4	5.5	4.9	4.3	4.3	6.8					
						0.3	122.3	28.5		16.6		7.9		78.8		5.6		5.2											
						0.5	184.6	28.0		25.5		7.9		61.7		4.2		7.5											
					M	0.5	306.8	28.0	25.3	25.4	7.9	7.9	62.6	62.1	4.3	4.2	4.9	7.4	7.3	7.4	10.0	7.4	7.4	7.4	6.0	6.0			
						0.6	350.8	27.5	27.5	27.5	7.8	7.8	56.2	56.4	3.8	3.8	3.8	18.1	17.2	18.1	10.5								
						0.5	49.0	27.3	28.7	28.1	7.8	7.8	56.6	56.4	3.8	3.8	3.8	16.3	17.2	16.3	9.9	10.2							
E5	Cloudy	Calm	08:26	5.5	S	0.5	2.5	28.9	28.9	16.6	16.5	7.8	7.8	75.8	75.8	5.3	5.3	5.3	5.1	5.3	5.3	4.2	4.3	6.1					
						0.6	326.6	28.9		16.5		7.8		75.9		5.3		5.0											
						0.7	3.5	28.9		19.4		19.5		7.8		7.8		76.9		76.4		5.3			5.3	5.3	7.6	7.7	7.6
					B	0.6	350.4	28.9	19.7	19.5	7.8	7.8	75.8	76.4	5.2	5.3	5.3	7.6	7.7	5.2	7.7	8.0							
						E6	Cloudy	Calm	10:18	S	1.6	6.9	28.9	29.0	19.5	19.0	7.8	7.8	64.4	66.7	4.5	4.6	4.8	4.7	4.8	4.3	6.2	6.6	13.9
											1.6	6.9	29.1		18.4		7.8		69.0		4.8		4.5						
1.1	356.8	28.0	24.7	7.7	59.1						4.0	12.0																	
M	1.1	322.0	28.1	24.7	24.7					7.7	7.7	59.5	59.3	4.1	4.0	4.3	11.2	10.5	11.2	11.5									
	1.1	17.3	27.8	25.7	25.7					7.8	7.8	58.5	58.0	4.0	3.9	3.9	18.7	19.0	4.0	11.2	11.5								
	1.1	17.3	27.8	25.7	25.7					7.8	7.8	57.5	58.0	3.9	3.9	3.9	19.3	19.0	3.9	11.2	23.6								
F1	Fine	Calm	07:08	20.4	S	0.3	276.2	27.1	27.1	29.1	28.8	7.9	7.9	59.4	60.4	4.0	4.1	2.7	2.6	2.7	3.5	2.8	3.1	5.1					
						0.4	355.0	27.2		28.6		7.9		61.5		4.2		2.5											
						0.3	255.6	26.4		33.6		33.6		7.9		7.9		43.8		43.9		2.9			2.9	3.5	1.6	1.6	5.2
					M	0.1	278.0	26.4	33.6	33.6	7.9	7.9	44.1	43.9	2.9	2.9	3.5	1.5	1.6	5.6									
						0.3	293.7	24.6	34.2	34.2	7.9	7.9	43.9	43.7	3.0	3.0	3.0	7.0	7.2	3.0	6.7								
						0.3	293.7	24.6	34.2	34.2	7.9	7.9	43.5	43.7	3.0	3.0	3.0	7.4	7.2	3.0	7.1								
F2	Fine	Calm	07:36	19.5	S	0.2	233.8	27.5	27.5	28.1	28.1	8.0	8.0	68.8	69.0	4.6	4.7	1.9	1.9	1.9	4.3	2.4	2.7	6.4					
						0.2	233.8	27.5		28.1		8.0		69.3		4.7		1.9											
						0.1	307.3	27.2		33.3		33.3		8.0		8.0		59.6		60.5		3.9			4.0	4.3	1.0	0.9	5.0
					M	0.1	307.3	27.3	33.2	33.3	8.0	8.0	61.5	60.5	4.1	4.0	4.3	0.8	0.9	4.4									
						0.3	22.8	24.5	34.2	34.2	7.9	7.9	44.1	43.7	3.0	3.0	3.0	8.0	8.3	3.0	8.0								
						0.7	281.9	24.5	34.2	34.2	7.9	7.9	43.3	43.7	3.0	3.0	3.0	8.6	8.3	3.0	11.3								

Water Quality Monitoring Data Log Sheet

Date: 2019/08/19

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Fine	Calm	08:54	18.0	S	0.4	322.9	28.0	28.0	27.0	27.0	8.1	8.1	92.3	93.5	6.2	6.3	4.6	1.0	1.0	4.0	1.6	1.5	5.6
						0.5	309.7	28.0	27.1	27.1	8.2	8.2	94.7	94.7	6.4	6.4	4.6	1.0	1.0	1.3		1.3		
						0.2	348.3	25.9	25.9	33.8	33.8	7.9	7.9	42.8	44.0	2.9	3.0	4.6	2.6	2.3		2.3	2.4	
					M	0.2	310.3	26.0	25.2	33.8	34.2	7.9	7.9	45.3	38.8	3.0	2.6	2.6	2.1	8.6	4.0	2.5	2.5	12.8
						0.5	61.0	25.2	25.2	34.2	34.2	7.9	7.9	39.6	38.8	2.7	2.6	2.6	2.1	8.6		13.0	12.8	
						0.3	16.6	25.2	25.2	34.2	34.2	7.9	7.9	38.0	38.8	2.6	2.6	2.6	2.1	8.6		12.6	12.8	
F4	Fine	Calm	10:51	14.0	S	0.5	243.0	28.1	28.1	28.4	28.4	8.2	8.2	92.0	94.1	6.1	6.3	4.6	2.4	2.2	7.8	3.4	3.2	11.8
						0.5	281.0	28.1	28.1	28.4	28.4	8.2	8.2	96.3	94.1	6.4	6.3	4.6	2.1	2.2		2.9	3.2	
						0.7	299.8	26.9	26.9	32.2	32.2	7.9	7.9	43.1	43.1	2.9	2.9	2.6	4.8	4.3		4.8	5.2	
					M	0.4	279.8	26.9	26.9	32.3	32.2	7.9	7.9	43.1	43.1	2.9	2.9	2.6	3.9	4.3	7.8	5.5	5.2	27.0
						0.2	52.5	25.9	25.9	33.8	33.8	7.9	7.9	39.8	38.6	2.7	2.6	2.6	17.0	17.0		25.9	27.0	
						0.1	36.9	25.9	25.9	33.8	33.8	7.9	7.9	37.4	38.6	2.5	2.6	2.6	17.0	17.0		28.0	27.0	
F5	Cloudy	Calm	07:51	5.5	S	0.9	353.6	28.5	28.5	22.4	22.3	7.9	7.9	69.5	70.6	4.8	4.8	4.8	7.9	7.2	7.4	5.9	5.8	6.7
						0.7	324.7	28.5	28.2	22.2	22.3	7.9	7.9	71.7	70.6	4.9	4.8	4.8	6.5	7.2		5.6	5.8	
					B	0.6	345.9	28.2	28.2	24.3	24.5	7.9	7.9	67.5	66.0	4.6	4.5	4.5	7.8	7.6	7.4	7.6	7.7	7.7
						0.6	345.9	28.2	28.2	24.7	24.5	7.9	7.9	64.6	66.0	4.4	4.5	4.5	7.5	7.6		7.7	7.7	
F6	Cloudy	Calm	09:02	14.5	S	0.4	209.1	29.1	29.1	17.9	17.9	7.8	7.8	73.3	73.8	5.1	5.1	4.9	4.8	4.7	11.4	4.1	4.1	10.9
						0.4	209.1	29.1	29.1	17.9	17.9	7.8	7.8	74.4	73.8	5.2	5.1	4.9	4.7	4.7		4.0	4.1	
						0.7	268.7	28.3	28.3	23.0	22.9	7.8	7.8	67.1	67.2	4.6	4.6	4.6	5.8	5.8		6.4	6.1	
					M	0.7	316.0	28.4	28.3	22.9	22.9	7.8	7.8	67.3	67.2	4.6	4.6	4.6	5.9	5.8	11.4	5.7	5.7	22.5
						0.3	226.8	27.7	27.7	25.8	25.8	7.8	7.8	60.8	60.6	4.1	4.1	4.1	23.3	23.8		21.5	22.5	
						0.5	345.6	27.7	27.7	25.9	25.9	7.8	7.8	60.3	60.6	4.1	4.1	4.1	24.2	23.8		24.2	22.5	
IM1	Fine	Calm	06:50	9.8	S	0.2	7.4	27.7	27.8	29.8	29.7	7.9	7.9	63.2	65.1	4.2	4.3	3.6	2.6	2.6	2.3	2.4	2.5	3.1
						0.4	314.7	27.8	27.8	29.7	29.7	7.9	7.9	66.9	65.1	4.5	4.3	3.6	2.6	2.6		2.5	2.5	
						0.2	15.5	26.4	26.4	33.4	33.4	7.9	7.9	44.4	44.5	3.0	3.0	3.0	1.7	1.7		3.1	3.1	
					M	0.1	231.8	26.4	26.4	33.5	33.4	7.9	7.9	44.5	44.5	3.0	3.0	3.0	1.6	1.7	2.3	3.0	3.0	3.9
						0.3	341.7	25.8	25.7	33.7	33.7	7.9	7.9	44.9	44.2	3.0	3.0	3.0	2.5	2.7		3.6	3.9	
						0.3	341.7	25.6	25.7	33.7	33.7	7.9	7.9	43.5	44.2	2.9	3.0	3.0	2.9	2.7		4.1	3.9	
IM2	Fine	Calm	06:29	11.0	S	0.5	199.1	27.3	27.3	27.4	27.4	7.8	7.8	61.9	62.0	4.2	4.2	3.8	2.4	2.4	4.1	3.6	3.3	6.2
						0.5	199.1	27.3	27.3	27.4	27.4	7.8	7.8	62.2	62.0	4.2	4.2	3.8	2.4	2.4		3.0	3.3	
						0.2	229.5	26.9	26.9	30.6	30.6	7.8	7.8	48.3	49.6	3.3	3.3	3.8	3.8	3.7		7.0	6.6	
					M	0.2	229.5	26.9	26.9	30.5	30.6	7.8	7.8	50.9	49.6	3.4	3.3	3.8	3.5	3.7	4.1	6.1	6.6	13.5
						0.3	51.4	25.9	25.9	33.6	33.6	7.8	7.8	37.2	35.3	2.5	2.4	2.4	6.1	6.4		8.5	8.7	
						0.3	51.4	25.9	25.9	33.6	33.6	7.8	7.8	33.4	35.3	2.2	2.4	2.4	6.6	6.4		8.8	8.7	
IM3	Fine	Calm	07:58	15.0	S	0.4	269.2	27.5	27.5	28.0	28.0	8.0	8.0	70.4	71.1	4.8	4.8	3.8	2.1	2.1	4.8	2.9	2.9	7.9
						0.3	264.7	27.5	27.5	28.0	28.0	8.0	8.0	71.7	71.1	4.8	4.8	3.8	2.1	2.1		2.9	2.9	
						0.2	278.0	26.8	26.8	32.0	32.2	7.9	7.9	44.3	43.2	3.0	2.9	3.8	3.5	3.5		7.1	7.3	
					M	0.1	203.0	26.7	26.8	32.4	32.2	7.9	7.9	42.2	43.2	2.8	2.9	3.8	3.5	3.5	4.8	7.5	7.3	13.5
						0.5	274.1	25.4	25.4	34.1	34.1	7.9	7.9	41.3	40.3	2.8	2.7	2.7	8.7	8.9		13.6	13.5	
						0.5	274.1	25.4	25.4	34.1	34.1	7.9	7.9	39.4	40.3	2.7	2.7	2.7	9.0	8.9		13.4	13.5	
IM4	Fine	Calm	08:17	16.5	S	0.5	266.2	27.3	27.3	28.4	28.4	8.0	8.0	70.4	71.0	4.8	4.8	3.7	1.7	1.7	6.1	3.1	3.0	9.2
						0.4	281.4	27.3	27.3	28.4	28.4	8.0	8.0	71.6	71.0	4.8	4.8	3.7	1.7	1.7		2.8	3.0	
						0.4	278.3	26.5	26.5	33.1	33.1	7.9	7.9	38.3	38.0	2.6	2.5	2.7	5.7	5.7		8.7	8.7	
					M	0.2	247.2	26.5	26.5	33.2	33.1	7.9	7.9	37.8	38.0	2.5	2.5	2.7	5.7	5.7	6.1	8.7	8.7	15.9
						0.3	254.0	26.0	26.0	33.9	33.8	7.9	7.9	40.5	39.8	2.7	2.7	2.7	10.3	10.8		15.2	15.9	
						0.3	281.0	26.0	26.0	33.8	33.8	7.9	7.9	39.0	39.8	2.6	2.7	2.7	11.4	11.4		16.5	15.9	
IM5	Fine	Calm	08:36	15.5	S	0.5	271.7	27.9	27.9	28.2	28.2	8.1	8.1	83.7	84.6	5.6	5.7	4.8	1.4	1.3	3.9	2.0	2.0	6.4
						0.2	271.5	27.9	27.9	28.2	28.2	8.1	8.1	85.6	84.6	5.7	5.7	4.8	1.3	1.3		2.0	2.0	
						0.5	294.4	27.3	27.3	32.9	32.9	8.0	8.0	57.2	58.1	3.8	3.8	3.8	1.3	1.1		3.5	3.5	
					M	0.5	294.4	27.3	27.3	32.9	32.9	8.0	8.0	59.0	58.1	3.9	3.8	3.8	1.0	1.1	3.9	3.4	3.5	13.8
						0.2	163.6	25.5	25.5	34.1	34.1	7.9	7.9	40.2	39.3	2.7	2.7	2.7	9.1	9.4		13.1	13.8	
						0.4	283.5	25.5	25.5	34.1	34.1	7.9	7.9	38.4	39.3	2.6	2.7	2.7	9.6	9.4		14.4	13.8	

Water Quality Monitoring Data Log Sheet

Date: 2019/08/19

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)						
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*			
IM15	Cloudy	Calm	08:14	6.5	S	0.6	359.8	28.7	28.7	20.7	20.7	7.9	7.9	68.7	70.6	4.7	4.9	4.4	7.0	6.4	7.6	7.8	16.6				
						0.6	72.3	28.7		20.6		7.8		72.6		5.0		5.9	7.9								
						1.2	11.6	28.0	26.0	25.5	7.8	7.8	58.5	59.2	4.0	4.0	4.4	13.3	12.3	9.7	15.7	16.5					
					M	0.3	104.1	28.1	25.1	26.3	7.9	7.9	76.0	74.6	5.2	5.1	5.1	11.3	10.4	9.8	25.5	25.8					
						0.6	220.2	27.9	26.3		7.9		73.2		5.0		11.0	25.2									
						0.5	356.8	27.9	26.3		7.9		73.2		5.0		11.0	25.2									
IM16A	Cloudy	Calm	08:38	7.0	S	0.4	38.0	28.8	28.8	18.1	18.1	7.8	7.8	74.4	74.6	5.2	5.2	5.1	8.8	7.8	11.4	11.7	30.5				
						0.4	38.0	28.8		18.1		7.8		74.4		5.2		6.9	12.0								
						0.6	359.4	28.7	21.0	21.0	7.8	7.8	71.8	71.8	5.0	4.9	5.1	34.5	32.2	24.2	37.7	36.8					
					M	0.6	84.8	28.7	20.9	21.0	7.8	7.8	71.7	75.3	4.9	5.2	5.2	29.9	32.5	35.9	43.1	42.1					
						0.2	48.2	28.7	21.0		7.8		75.3		5.2		32.4	44.0									
						0.3	0.6	28.7	21.1		7.8		75.3		5.2		32.5	44.0									
IM17	Cloudy	Calm	09:41	5.5	S	0.5	51.1	29.0	29.0	16.3	16.1	7.8	7.8	74.6	74.9	5.2	5.3	5.3	5.0	5.0	10.5	10.5	23.0				
						0.1	359.2	29.0		15.9		7.8		75.2		5.3		5.0	10.5								
						B	1.2	295.9	28.7	20.1	20.3	7.7	7.7	75.0	72.6	5.2	5.0	5.0	27.0	28.1	34.4	35.5		36.6			
					1.2		357.2	28.7	20.6	7.7		70.2		4.9		29.2		36.6									
					0.6		72.6	29.1	14.5	14.3		7.8		7.8		71.7		73.2	5.1		5.2			4.6	5.2	5.1	4.5
					M	0.6	72.6	29.2	14.0		7.8	74.7	5.3		5.0	4.6											
1.0	284.2	28.1	24.7	24.7		7.7	7.7	58.6	59.3		4.0	4.0	4.6		6.6	6.6	29.1		6.3	6.4							
0.8	322.1	28.1	24.6	27.3		7.7	7.7	59.9	50.1	4.1	3.4	3.4	6.6	75.6	6.5	37.8	37.7										
B	0.3	11.3	27.3		27.8	7.7		50.2		3.4		79.0	37.9														
	0.2	330.0	27.3		27.7	7.7		50.1		3.4		72.2	37.9														
	IM19	Cloudy	Calm	09:58	18.0	S	0.3	236.3	29.2	29.2	17.1	17.2	7.8	7.8	75.1	75.5	5.2	5.3	4.9	4.8	4.9	4.5	4.4	10.5			
0.6							325.7	29.2	17.2		7.8		75.9		5.3		5.0		4.3								
M							1.3	340.1	28.5	22.2	22.2	7.8	7.8	67.2	67.5	4.6	4.6	4.4	5.5	5.5	6.3	6.3	6.2				
						0.6	325.5	28.5	22.2	7.8		67.8		4.7		5.5		6.2									
						0.3	277.4	26.8	29.3	29.3		7.7		7.7		56.7		53.7	3.9		3.7		3.7		52.3	55.2	19.6
B						0.5	23.2	26.7	29.4		7.7	50.8	3.5		58.1	21.9											
	0.9	59.0	28.7	22.2	22.6	7.8	7.8	64.0	63.9		4.4	4.4	4.4		10.3	10.1	11.3		12.7	11.9							
	0.9	175.3	28.6	23.1	24.7	7.8	7.8	63.8	59.6	4.4	4.1	4.1	9.9	12.5	11.0	16.2	15.6										
IM20A	Cloudy	Calm	10:57	5.0		S		0.2		350.4		28.1	24.7		24.7		7.8	7.8	60.0	59.6	4.1	4.1	4.1	12.6	12.5	16.7	16.2
								0.4		189.0		28.1	24.8		7.8		59.3	4.0	12.4	15.6							
					1.4		255.2	29.8	17.7	18.5	7.8	7.8	76.0	76.6	5.2	5.2	5.2	11.8	12.8	24.6	11.3	11.9					
IM21A	Cloudy	Calm	10:47	5.5	S	0.2	202.4	30.0	19.3	25.3	7.8	7.7	77.2	61.6	5.3	4.2	4.2	13.8	36.4	23.3	22.6						
						0.3	261.2	27.9	25.4		7.7		61.7		4.2		36.3	21.8									
						0.3	261.2	28.0	25.2		7.7		61.5		4.2		36.4	21.8									
IM22A	Cloudy	Calm	10:41	5.5	S	1.3	166.9	29.0	28.9	19.7	19.8	7.8	7.8	70.2	70.2	4.8	4.8	4.8	13.5	13.9	14.1	14.9	18.7				
						0.2	326.9	28.9		20.0		7.8		70.2		4.8		14.2	15.7								
					B	0.1	160.4	28.4	23.3	23.3	7.8	7.8	68.1	68.1	4.7	4.7	4.7	18.5	18.5	22.6	22.5	22.4					
						0.1	171.0	28.4	23.3		7.8		68.1		4.7		18.5	22.4									

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; S: 1 m above the seabed

Monitoring results obtained at stations E2 and E7 during mid-flood tide were discarded as they were sampled outside the planned tidal periods.

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)																			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*																
E1	Fine	Calm	0.7	8.5	S	1.2	292.8	28.6	28.6	29.2	29.2	8.4	8.4	193.6	194.5	12.8	12.8	2.0	1.9	9.6	3.3	6.1	4.7	4.7	7.2															
						0.1	12.1	28.6		29.2		8.4		195.5		12.9		1.9																						
						0.4	141.8	27.1	29.4	8.0	93.1	6.3	1.8																											
					0.4	141.8	27.0	29.4	8.0	93.6	6.3	1.8																												
					M	0.2	1.9	26.4	26.4	31.4	31.5	7.9	7.9	62.5	62.3	4.2	4.2	6.0	6.0				2.0			2.0	11.6	4.8	10.3	4.3	4.5	6.9								
						0.5	172.4	26.4		31.5		7.9		62.0		4.2		6.0																						
B	0.2	85.0	29.9	29.9		28.4	28.4	8.4	8.4	220.5	220.3	14.3	14.3	2.0	2.0	3.6	3.6	10.3	4.3	4.5	6.9																			
	0.2	91.0	29.9		28.4	8.4		220.1		14.3		2.0																												
	0.1	78.0	28.4	28.4	29.0	8.1	8.1	135.5	9.0	8.9	2.1	2.2																												
E2	Cloudy	Moderate	0.7	8.5	M	0.1	82.0	28.4	28.4	29.1	29.0	8.1	8.1	134.7	135.1	8.9	8.9	2.3	2.3	11.6	4.8	10.3	6.7	6.7	6.9															
						0.2	81.0	27.6		30.6		7.8		54.4		3.6		10.2																						
						0.2	83.0	27.5	30.6	7.8	53.9	3.6	10.4																											
					S	0.1	110.0	28.4	28.4	28.5	28.4	8.1	8.1	137.5	137.5	9.1	9.1	2.0	2.0				6.3			6.6	10.5	6.0	6.2	8.2										
						0.1	116.0	28.4		28.4		8.1		137.4		9.1		2.0																						
						0.4	122.0	26.6	26.6	31.9	32.0	7.8	7.8	52.6	52.6	3.5	3.5	7.1	7.1																					
M	0.4	125.0	26.5	26.5	32.1	32.1	7.8	7.8	52.5	52.5	3.5	3.5	7.1	7.1	3.0	3.0	10.5	8.5	8.3	6.7																				
	0.5	123.0	25.6		33.9		7.8		44.6		3.0		10.3																											
	0.5	125.0	25.6	33.9	7.8	44.8	3.0	10.7																																
E3	Cloudy	Moderate	0.6	16.8	B	0.5	125.0	25.6	25.6	33.9	33.9	7.8	7.8	44.6				44.7			3.0	3.0	10.3	10.3	6.3	6.6	10.5	10.1	10.3	8.2										
						0.5	125.0	25.6		33.9		7.8		44.8							3.0		10.7																	
						S	0.3	193.0	29.6	29.7	20.9	20.8	7.8	7.8				83.6			83.5	5.7	5.7	2.5				2.5			4.4	7.2	7.2	5.5	5.3	6.7				
					0.3		196.0	29.7	20.8		7.8		83.4		5.7	2.5																								
					0.4		220.0	26.3	26.3	32.6	32.6	7.8	7.8	46.0	45.9	3.1	3.1	7.2	7.2																					
					E4	Cloudy	Moderate	0.6	12.3	M	0.4	239.0	26.3	26.3	32.7	32.6	7.8	7.8	45.8	45.9	3.1	3.1	7.2	7.2				4.4						7.2			7.2	6.5	6.3	6.7
0.4	239.0	26.3	32.7	7.8							45.8	3.1	7.2																											
B	0.3	207.0	26.0	26.0							33.6	33.6	7.8	7.8	47.2	47.2	3.2	3.2	11.9	11.9	3.2	3.2	11.9	8.0	8.4	6.7														
	0.3	227.0	26.0							33.6	7.8		47.2		3.2		11.9																							
	1.2	64.5	30.3	30.4						18.1	18.0	8.0	8.0	86.8	93.7	5.9	6.4	6.4	6.4	6.4				4.6			3.0		3.7	3.4	5.4									
0.5	163.0	30.5	17.9							8.0		100.7		6.8		2.8																								
E5	Cloudy	Calm	0.7	5.5	S	0.3	234.4	27.7	27.7	27.0	27.0	7.9	7.9	61.2	60.3	4.1	4.1	6.2	6.2									4.1	4.1			6.2	7.7	7.5	5.4					
						0.4	118.6	27.7		27.0		7.9		59.5		4.0		6.1																						
						B	1.2	246.3	29.7	29.7	18.9	18.9	7.9	7.9	84.5	85.4	5.8	5.9	4.1		3.8	5.6	5.6		4.5	7.0							6.5			8.0				
					0.4		105.5	29.7	19.0		7.9		86.3		5.9		3.5																							
					M		0.2	139.3	29.2	29.0	20.9	21.5	7.9	7.9	78.6	77.2	5.4	5.3	4.4	4.5	4.4			4.4		3.9	8.4			8.6	8.0									
						0.3	161.1	28.8	22.1		7.9		75.7		5.2		4.7																							
0.5	32.4	27.6	27.7	26.2		25.8	7.8	7.8	63.9	63.8	4.4	4.4	4.2	3.9	4.4	4.4	3.9	9.4	9.0	8.0																				
0.5	32.4	27.8		25.5	7.8		63.8		4.4		3.6																													
E6	Cloudy	Calm	0.6	6.0	S	0.3	114.9	30.3	30.3	17.7	17.7	7.8	7.8	74.6				80.0				5.1	5.5		4.9		4.6	5.5	5.5			4.6	7.8	8.3	8.9					
						0.9	209.1	30.3		17.8		7.8		85.4								5.8			4.3															
						B	0.3	345.7	27.5	27.4	26.8	27.1	7.7	7.7				65.5			61.7	4.5	4.2	4.6	5.2	4.2	4.2			5.2	9.2		9.6			8.9				
					0.8		47.8	27.3	27.3		7.7		58.0					4.0				5.7																		
					E7A		Cloudy	Calm	0.6	5.5	S	0.4	150.0	29.2	29.2	29.2	29.2	8.5	8.5	206.3	208.2	13.5	13.6	0.8	0.8						9.2						9.2	0.8	7.4	7.8
						0.5						72.2	29.2	29.2		8.5		210.1		13.7		0.8																		
M	0.2	73.9	27.0	27.0		31.9						31.8	8.0	8.0	67.5	71.4	4.5	4.8	1.1	1.1	2.6	2.6	2.6	15.1	15.1			6.7												
	0.2	73.9	27.1			31.7					8.0		75.3		5.0		2.0																							
	F1	Fine	Calm	0.7		20.0					B	0.3	172.9	24.5	24.5	34.5	34.4	7.9	7.9	38.2				37.2		2.6	2.6		8.0	8.2		2.6	2.6	6.8	15.1	11.0			6.7	
0.2												172.6	24.5	34.4		7.9		36.3		2.5						8.5														
S					0.2		36.3	29.3	29.3	29.0		29.0	8.5	8.5	195.5	197.2	12.8	12.9	0.7	0.8				8.7		8.7	0.6		3.2	3.4	6.7									
					0.2		35.7	29.3		29.0	8.5		199.0		13.0		0.8																							
					M		0.3	91.3	27.1	27.0	33.4	33.4	8.0	8.0	67.0	67.2	4.4	4.4	0.6	0.6	2.6	2.6	6.8		6.2			5.7	6.7											
0.3							91.3	26.9	33.5		8.0		67.4		4.5		0.6																							
B	0.1	45.0	24.8	24.8		34.4	34.4	7.9	7.9	38.8	38.2	2.7	2.6	6.6	6.8	2.6	2.6	6.8	10.9	11.0					6.7															
	0.2	78.3	24.8		34.4	7.9		37.6		2.6		7.0																												

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Fine	Calm	0.6	18.0	S	0.4	30.7	29.3	29.3	28.8	28.8	8.4	8.4	179.7	181.4	11.7	11.9	8.1	1.0	1.0	2.8	6.9	6.7	5.9
						0.4	30.7	29.2	28.8	28.8	8.4	8.4	183.1	183.1	12.0	12.0	8.1	1.0	1.0					
						0.2	31.5	27.1	27.2	32.6	32.5	8.0	8.0	63.1	65.5	4.2	4.3	8.1	0.7	0.7				
					M	0.2	31.5	27.2	27.2	32.5	32.5	8.0	8.0	67.9	65.5	4.5	4.3	8.1	0.6	0.7				
						B	0.1	140.7	25.2	25.2	34.3	34.3	7.9	7.9	42.5	41.6	2.9	2.8	2.8	6.6		6.7		
							0.1	140.7	25.2	25.2	34.3	34.3	7.9	7.9	40.6	41.6	2.8	2.8	2.8	6.8		6.7		
F4	Cloudy	Moderate	0.7	13.3	S	0.7	96.0	30.0	30.0	26.3	26.3	8.3	8.3	200.5	199.9	13.1	13.1	10.1	2.3	2.3	5.6	3.3	3.8	4.2
						0.7	99.0	30.0	30.0	26.3	26.3	8.3	8.3	199.2	199.9	13.0	13.1	10.1	2.4	2.3				
						0.5	85.0	28.2	28.2	29.8	29.9	8.0	8.0	110.0	107.8	7.3	7.1	10.1	4.2	4.2				
					M	0.5	93.0	28.2	28.2	30.0	29.9	8.0	8.0	105.5	107.8	7.0	7.1	10.1	4.2	4.2				
						B	0.3	108.0	26.7	26.7	32.2	32.2	7.8	7.8	49.5	49.7	3.3	3.3	3.3	10.4		10.3		
							0.4	117.0	26.7	26.7	32.2	32.2	7.8	7.8	49.8	49.7	3.3	3.3	3.3	10.3		10.3		
F5	Cloudy	Moderate	0.6	6.7	S	0.1	279.0	29.1	29.1	21.4	21.4	7.9	7.9	81.2	81.1	5.5	5.5	5.1	2.9	2.9	5.3	2.5	3.0	7.8
						0.1	303.0	29.1	29.1	21.3	21.4	7.9	7.9	80.9	81.1	5.5	5.5	5.1	2.9	2.9				
						0.2	81.0	27.9	27.9	28.4	28.4	8.0	8.0	69.5	69.6	4.7	4.7	5.1	4.6	4.6				
					M	0.2	83.0	27.9	27.9	28.4	28.4	8.0	8.0	69.6	69.6	4.7	4.7	5.1	4.6	4.6				
						B	0.1	105.0	27.3	27.3	29.8	29.8	8.0	8.0	58.8	58.9	3.9	3.9	3.9	8.5		8.5		
							0.1	114.0	27.4	27.4	29.8	29.8	8.0	8.0	58.9	58.9	4.0	3.9	3.9	8.5		8.5		
F6	Cloudy	Calm	0.6	14.0	S	0.4	230.6	29.6	29.6	20.8	20.8	8.0	8.0	89.7	91.2	6.1	6.2	5.3	2.5	2.4	5.3	4.1	4.2	10.2
						0.7	144.6	29.6	29.6	20.8	20.8	8.0	8.0	92.7	91.2	6.3	6.2	5.3	2.3	2.4				
						0.2	46.3	27.8	27.9	25.8	25.7	7.9	7.9	62.8	64.3	4.3	4.4	5.3	5.4	5.5				
					M	0.1	116.3	28.0	28.0	25.5	25.7	7.9	7.9	65.8	64.3	4.5	4.4	5.3	5.6	5.5				
						B	0.2	160.8	26.2	26.2	30.2	30.2	7.9	7.9	54.4	53.2	3.7	3.6	3.6	13.2		13.4		
							0.5	152.5	26.2	26.2	30.2	30.2	7.9	7.9	52.1	53.2	3.6	3.6	3.6	13.6		13.4		
IM1	Fine	Calm	0.7	9.5	S	0.2	174.6	28.9	28.9	29.3	29.3	8.5	8.5	208.5	209.0	13.7	13.7	13.3	0.8	0.8	13.3	4.1	4.1	6.4
						0.3	32.2	28.9	28.9	29.3	29.3	8.5	8.5	209.5	209.0	13.7	13.7	13.3	0.8	0.8				
						0.2	197.8	28.8	28.8	29.3	29.3	8.4	8.4	192.6	195.7	12.6	12.8	13.3	1.0	1.0				
					M	0.2	197.8	28.9	28.8	29.3	29.3	8.5	8.4	198.7	195.7	13.0	12.8	13.3	1.0	1.0				
						B	0.1	252.5	25.4	25.4	33.8	33.8	7.9	7.9	50.5	49.9	3.4	3.4	3.4	5.4		5.1		
							0.1	252.5	25.4	25.4	33.8	33.8	7.9	7.9	49.3	49.9	3.3	3.4	3.4	4.8		5.1		
IM2	Fine	Calm	0.7	11.0	S	0.3	189.1	28.2	28.2	29.2	29.2	8.3	8.3	181.1	181.6	12.0	12.0	9.2	1.6	1.5	9.2	4.5	4.7	8.2
						0.4	253.6	28.2	28.2	29.2	29.2	8.3	8.3	182.1	181.6	12.1	12.0	9.2	1.5	1.5				
						0.4	165.3	27.3	27.3	30.5	30.5	8.1	8.1	93.7	94.3	6.3	6.3	9.2	2.4	2.3				
					M	0.4	165.3	27.3	27.3	30.4	30.5	8.1	8.1	94.8	94.3	6.3	6.3	9.2	2.3	2.3				
						B	0.2	191.3	25.5	25.5	33.7	33.7	7.9	7.9	40.5	39.5	2.7	2.7	2.7	4.2		4.3		
							0.2	191.3	25.5	25.5	33.7	33.7	7.9	7.9	38.6	39.5	2.6	2.7	2.7	4.3		4.3		
IM3	Fine	Calm	0.6	8.5	S	0.6	252.8	29.3	29.3	29.0	29.0	8.5	8.5	206.6	208.4	13.5	13.6	8.0	1.2	1.2	8.0	4.5	4.3	6.2
						0.4	9.7	29.3	29.3	29.0	29.0	8.5	8.5	210.3	208.4	13.7	13.6	8.0	1.3	1.2				
						0.2	48.1	26.4	26.4	32.4	32.5	7.8	7.8	35.2	35.5	2.4	2.4	2.4	2.4	2.4				
					M	0.4	115.8	26.4	26.4	32.5	32.5	7.8	7.8	35.8	35.5	2.4	2.4	2.4	2.4	2.4				
						B	0.1	78.2	25.7	25.6	34.1	34.1	7.8	7.8	31.1	30.0	2.1	2.0	2.0	3.2		3.4		
							0.2	90.0	25.6	25.6	34.1	34.1	7.8	7.8	28.8	30.0	1.9	2.0	2.0	3.6		3.4		
IM4	Fine	Calm	0.6	16.5	S	0.2	354.2	29.5	29.6	29.1	29.0	8.5	8.5	189.6	189.4	12.3	12.3	7.6	1.3	1.3	7.6	5.2	4.9	8.4
						0.2	354.2	29.6	29.6	29.0	29.0	8.5	8.5	189.2	189.4	12.3	12.3	7.6	1.3	1.3				
						0.3	288.7	26.8	26.8	31.0	31.0	7.9	7.9	43.7	43.8	2.9	2.9	2.9	3.3	3.4				
					M	0.3	124.0	26.8	26.8	31.1	31.0	7.9	7.9	44.0	43.8	3.0	2.9	2.9	3.4	3.4				
						B	0.3	41.5	25.8	25.8	34.1	34.1	7.9	7.9	34.5	33.8	2.3	2.3	2.3	8.7		8.5		
							0.2	65.9	25.8	25.8	34.1	34.1	7.9	7.9	33.0	33.8	2.2	2.3	2.3	8.3		8.5		
IM5	Fine	Calm	0.6	15.5	S	0.8	132.4	30.0	30.0	28.7	28.7	8.5	8.5	200.3	201.8	12.9	13.0	9.3	0.9	0.9	9.3	4.3	4.2	8.7
						0.4	301.1	30.0	30.0	28.7	28.7	8.5	8.5	203.3	201.8	13.1	13.0	9.3	0.9	0.9				
						0.3	50.1	27.8	27.8	30.1	30.1	8.1	8.0	83.7	83.9	5.6	5.6	5.6	0.8	0.8				
					M	0.2	60.0	27.8	27.8	30.1	30.1	8.0	8.0	84.1	83.9	5.6	5.6	5.6	0.8	0.8				
						B	0.3	143.6	25.6	25.6	34.1	34.1	7.9	7.9	36.8	35.9	2.5	2.4	2.4	10.3		10.1		
							0.3	143.6	25.6	25.6	34.1	34.1	7.9	7.9	35.0	35.9	2.4	2.4	2.4	9.9		10.1		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average
IM6	Fine	Calm	0.6	16.0	S	0.3	302.6	29.7	29.7	28.7	28.7	8.5	8.5	190.5	192.4	12.4	12.5	8.5	0.8	0.8	2.1	3.4	3.6	5.6	
						0.3	302.6	29.7		28.7		8.5		194.3		12.6		4.6							
						0.1	344.2	27.4		31.9		8.0		64.9		4.3		1.0							
					M	0.1	344.2	27.6	31.6	8.0	70.0	4.6	1.0	4.6	4.5	4.6	4.6	4.3	4.5	8.7					
						0.2	97.9	25.4	34.3	7.9	46.1	3.1	4.5	4.6	3.0	3.0	4.6	4.8	8.8	8.7					
						0.2	152.1	25.3	34.3	7.9	43.4	2.9	4.8	4.6	3.0	3.0	4.6	4.8	8.8	8.7					
IM7	Fine	Calm	0.6	8.5	S	0.2	58.8	29.1	29.2	28.4	28.4	8.4	8.4	191.4	194.6	12.6	12.8	10.6	10.6	2.5	1.1	1.0	4.3	4.3	6.8
						0.3	104.0	29.2		28.4		8.4		197.8		13.0		1.0							
						0.5	294.3	28.3		29.1		8.1		123.9		8.2		1.4							
					M	0.2	21.5	28.4	28.3	29.0	8.1	8.1	129.4	8.6	8.4	8.4	1.4	1.4	6.8	6.6					
						0.1	0.7	25.9	25.9	33.8	33.8	7.5	46.8	3.1	3.1	3.1	5.3	5.2	9.5	9.5					
						0.4	339.7	25.9	33.8	7.6	45.2	3.0	3.1	3.1	3.1	5.2	5.2	9.5	9.5						
IM8	Fine	Calm	0.6	15.0	S	0.8	196.0	29.3	29.4	28.2	28.2	8.5	8.5	209.9	212.4	13.8	13.9	9.6	9.6	3.1	1.2	1.2	5.8	5.5	6.5
						0.1	41.3	29.4		28.2		8.5		214.8		14.0		1.1							
						0.1	44.7	27.6		30.5		8.0		76.8		5.1		1.1							
					M	0.1	44.7	27.8	27.7	30.1	8.0	8.0	84.4	5.6	5.4	5.4	1.0	1.1	6.3	6.4					
						0.2	18.9	25.6	25.6	34.1	7.9	7.9	44.5	3.0	2.9	2.9	6.9	7.0	7.6	7.6					
						0.1	92.2	25.6	25.6	34.1	7.9	7.9	42.6	2.9	2.9	2.9	7.1	7.0	7.5	7.6					
IM9	Cloudy	Moderate	0.6	14.7	S	0.2	70.0	29.7	29.8	27.9	27.9	8.3	8.3	213.1	212.1	13.9	13.8	10.8	10.8	4.9	2.0	2.0	5.9	5.9	7.1
						0.2	72.0	29.8		27.9		8.3		211.0		13.7		2.0							
						0.1	87.0	28.1		28.1		29.4		8.0		118.2		7.9			1.9				
					M	0.1	92.0	28.0	28.1	29.4	8.0	8.0	117.5	7.8	7.8	7.8	2.1	2.0	7.2	7.3					
						0.3	148.0	26.8	26.8	31.9	7.9	7.9	67.1	4.5	4.5	4.5	10.6	10.6	8.7	8.3					
						0.3	158.0	26.8	26.8	31.9	7.9	7.9	67.0	4.5	4.5	4.5	10.6	10.6	7.8	8.3					
IM10	Cloudy	Moderate	0.6	12.0	S	0.4	62.0	29.0	29.0	26.7	26.7	8.1	8.1	144.3	144.1	9.6	9.6	7.0	7.0	8.0	3.3	3.3	8.1	8.2	12.3
						0.4	65.0	29.0		26.7		8.1		143.9		9.6		3.3							
						0.6	67.0	26.6		26.6		31.8		7.9		66.3		4.5			4.4				
					M	0.6	71.0	26.5	26.6	32.1	7.9	7.9	63.8	4.3	4.4	4.4	8.7	8.7	8.9	8.7					
						0.4	58.0	26.3	26.3	32.8	7.8	7.8	51.3	3.4	3.4	3.4	12.1	12.1	19.7	19.9					
						0.5	61.0	26.3	26.3	32.8	7.8	7.8	51.5	3.5	3.4	3.4	12.1	12.1	20.1	19.9					
IM11A	Cloudy	Moderate	0.6	5.5	S	0.5	177.0	29.2	29.2	22.2	22.2	8.0	8.0	130.5	130.6	8.9	8.9	8.9	8.9	7.7	5.2	5.3	2.6	2.7	5.6
						0.5	179.0	29.1		22.3		8.0		130.7		8.9		5.4							
						0.6	201.0	28.7		25.4		8.0		128.9		8.7		10.1							
					B	0.6	201.0	28.7	28.7	25.4	8.0	8.0	128.7	8.7	8.7	8.7	10.1	10.1	8.2	8.5					
						0.3	122.0	30.4	30.4	23.1	8.1	8.1	138.8	9.2	9.2	9.2	1.7	1.7	4.7	4.4					
						0.3	127.0	30.4	30.4	23.1	8.1	8.1	138.5	9.2	9.2	9.2	1.7	1.7	4.1	4.4					
IM12	Cloudy	Moderate	0.6	14.3	M	0.2	152.0	27.3	27.3	30.4	30.4	7.8	7.8	70.8	70.7	4.7	4.7	7.0	7.0	5.3	4.5	4.5	6.4	6.4	6.4
						0.2	166.0	27.2		30.4		7.8		70.5		4.7		4.6							
						0.2	138.0	26.7		31.9		7.8		57.5		3.9		9.6							
					B	0.2	149.0	26.8	26.8	31.8	7.8	7.8	57.8	3.9	3.9	3.9	9.6	9.6	8.8	8.5					
						0.2	176.0	29.4	29.4	19.9	7.9	7.9	85.6	5.9	5.9	5.9	2.4	2.4	3.4	3.5					
						0.2	183.0	29.4	29.4	19.9	7.9	7.9	85.3	5.8	5.9	5.9	2.4	2.4	3.5	3.5					
IM13	Cloudy	Moderate	0.6	14.7	S	0.2	228.0	26.1	26.1	33.2	33.2	7.8	7.8	43.5	43.5	2.9	2.9	4.4	4.4	6.8	7.4	7.4	5.9	5.7	5.2
						0.2	230.0	26.1		33.2		7.8		43.5		2.9		7.4							
						0.3	198.0	26.0		33.4		7.8		44.0		3.0		10.5							
					M	0.3	198.0	26.0	26.0	33.4	7.8	7.8	44.1	3.0	3.0	3.0	10.5	10.5	6.4	6.3					
						0.3	198.0	26.0	26.0	33.4	7.8	7.8	44.2	3.0	3.0	3.0	10.5	10.5	6.2	6.3					
						0.4	225.0	28.9	28.9	22.3	7.9	7.9	102.2	7.0	7.0	7.0	2.3	2.3	3.3	3.2					
IM14	Cloudy	Moderate	0.6	11.4	S	0.5	227.0	28.9	28.9	22.3	22.3	7.9	7.9	102.2	102.2	7.0	7.0	5.2	5.2	7.6	2.3	2.3	5.5	5.6	6.5
						0.5	209.0	26.5		30.0		7.8		52.4		3.6		9.8							
						0.5	211.0	26.5		30.7		7.8		51.6		3.5		9.9							
					M	0.5	211.0	26.5	26.5	30.7	7.8	7.8	51.6	3.5	3.5	3.5	9.9	9.9	5.6	5.6					
						0.5	191.0	26.1	26.1	33.2	7.8	7.8	47.6	3.2	3.2	3.2	10.7	10.7	10.0	10.7					
						0.5	192.0	26.1	26.1	33.2	7.8	7.8	48.0	3.2	3.2	3.2	10.7	10.7	11.3	10.7					

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)					
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*		
IM15	Cloudy	Calm	0.7	6.5	S	0.8	51.8	30.1	30.0	19.9	20.1	8.0	8.0	101.8	101.7	6.9	6.9	5.7	2.3	2.2	5.4	2.8	3.1	6.4		
						0.8	51.8	29.9	20.3	20.3	8.0	8.0	101.6	101.6	6.9	6.9	5.7	2.0	2.2	2.3						
					M	1.8	151.9	27.5	27.8	27.7	26.3	7.9	7.9	61.9	66.5	4.2	4.5	4.3	7.0	6.6		5.4	6.4		6.1	6.4
						1.1	207.7	28.1	27.5	25.0	26.3	7.9	7.9	71.2	66.5	4.8	4.5	4.3	6.1	6.6			5.8			
					B	0.5	162.4	27.5	27.5	27.9	27.9	7.9	7.9	67.3	64.3	4.6	4.3	4.3	7.0	7.5		5.4	10.0		10.2	6.4
						0.1	251.6	27.5	27.5	27.9	27.9	7.9	7.9	61.3	64.3	4.1	4.3	4.3	8.0	7.5			10.3			
IM16A	Cloudy	Calm	0.7	7.5	S	1.0	119.8	30.2	30.3	18.3	18.2	8.0	8.0	92.5	96.1	6.3	6.5	5.9	2.6	2.5	4.6	3.7	3.6	6.4		
						1.0	119.8	30.4	30.3	18.1	18.2	8.0	8.0	99.7	96.1	6.8	6.5	5.9	2.5	2.5		3.4				
					M	0.2	250.9	28.4	28.4	23.5	23.6	7.9	7.9	74.5	76.8	5.1	5.2	4.6	3.1	4.6		4.8	4.9		6.4	
						0.5	246.9	28.4	28.4	23.6	23.6	7.9	7.9	79.0	76.8	5.4	5.2	4.6	3.1			4.6	4.8			
					B	1.4	115.3	27.9	27.8	26.4	26.4	7.9	7.9	71.7	68.3	4.9	4.6	4.6	8.2	4.6		10.6	10.8		6.4	
						0.1	241.4	27.8	27.8	26.4	26.4	7.9	7.9	64.8	68.3	4.4	4.6	4.6	8.2			10.9				
IM17	Cloudy	Calm	0.6	5.5	S	0.4	36.8	29.4	29.6	21.3	20.8	7.9	7.9	86.9	90.4	5.9	6.1	6.1	2.5	2.3	3.5	6.2	6.2	9.9		
						0.9	349.4	29.7	29.6	20.3	20.8	7.9	7.9	94.0	90.4	6.4	6.1	6.1	2.1	2.3		6.2				
					B	0.8	135.2	28.3	28.3	24.1	24.1	7.9	7.9	79.2	74.5	5.4	5.1	5.1	4.4	4.7		13.3	13.5			
						0.5	115.8	28.2	28.3	24.2	24.1	7.9	7.9	69.7	74.5	4.8	5.1	5.1	5.0	4.7		13.7				
IM18	Cloudy	Calm	0.6	17.5	S	1.2	117.4	30.0	30.1	20.7	20.6	7.9	7.9	86.2	90.6	5.8	6.1	5.2	3.0	2.7	14.0	10.4	10.6	6.2		
						0.2	115.7	30.1	30.1	20.5	20.6	7.9	7.9	95.0	90.6	6.4	6.1	5.2	2.3	2.7		10.8				
					M	0.9	176.4	28.0	28.0	25.0	25.0	7.8	7.8	61.2	62.4	4.2	4.2	4.2	6.1	5.4		14.0	5.0		4.8	6.2
						1.1	178.3	28.0	28.0	25.0	25.0	7.8	7.8	63.5	62.4	4.3	4.2	4.2	4.7	5.4			4.6			
					B	0.7	148.0	26.2	26.2	30.2	30.2	7.8	7.8	50.3	48.8	3.4	3.3	3.3	37.7	34.1		14.0	3.0		3.2	6.2
						0.4	146.4	26.2	26.2	30.2	30.2	7.8	7.8	47.3	48.8	3.2	3.3	3.3	30.5	34.1			3.4			
IM19	Cloudy	Calm	0.6	18.0	S	0.5	240.0	29.4	29.4	23.3	23.0	7.8	7.8	73.6	75.0	4.9	5.0	4.6	7.9	7.7	10.0	6.9	6.7	10.3		
						1.0	223.6	29.5	29.4	22.7	23.0	7.8	7.8	76.5	75.0	5.2	5.0	4.6	7.6	7.7		6.4				
					M	0.5	201.1	28.0	28.1	26.4	26.3	7.8	7.8	61.3	62.0	4.1	4.2	4.2	10.2	9.4		10.0	9.3		9.5	10.3
						0.5	201.1	28.1	28.1	26.2	26.3	7.8	7.8	62.8	62.0	4.2	4.2	4.2	8.7	9.4			14.0			
					B	0.5	113.0	26.3	26.3	29.9	29.9	7.8	7.8	55.2	54.1	3.8	3.7	3.7	13.4	12.7		10.0	14.0		14.8	10.3
						0.9	124.2	26.3	26.3	29.9	29.9	7.8	7.8	53.1	54.1	3.6	3.7	3.7	12.0	12.7			15.5			
IM20A	Cloudy	Calm	0.6	4.5	S	0.5	191.7	29.8	29.7	19.8	20.0	7.8	7.8	78.1	79.4	5.3	5.4	5.4	6.0	5.7	7.3	8.4	8.1	10.3		
						1.2	258.9	29.7	29.7	20.2	20.0	7.8	7.8	80.7	79.4	5.5	5.4	5.4	5.5	5.7		7.8				
					B	1.0	242.8	28.1	28.2	25.1	24.7	7.8	7.8	73.9	70.5	5.0	4.8	4.8	8.8	8.8		7.3	12.4		12.5	10.3
						1.0	242.8	28.4	28.2	24.2	24.7	7.8	7.8	67.1	70.5	4.6	4.8	4.8	8.7	8.8			12.5			
IM21A	Cloudy	Calm	0.6	5.0	S	0.4	275.0	29.8	29.6	19.6	20.2	7.8	7.8	77.1	77.1	5.3	5.3	5.3	7.6	7.4	12.5	5.6	5.9	13.6		
						0.4	275.0	29.4	29.6	20.8	20.2	7.8	7.8	77.1	77.1	5.3	5.3	5.3	7.1	7.4		6.1				
					B	0.2	359.0	27.5	27.4	26.7	26.8	7.8	7.8	64.0	61.4	4.4	4.2	4.2	16.3	17.7		12.5	20.2		21.3	13.6
						0.5	146.0	27.4	27.4	26.8	26.8	7.8	7.8	58.8	61.4	4.0	4.2	4.2	19.2	17.7			22.3			
IM22A	Cloudy	Calm	0.6	4.5	S	0.8	223.4	29.5	29.5	25.6	25.7	7.8	7.8	72.3	72.1	4.8	4.8	4.8	19.8	19.3	19.6	24.7	25.0	26.5		
						0.8	223.4	29.4	29.5	25.7	25.7	7.8	7.8	72.0	72.1	4.8	4.8	4.8	18.8	19.3		25.3				
					B	0.7	340.6	29.1	29.1	25.9	25.9	7.8	7.8	72.4	71.5	4.8	4.8	4.8	19.7	19.9		19.6	27.5		27.9	26.5
						0.2	192.8	29.1	29.1	25.9	25.9	7.8	7.8	70.5	71.5	4.7	4.8	4.8	20.2	19.9			28.3			

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: 2019/08/21

Tide: Mid-Flood

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)			Suspended Solids (mg/L)										
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*					
E1	Fine	Calm	07:43	8.5	S	0.1	4.5	27.0	27.0	29.3	29.3	7.7	7.7	78.9	79.7	5.3	5.4	5.0	1.9	1.9	2.1	3.2	3.1	4.4							
						0.2	236.0	27.0		29.3		7.8		80.5		5.4			1.9			3.0									
						0.5	357.4	26.7	29.9	7.5	67.5	4.6	2.2	4.5																	
					M	0.2	196.8	26.7	29.9	29.9	7.6	7.6	67.1	67.3	4.5	4.6	2.2	2.2	4.5												
						0.1	256.0	26.5	26.6	30.7	30.7	7.2	7.3	67.1	69.6	4.5	4.7	2.4	2.3	5.6											
							0.1	256.0		26.7		30.7		7.4		72.0		4.9		2.3		4.6									
E2	Cloudy	Moderate	16:16	8.5	S	0.2	85.0	29.9	29.9	28.4	28.4	8.4	8.4	220.5	220.3	14.3	14.3	11.6	2.0	2.0	4.8	5.0	5.0	3.8							
						0.2	91.0	29.9		28.4		8.4		220.1		14.3			2.0			4.9									
						0.1	78.0	28.4	29.0	8.1	135.5	9.0	2.2	4.1																	
					M	0.1	82.0	28.4	28.4	29.1	29.0	8.1	8.1	134.7	8.9	8.9	2.3	2.2	3.1												
						0.2	81.0	27.6	27.6	30.6	30.6	7.8	7.8	54.4	54.2	3.6	3.6	10.2	10.3	2.8											
							0.2	83.0		27.5		30.6		7.8		53.9		3.6		10.4		3.1									
E3	Cloudy	Moderate	14:59	16.8	S	0.1	110.0	28.4	28.4	28.5	28.4	8.1	8.1	137.5	137.5	9.1	9.1	6.3	2.0	2.0	6.6	0.5	0.8	0.9							
						0.1	116.0	28.4		28.4		8.1		137.4		9.1			2.0			1.0									
						M	0.4	122.0	26.6	26.6	31.9	32.0	7.8	7.8	52.6	52.6	3.5	3.5	7.1	7.1		0.5									
					0.4		125.0	26.5	32.1		7.8		52.5		3.5		7.1		0.5												
					B		0.5	123.0	25.6	25.6	33.9	33.9	7.8	7.8	44.6	44.7	3.0	3.0	10.3	10.5		1.0									
						0.5	125.0	25.6	33.9		7.8		44.8		3.0		10.7		1.9												
E4	Cloudy	Moderate	13:53	12.3		S	0.3	193.0	29.6	29.7	20.9	20.8	7.8	7.8	83.6	83.5	5.7	5.7	4.4	2.5	2.5	7.2	0.5	0.5	0.5						
					0.3		196.0	29.7	20.8		7.8		83.4		5.7		2.5			0.5											
					M		0.4	220.0	26.3	26.3	32.6	32.6	7.8	7.8	46.0	45.9	3.1	3.1	7.2	7.2	0.5										
						0.4	239.0	26.3	32.7		7.8		45.8		3.1		7.2		0.5												
						B	0.3	207.0	26.0	26.0	33.6	33.6	7.8	7.8	47.2	47.2	3.2	3.2	11.9	11.9	0.5										
					0.3		227.0	26.0	33.6		7.8		47.2		3.2		11.9		0.5												
E5	Cloudy	Calm	07:53	5.5	S		0.3	46.9	28.4	28.3	20.7	20.7	7.7	7.7	72.8	73.8	5.1	5.1	5.1	3.6	3.6	5.4	3.5	3.0	4.1						
						0.3	46.9	28.3	20.7		7.7		74.8		5.2		3.5			2.5											
						B	0.1	259.8	27.6	27.6	27.3	27.3	7.7	7.7	60.4	58.8	4.1	4.0	7.3	7.2	4.9										
					0.1		259.8	27.6	27.3		7.7		57.2		3.9		7.1		5.6												
					E6		Cloudy	Calm	09:55	5.5	S	0.3	321.5	29.3	29.2	14.4	14.6	7.7	7.7	70.4	71.0		5.0	5.0		5.0	9.1	8.6	13.0	5.7	5.3
						0.8						350.4	29.2	14.9		7.7		71.7		5.1			8.2				4.8				
B	0.4	319.5	27.8	27.8		25.0						25.0	7.7	7.7	61.1	57.9	4.2	4.0	17.4	17.4	20.3										
	0.4	319.5	27.7			25.1					7.7		54.7		3.7		17.4		19.9												
	E7A	Cloudy	Calm	10:45		5.0					S	1.0	39.6	28.5	28.4	22.1	22.2	7.7	7.7	59.8	60.0	4.1	4.1	4.1	13.7	12.3	17.5	4.5		7.9	14.3
1.0												39.6	28.3	22.4		7.6		60.3		4.1		10.9			11.2						
B					0.5		68.8	27.9	27.9	24.8		24.8	7.7	7.7	61.4	59.5	4.2	4.1	21.7	22.6	19.4										
					0.9		354.6	27.9		24.8	7.7		57.5		3.9		23.6		22.0												
					F1		Fine	Calm	08:35	20.0	S	0.0	39.6	28.3	28.3	29.2	29.2	8.3	8.3	149.0	151.9	9.9	10.1	6.6	0.9	0.9		3.3	0.5	1.0	
0.3												73.1	28.4	29.2		8.3		154.8		10.2		1.0			1.4						
M	0.3	303.4	26.4	26.4		33.2						33.2	7.9	7.9	46.8	47.2	3.1	3.2	1.5	1.4	0.5										
	0.3	303.4	26.3			33.3					7.9		47.7		3.2		1.4		0.5												
	B	0.3	301.2	24.3		24.3					34.5	34.5	7.8	7.8	40.0	39.4	2.8	2.7	7.6	7.6	10.3										
0.3		341.0	24.3	34.5							7.8		38.8		2.7		7.7		11.0												
F2		Fine	Calm	09:03	19.5	S	0.2	227.0	28.6	28.6	29.0	29.0	8.3	8.3	153.3	155.4	10.1	10.3	6.8	0.9	0.9	3.6	1.1	0.8	4.4						
	0.2						227.0	28.6	29.0		8.3		157.5		10.4		0.8			0.5											
	M						0.2	274.9	26.5	26.7	32.6	32.2	7.9	7.9	48.2	50.2	3.2	3.4	2.0	2.0	4.4										
						0.2	274.9	26.8	31.8		7.9		52.1		3.5		1.9		3.5												
						B	0.1	71.3	24.3	24.3	34.5	34.5	7.8	7.8	42.5	42.1	2.9	2.9	7.7	7.8	8.5										
	0.1						71.3	24.3	34.5		7.8		41.6		2.9		8.0		8.3												

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)		
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average
F3	Fine	Calm	10:31	18.0	S	0.6	251.9	29.2	29.2	28.7	28.7	8.3	8.3	168.8	170.7	11.0	11.2	8.2	0.8	0.8	1.9	1.7	5.3
						0.3	264.1	29.2		28.7		8.3		172.7		11.3		0.8	1.4				
						0.4	342.6	27.7		31.5		8.0		77.3		5.1		0.7	0.5				
					M	0.3	279.9	27.7	31.3	8.0	78.8	5.2	0.5	0.5									
						0.1	327.6	25.2	34.3	7.9	42.0	2.9	19.6	13.8									
						0.1	266.9	25.2	34.3	7.9	40.8	2.8	6.4		7.9								
F4	Cloudy	Moderate	15:54	13.3	S	0.7	96.0	30.0	30.0	26.3	26.3	8.3	8.3	200.5	199.9	13.1	13.1	10.1	2.3	2.3	2.5	2.0	2.4
						0.7	99.0	30.0		26.3		8.3		199.2		13.0		2.4	1.5				
						0.5	85.0	28.2		29.8		8.0		110.0		7.3		4.2	1.7				
					M	0.5	93.0	28.2	30.0	8.0	105.5	7.0	4.2	2.0									
						0.3	108.0	26.7	32.2	7.8	49.5	3.3	10.4	3.7									
						0.4	117.0	26.7	32.2	7.8	49.8	3.3	10.3	2.7									
F5	Cloudy	Moderate	13:23	6.7	S	0.1	279.0	29.1	29.1	21.4	21.4	7.9	7.9	81.2	81.1	5.5	5.5	5.1	2.9	2.9	0.5	0.5	0.9
						0.1	303.0	29.1		21.3		7.9		80.9		5.5		2.9	0.5				
						0.2	81.0	27.9		28.4		8.0		69.5		4.7		4.6	0.5				
					M	0.2	83.0	27.9	28.4	8.0	69.6	4.7	4.6	0.5									
						0.1	105.0	27.3	29.8	8.0	58.8	3.9	8.5	1.3									
						0.1	114.0	27.4	29.8	8.0	58.9	4.0	8.5	2.3									
F6	Cloudy	Calm	08:31	13.5	S	0.3	218.4	28.2	28.3	23.3	23.1	7.7	7.7	63.9	64.7	4.4	4.4	4.2	3.6	3.6	2.6	2.6	7.0
						0.6	203.8	28.3		22.9		7.7		65.5		4.5		3.5	2.5				
						0.7	336.5	27.6		26.4		7.7		57.7		3.9		6.6	5.3				
					M	0.4	147.9	27.5	26.4	7.7	58.9	4.0	6.1	4.9									
						0.5	239.1	26.4	29.6	7.7	54.4	3.7	14.6	13.2									
						1.4	306.9	26.4	29.6	7.7	50.8	3.5	14.4	13.6									
IM1	Fine	Calm	08:17	9.5	S	0.1	150.5	28.1	28.1	29.3	29.3	8.2	8.2	152.8	154.3	10.1	10.2	9.4	0.8	0.8	3.3	2.8	7.2
						0.3	318.7	28.1		29.3		8.3		155.8		10.3		0.8	2.3				
						0.4	148.7	27.8		29.4		8.1		127.7		8.5		1.3	3.4				
					M	0.3	62.0	27.8	29.4	8.1	130.4	8.7	1.3	4.3									
						0.1	45.8	27.0	31.9	7.9	72.5	4.8	7.3	14.1									
						0.1	253.3	26.8	32.0	7.9	69.2	4.6	7.5	16.0									
IM2	Fine	Calm	07:55	11.6	S	0.3	253.8	27.0	27.0	29.5	29.5	7.9	7.9	84.5	85.1	5.7	5.8	5.2	1.4	1.4	4.7	5.2	7.3
						0.2	234.0	26.9		29.5		7.9		85.8		5.8		1.5	5.6				
						0.3	348.7	26.7		29.9		7.8		69.1		4.7		2.0	6.4				
					M	0.1	256.0	26.7	29.9	7.8	69.6	4.7	1.9	5.4									
						0.2	156.0	26.1	32.6	7.8	51.4	3.5	5.3	11.6									
						0.3	129.9	25.9	33.2	7.8	39.5	2.7	6.4	10.2									
IM3	Fine	Calm	09:25	15.0	S	0.2	248.9	28.3	28.4	29.2	29.2	8.3	8.3	157.4	159.4	10.4	10.5	8.0	1.1	1.1	4.7	4.3	7.4
						0.2	321.8	28.4		29.2		8.3		161.3		10.7		1.0	3.8				
						0.2	256.9	27.3		29.7		8.0		80.4		5.4		2.2	4.5				
					M	0.3	249.3	27.4	29.7	8.0	82.6	5.5	2.1	5.4									
						0.1	205.9	25.5	34.2	7.8	29.2	2.0	5.1	13.4									
						0.1	205.9	25.5	34.2	7.8	27.3	1.8	5.2	12.8									
IM4	Fine	Calm	09:46	16.5	S	0.3	303.1	29.1	29.1	28.8	28.8	8.4	8.4	186.2	187.4	12.2	12.3	10.7	0.9	1.0	6.7	6.5	9.1
						0.2	289.5	29.1		28.8		8.4		188.7		12.4		1.0	6.3				
						0.1	218.8	28.3		29.4		8.2		135.1		8.9		1.4	6.2				
					M	0.2	278.5	28.3	29.4	8.2	138.2	9.1	1.3	5.3									
						0.3	228.5	25.7	34.1	7.9	34.6	2.3	8.9	15.9									
						0.3	235.2	25.7	34.1	7.8	32.8	2.2	9.7	14.1									
IM5	Fine	Calm	10:05	15.5	S	0.3	313.9	29.0	29.0	28.2	28.2	8.4	8.4	186.6	188.2	12.3	12.4	8.6	1.1	1.1	5.0	4.8	9.8
						0.2	255.1	28.9		28.2		8.4		189.9		12.5		1.2	4.6				
						0.1	43.0	27.5		30.2		8.0		68.8		4.6		1.7	6.6				
					M	0.1	43.0	27.6	30.2	8.0	77.5	5.2	1.7	5.5									
						0.1	277.5	25.8	34.0	7.9	37.5	2.5	10.9	17.4									
						0.0	14.0	25.8	34.0	7.8	35.6	2.4	11.0	19.5									

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM6	Fine	Calm	10:19	16.5	S	0.9	237.6	29.0	29.0	28.4	28.4	8.4	8.4	189.1	191.5	12.4	12.6	9.2	1.1	1.1	2.8	6.7	6.8	7.3
						0.9	237.6	28.9	28.4	28.4	8.4	8.4	193.9	193.9	12.8	12.8	9.2	1.1	1.1					
						0.3	284.6	27.9	28.0	30.6	30.4	8.0	8.1	79.5	87.1	5.3	5.8	9.2	1.1	1.1				
					M	0.3	284.6	28.2	28.0	30.2	30.4	8.1	8.1	94.7	94.7	6.3	6.3	2.9	2.9	2.9		6.3	6.3	
						0.5	27.7	25.4	25.4	34.2	34.2	7.9	7.9	43.3	42.4	2.9	2.9	2.9	6.3	6.3				
						0.5	27.7	25.4	25.4	34.2	34.2	7.9	7.9	41.6	41.6	2.8	2.8	2.9	6.3	6.3				
IM7	Fine	Calm	11:02	13.0	S	0.2	309.8	28.7	28.7	28.1	28.1	8.4	8.4	190.8	190.2	12.6	12.6	10.4	1.7	1.5	3.2	5.8	5.5	7.1
						0.1	252.3	28.7	28.7	28.2	28.1	8.4	8.4	189.6	189.6	12.5	12.5	10.4	1.3	1.5				
						0.3	258.8	28.1	28.2	29.2	29.2	8.1	8.2	120.1	122.3	8.0	8.1	10.4	1.9	1.9				
					M	0.2	320.1	28.2	28.2	29.1	29.2	8.2	8.2	124.6	124.6	8.3	8.1	3.3	3.3	3.3		6.1	6.2	
						0.4	266.6	25.9	25.9	33.8	33.8	7.9	7.9	49.2	48.7	3.3	3.3	3.3	6.1	6.2				
						0.4	266.6	25.9	25.9	33.8	33.8	7.9	7.9	48.2	48.2	3.2	3.2	3.3	6.1	6.2				
IM8	Fine	Calm	10:51	14.5	S	0.5	294.7	28.8	28.8	27.5	27.4	8.4	8.4	184.0	185.7	12.2	12.3	8.4	1.4	1.4	4.8	4.0	4.2	7.7
						0.1	321.5	28.7	28.8	27.4	27.4	8.4	8.4	187.4	187.4	12.4	12.4	8.4	1.4	1.4				
						0.5	302.2	27.6	27.5	30.6	30.9	7.9	7.9	71.5	66.3	4.8	4.4	8.4	1.7	1.8				
					M	0.4	273.8	27.3	27.5	31.2	30.9	7.9	7.9	61.1	61.1	4.1	4.4	8.4	1.8	1.8				
						0.3	318.9	25.6	25.6	34.1	34.1	7.9	7.9	44.7	43.9	3.0	3.0	3.0	11.3	11.3				
						0.3	318.9	25.6	25.6	34.1	34.1	7.9	7.9	43.2	43.2	2.9	2.9	3.0	11.3	11.3				
IM9	Cloudy	Moderate	15:24	14.7	S	0.2	70.0	29.7	29.8	27.9	27.9	8.3	8.3	213.1	212.1	13.9	13.8	10.8	2.0	2.0	4.9	4.2	3.7	5.9
						0.2	72.0	29.8	29.8	27.9	27.9	8.3	8.3	211.0	211.0	13.7	13.7	10.8	2.0	2.0				
						0.1	87.0	28.1	28.1	29.4	29.4	8.0	8.0	118.2	117.9	7.9	7.8	10.8	1.9	2.0				
					M	0.1	92.0	28.0	28.1	29.4	29.4	8.0	8.0	117.5	117.5	7.8	7.8	10.8	2.1	2.0				
						0.3	148.0	26.8	26.8	31.9	31.9	7.9	7.9	67.1	67.1	4.5	4.5	4.5	10.6	10.6				
						0.3	158.0	26.8	26.8	31.9	31.9	7.9	7.9	67.0	67.0	4.5	4.5	4.5	10.6	10.6				
IM10	Cloudy	Moderate	14:43	12.0	S	0.4	62.0	29.0	29.0	26.7	26.7	8.1	8.1	144.3	144.1	9.6	9.6	7.0	3.3	3.3	8.0	5.3	4.8	4.4
						0.4	65.0	29.0	29.0	26.7	26.7	8.1	8.1	143.9	143.9	9.6	9.6	7.0	3.3	3.3				
						0.6	67.0	26.6	26.6	31.8	32.0	7.9	7.9	66.3	65.1	4.5	4.4	7.0	8.7	8.7				
					M	0.6	71.0	26.5	26.6	32.1	32.0	7.9	7.9	63.8	65.1	4.3	4.4	7.0	8.7	8.7				
						0.4	58.0	26.3	26.3	32.8	32.8	7.8	7.8	51.3	51.4	3.4	3.4	3.4	12.1	12.1				
						0.5	61.0	26.3	26.3	32.8	32.8	7.8	7.8	51.5	51.4	3.5	3.4	3.4	12.1	12.1				
IM11A	Cloudy	Moderate	14:34	5.5	S	0.5	177.0	29.2	29.2	22.2	22.2	8.0	8.0	130.5	130.6	8.9	8.9	8.9	5.2	5.3	7.7	1.9	2.4	2.9
						0.5	179.0	29.1	29.2	22.3	22.2	8.0	8.0	130.7	130.7	8.9	8.9	8.9	5.4	5.3				
						0.6	201.0	28.7	28.7	25.4	25.4	8.0	8.0	128.9	128.8	8.7	8.7	8.7	10.1	10.1				
					B	0.3	122.0	30.4	30.4	23.1	23.1	8.1	8.1	138.8	138.7	9.2	9.2	7.0	1.7	1.7				
						0.2	152.0	27.3	27.3	30.4	30.4	7.8	7.8	70.8	70.7	4.7	4.7	7.0	4.5	4.5				
						0.2	166.0	27.2	27.3	30.4	30.4	7.8	7.8	70.5	70.7	4.7	4.7	7.0	4.6	4.5				
IM12	Cloudy	Moderate	14:26	14.3	S	0.2	138.0	26.7	26.8	31.9	31.8	7.8	7.8	57.5	57.7	3.9	3.9	3.9	9.6	9.6	5.3	4.4	3.9	4.0
						0.2	149.0	26.8	26.8	31.8	31.8	7.8	7.8	57.8	57.7	3.9	3.9	3.9	9.6	9.6				
						0.2	176.0	29.4	29.4	19.9	19.9	7.9	7.9	85.6	85.5	5.9	5.9	4.4	2.4	2.4				
					M	0.2	183.0	29.4	29.4	19.9	19.9	7.9	7.9	85.3	85.5	5.8	5.9	4.4	2.4	2.4				
						0.2	228.0	26.1	26.1	33.2	33.2	7.8	7.8	43.5	43.5	2.9	2.9	4.4	7.4	7.4				
						0.2	230.0	26.1	26.1	33.2	33.2	7.8	7.8	43.5	43.5	2.9	2.9	4.4	7.4	7.4				
IM13	Cloudy	Moderate	14:07	14.7	S	0.3	198.0	26.0	26.0	33.4	33.4	7.8	7.8	44.0	44.1	3.0	3.0	3.0	10.5	10.5	6.8	2.5	2.4	2.7
						0.3	198.0	26.0	26.0	33.4	33.4	7.8	7.8	44.2	44.1	3.0	3.0	3.0	10.5	10.5				
						0.4	225.0	28.9	28.9	22.3	22.3	7.9	7.9	102.2	102.2	7.0	7.0	5.2	2.3	2.3				
					M	0.5	227.0	28.9	28.9	22.3	22.3	7.9	7.9	102.2	102.2	7.0	7.0	5.2	2.3	2.3				
						0.5	209.0	26.5	26.5	30.0	30.3	7.8	7.8	52.4	52.0	3.6	3.5	5.2	9.8	9.9				
						0.5	211.0	26.5	26.5	30.7	30.3	7.8	7.8	51.6	52.0	3.5	3.5	5.2	9.9	9.9				
IM14	Cloudy	Moderate	14:00	11.4	S	0.5	191.0	26.1	26.1	33.2	33.2	7.8	7.8	47.6	47.8	3.2	3.2	3.2	10.7	10.7	7.6	4.0	3.7	3.3
						0.5	192.0	26.1	26.1	33.2	33.2	7.8	7.8	48.0	47.8	3.2	3.2	3.2	10.7	10.7				
						0.4	225.0	28.9	28.9	22.3	22.3	7.9	7.9	102.2	102.2	7.0	7.0	5.2	2.3	2.3				
					M	0.5	209.0	26.5	26.5	30.0	30.3	7.8	7.8	52.4	52.0	3.6	3.5	5.2	9.8	9.9				
						0.5	211.0	26.5	26.5	30.7	30.3	7.8	7.8	51.6	52.0	3.5	3.5	5.2	9.9	9.9				
						0.5	191.0	26.1	26.1	33.2	33.2	7.8	7.8	47.6	47.8	3.2	3.2	3.2	10.7	10.7				

Water Quality Monitoring Data Log Sheet

Date: 2019/08/21

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM15	Cloudy	Calm	07:40	6.0	S	1.5	339.2	28.2	28.2	21.2	21.3	7.7	7.7	75.8	77.2	5.3	5.4	5.0	2.9	2.8	4.1	4.4	3.9	4.5
						0.5	258.9	28.1		21.3		78.6		5.5		2.7			3.4					
						0.9	41.0	28.1		23.4		7.6		65.8		4.5			3.8			4.4		
					M	0.5	146.3	28.1	23.2	23.3	7.7	7.7	69.9	67.8	4.8	4.7	4.0	6.1	3.1	3.4	3.9			
						0.7	336.7	27.7	26.7	26.7	7.4	7.5	62.0	59.7	4.2	4.0	4.0	6.1	6.0	6.1	6.1	5.8		
						0.3	275.4	27.7	26.7	26.7	7.5	7.5	57.3	59.7	3.9	4.0	4.0	6.1	6.2	6.1	6.1	5.4		
IM16A	Cloudy	Calm	08:07	6.5	S	0.6	239.1	28.5	28.5	20.7	20.9	7.7	7.7	66.6	66.2	4.6	4.6	4.5	5.4	5.4	6.0	5.8	5.6	5.9
						1.1	180.4	28.5		21.1		7.7		65.8		4.5			5.3			5.3		
						0.7	132.9	28.4		21.7		7.7		64.5		4.4			6.1			5.9		
					M	0.5	286.6	28.4	21.6	21.7	7.7	7.7	64.6	64.5	4.5	4.4	4.5	6.2	6.3	6.2	5.3	5.6		
						0.5	316.2	27.9	25.8	25.6	7.7	7.7	69.0	66.7	4.7	4.5	4.5	6.5	6.4	6.5	6.8	6.5		
						0.4	83.0	27.9	25.5	25.6	7.7	7.7	64.3	66.7	4.4	4.5	4.5	6.5	6.5	6.5	6.2	6.5		
IM17	Cloudy	Calm	09:13	5.0	S	0.9	214.0	29.0	29.0	16.5	16.0	7.7	7.6	62.1	62.1	4.4	4.4	4.4	5.7	5.4	10.4	5.9	6.3	13.2
						0.9	214.0	29.0		15.5		7.6		62.0		4.4			5.1			6.6		
					B	0.7	344.3	28.2	23.1	23.2	7.7	7.7	62.8	61.9	4.3	4.3	4.3	15.4	16.0	15.4	26.8	20.1		
						0.4	85.1	28.1	23.3	23.2	7.7	7.7	61.1	61.9	4.2	4.3	4.3	14.8	14.8	15.4	13.4	20.1		
IM18	Cloudy	Calm	09:00	17.0	S	0.2	194.9	28.9	28.9	16.4	16.1	7.7	7.7	66.9	68.1	4.7	4.8	4.2	5.8	5.6	31.7	7.9	7.6	26.3
						0.2	194.9	28.9		15.8		7.7		69.4		4.9			5.5			7.2		
						0.6	336.0	27.1		27.1		27.4		27.5		7.7			7.7			51.6		
					M	0.2	268.2	27.1	27.1	27.6	7.7	7.7	52.4	52.0	3.6	3.5	3.5	8.6	8.2	8.6	11.1	10.7		
						0.4	275.5	26.2	26.2	30.0	30.0	7.7	7.7	45.3	45.0	3.1	3.1	3.1	81.0	76.0	81.0	60.1	60.8	
						0.6	326.8	26.2	26.2	30.0	30.0	7.7	7.7	44.8	45.0	3.1	3.1	3.1	85.9	81.0	81.0	61.4	60.8	
IM19	Cloudy	Calm	09:33	17.5	S	0.6	298.7	28.6	28.7	19.7	19.1	7.7	7.7	64.4	65.8	4.5	4.6	4.0	5.8	5.9	30.1	9.2	9.2	45.4
						0.7	46.1	28.8		18.5		7.7		67.2		4.7			5.9			9.1		
						0.4	56.7	27.3		27.3		27.0		27.0		7.7			7.7			49.8		
					M	0.6	65.8	27.3	27.3	27.0	27.0	7.7	7.7	49.8	49.8	3.4	3.4	3.4	8.7	7.9	8.7	9.8	9.6	
						0.5	12.7	26.6	26.6	29.0	29.0	7.7	7.7	53.0	52.1	3.6	3.6	3.6	75.7	74.5	75.7	124.0	117.5	
						0.6	356.2	26.7	26.6	28.9	29.0	7.7	7.7	51.3	52.1	3.5	3.6	3.6	76.9	75.7	75.7	111.0	117.5	
IM20A	Cloudy	Calm	10:31	4.5	S	1.4	62.9	29.7	29.6	20.1	19.8	7.7	7.7	76.3	76.5	5.2	5.2	5.2	20.0	18.1	29.8	9.3	10.1	31.4
						1.4	62.9	29.6		19.6		7.7		76.7		5.2			16.2			10.8		
					B	0.3	155.8	27.9	27.8	25.3	25.4	7.7	7.7	69.1	65.2	4.7	4.4	4.4	41.5	38.7	41.5	49.0	52.7	
						0.1	32.1	27.8	27.8	25.6	25.4	7.7	7.7	61.4	65.2	4.2	4.4	4.4	44.3	41.5	41.5	56.3	52.7	
IM21A	Cloudy	Calm	10:22	5.0	S	1.4	217.3	29.7	29.7	20.8	20.7	7.7	7.7	75.2	76.4	5.1	5.2	5.2	15.4	14.7	20.5	12.3	13.3	23.4
						0.8	202.6	29.7		20.6		7.7		77.6		5.3			14.1			14.3		
					B	0.2	152.5	29.4	29.3	22.5	22.8	7.7	7.7	73.3	71.8	4.9	4.9	4.9	26.3	24.6	26.3	35.7	33.5	
						0.4	267.6	29.1	29.3	23.1	22.8	7.7	7.7	70.4	71.8	4.8	4.9	4.9	26.3	28.1	26.3	31.3	33.5	
IM22A	Cloudy	Calm	10:16	4.5	S	0.8	166.5	29.0	29.0	18.1	18.2	7.7	7.7	72.2	72.8	5.0	5.1	5.1	8.1	7.3	21.2	4.5	4.8	26.6
						0.8	166.5	29.0		18.3		7.7		73.4		5.1			6.4			5.1		
					B	0.5	152.4	27.7	27.7	25.9	25.9	7.7	7.7	71.0	65.2	4.8	4.4	4.4	35.2	34.0	35.2	46.2	48.4	
						0.4	110.4	27.6	27.7	26.0	25.9	7.7	7.7	59.3	65.2	4.0	4.4	4.4	36.3	35.2	35.2	50.6	48.4	

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
E1	Fine	Calm	19:03	8.5	S	0.2	53.7	28.3	28.4	28.6	28.6	8.3	8.3	160.2	161.1	10.6	10.7	8.5	1.5	1.5	2.7	2.5	3.1			
						0.2	53.7	28.4	28.6	28.6	8.3	8.3	162.1	161.1	10.8	10.7	8.5	1.5	1.5	2.3	2.5					
						0.2	260.5	27.1	27.2	29.7	29.6	8.0	8.1	94.0	95.0	6.3	6.4	8.5	2.9	2.9	3.0	3.0				
					M	0.6	8.9	27.2	27.2	29.5	29.6	8.1	8.1	96.0	95.0	6.5	6.4	8.5	2.9	2.9	2.9	2.9		3.5	3.8	
						B	0.1	134.5	26.7	26.7	30.8	30.8	8.0	8.0	86.3	84.5	5.8	5.7	5.7	3.9	4.0	4.1		4.1	3.5	3.8
							0.3	231.4	26.7	26.7	30.9	30.8	8.0	8.0	82.7	84.5	5.6	5.7	5.7	4.1	4.0	4.1		4.1	3.5	3.8
E2	Cloudy	Calm	18:41	8.7	S	0.1	10.0	29.1	29.1	27.8	27.8	8.5	8.5	206.0	205.7	13.6	13.6	9.5	0.7	0.8	3.6	3.4	12.5			
						0.1	10.0	29.1	29.1	27.8	27.8	8.5	8.5	205.4	205.7	13.5	13.6	9.5	0.8	0.8	3.2	3.4				
						0.0	339.0	27.7	27.7	29.7	29.7	8.1	8.1	82.3	82.5	5.5	5.5	9.5	0.2	0.2	4.3	4.2				
					M	0.0	312.0	27.7	27.7	29.7	29.7	8.1	8.1	82.6	82.5	5.5	5.5	9.5	0.2	0.2	4.0	4.0		4.0	4.2	
						B	0.0	299.0	26.9	26.9	31.2	31.2	7.8	7.8	21.6	21.7	1.5	1.5	1.5	22.8	22.8	28.6		28.6	28.6	29.9
							0.0	323.0	26.9	26.9	31.2	31.2	7.8	7.8	21.7	21.7	1.5	1.5	1.5	22.8	22.8	31.1		31.1	31.1	29.9
E3	Cloudy	Calm	17:12	16.6	S	0.2	107.0	28.7	28.7	23.8	23.8	8.2	8.2	120.1	119.9	8.2	8.2	5.8	1.0	1.1	2.3	2.2	2.4			
						0.2	116.0	28.7	28.7	23.7	23.8	8.2	8.2	119.6	119.9	8.1	8.2	5.8	1.1	1.1	2.0	2.2				
						0.2	118.0	26.4	26.4	31.8	31.8	7.9	7.9	50.7	50.8	3.4	3.4	5.8	5.9	5.9	2.2	2.5				
					M	0.2	119.0	26.4	26.4	31.8	31.8	7.9	7.9	50.9	50.8	3.4	3.4	5.8	5.9	5.9	2.8	2.8		2.8	2.4	
						B	0.2	138.0	25.6	25.6	33.1	33.1	7.9	7.9	42.3	42.5	2.9	2.9	2.9	28.1	28.2	2.4		2.4	2.4	2.4
							0.2	145.0	25.6	25.6	33.1	33.1	7.9	7.9	42.6	42.5	2.9	2.9	2.9	28.2	28.2	2.4		2.4	2.4	2.4
E4	Cloudy	Calm	15:51	11.8	S	0.2	190.0	29.2	29.2	18.6	18.6	8.1	8.1	100.8	100.7	7.0	7.0	5.0	2.6	2.7	3.2	3.1	11.8			
						0.2	197.0	29.2	29.2	18.7	18.7	8.1	8.1	100.6	100.7	7.0	7.0	5.0	2.7	2.7	2.9	2.9				
						0.3	209.0	26.1	26.1	32.4	32.4	7.9	7.9	43.8	43.9	3.0	3.0	5.0	8.9	9.0	3.5	3.4				
					M	0.3	224.0	26.1	26.1	32.4	32.4	7.9	7.9	43.9	43.9	3.0	3.0	5.0	9.0	9.0	3.2	3.2		3.2	3.4	
						B	0.3	202.0	26.0	26.0	32.8	32.8	7.9	7.9	48.3	48.5	3.3	3.3	3.3	15.0	14.8	28.0		28.0	28.0	29.0
							0.3	207.0	26.0	26.0	32.8	32.8	7.9	7.9	48.7	48.5	3.3	3.3	3.3	14.6	14.8	30.0		30.0	30.0	29.0
E5	Cloudy	Calm	18:05	5.5	S	0.8	255.5	29.4	29.5	17.7	17.2	8.1	8.1	96.5	99.1	6.7	6.9	6.9	3.3	3.3	2.9	2.7	4.0			
						0.8	255.5	29.6	29.5	16.7	17.2	8.1	8.1	101.6	99.1	7.1	6.9	6.9	3.2	3.3	2.5	2.7				
						0.2	91.2	28.3	28.3	23.9	23.7	7.9	7.9	73.7	70.3	5.0	4.8	4.8	6.0	6.1	5.6	5.2				
					B	1.3	212.0	28.3	28.3	23.6	23.7	7.9	7.9	66.9	70.3	4.6	4.8	4.8	6.2	6.1	4.8	4.8		4.8	5.2	
						S	0.5	15.2	29.7	30.0	16.2	15.2	7.9	7.9	77.0	83.1	5.4	5.8	5.8	5.3	5.4	3.1		3.3		
							0.6	290.9	30.3	30.0	14.3	15.2	8.0	7.9	89.3	83.1	6.2	5.8	5.8	5.6	5.4	3.4		3.3		
E6	Cloudy	Calm	16:12	5.5	S	1.0	129.6	28.5	28.5	22.2	22.4	7.9	7.8	70.0	67.6	4.8	4.6	4.6	4.6	4.6	4.4	4.6	3.9			
						0.6	217.8	28.4	28.5	22.6	22.4	7.8	7.8	65.2	67.6	4.5	4.6	4.6	4.9	4.7	4.8	4.8				
						1.0	17.0	30.6	30.8	16.0	15.6	7.9	7.9	84.7	94.2	5.8	6.4	6.4	4.4	4.4	4.3	4.1				
					M	1.0	17.0	31.1	30.8	15.2	15.6	7.9	7.9	103.7	94.2	7.1	6.4	6.4	4.3	4.4	3.8	3.8				
						0.3	102.7	27.6	27.8	26.5	25.9	7.5	7.6	55.7	61.8	3.8	4.2	4.2	5.9	5.2	10.4	10.2				
						0.7	286.2	28.0	27.8	25.4	25.9	7.7	7.6	68.0	61.8	4.6	4.2	4.2	4.6	5.2	9.9	10.2				
E7A	Cloudy	Calm	15:20	5.0	S	0.1	105.2	29.7	29.7	29.2	29.2	8.6	8.6	219.1	220.7	14.2	14.3	8.4	0.8	0.8	3.2	3.4	5.7			
						0.1	105.2	29.8	29.7	29.1	29.2	8.6	8.6	222.2	220.7	14.4	14.3	8.4	0.8	0.8	3.6	3.6				
						0.1	230.7	26.7	26.6	31.8	32.2	7.9	7.9	40.4	37.0	2.7	2.5	8.4	1.2	1.2	6.0	5.8				
					M	0.1	242.2	26.5	26.6	32.6	32.2	7.8	7.9	33.6	37.0	2.2	2.5	8.4	1.1	1.2	5.6	5.6				
						B	0.3	172.7	24.2	24.2	34.5	34.5	7.8	7.8	27.9	27.1	1.9	1.9	1.9	5.3	5.1	8.3		8.3		
							0.3	172.7	24.2	24.2	34.5	34.5	7.8	7.8	26.3	27.1	1.8	1.9	1.9	4.9	5.1	7.7		7.7		
F1	Fine	Calm	18:13	20.0	S	0.1	32.5	28.9	28.9	28.7	28.7	8.5	8.5	215.7	215.1	14.2	14.1	8.9	1.0	1.0	4.2	4.2	7.0			
						0.1	32.5	28.9	28.9	28.8	28.7	8.5	8.5	214.5	215.1	14.1	14.1	8.9	1.0	1.0	4.2	4.2				
						0.3	102.0	27.0	26.9	32.9	32.9	8.0	8.0	55.0	54.8	3.7	3.6	3.6	0.4	0.3	4.0	4.1				
					M	0.2	70.9	26.9	26.9	33.0	32.9	8.0	8.0	54.6	54.8	3.6	3.6	3.6	0.3	0.3	4.2	4.2				
						B	0.2	161.1	24.1	24.1	34.5	34.5	7.8	7.8	38.6	37.7	2.7	2.6	2.6	9.4	9.7	13.2		12.7		
							0.2	161.1	24.1	24.1	34.5	34.5	7.8	7.8	36.9	37.7	2.5	2.6	2.6	10.1	9.7	12.2		12.7		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
IM6	Fine	Calm	16:56	16.0	S	0.5	220.7	29.3	29.3	26.8	26.8	8.6	8.6	238.3	238.9	15.7	15.8	9.6	1.5	1.5	6.6	8.4	
						0.5	220.7	29.2	29.3	26.8	26.8	8.6	8.6	239.5	238.9	15.8	15.8	9.6	1.5	1.5	7.2		
					M	0.1	99.9	27.1	27.1	32.4	32.4	8.0	8.0	51.3	52.3	3.4	3.5	2.8	0.7	0.8	7.3		7.5
						0.1	99.9	27.1	27.1	32.4	32.4	8.0	8.0	53.3	52.3	3.5	3.5	2.8	0.7	0.8	7.6		
					B	0.4	258.1	24.9	24.9	34.4	34.4	7.9	7.9	41.6	40.6	2.8	2.8	2.8	7.0	7.1	11.5		10.9
						0.1	119.9	24.9	24.9	34.4	34.4	7.9	7.9	39.7	40.6	2.7	2.8	2.8	7.3	7.1	10.3		
IM7	Fine	Calm	16:36	12.7	S	0.2	161.8	28.8	28.8	28.5	28.5	8.4	8.4	162.9	164.3	10.7	10.8	8.1	1.2	1.2	7.0	8.1	
						0.2	161.8	28.8	28.8	28.5	28.5	8.4	8.4	165.7	164.3	10.9	10.8	8.1	1.2	1.2	7.3		
					M	0.3	115.2	27.5	27.5	31.0	31.2	8.1	8.1	82.3	79.6	5.5	5.3	2.6	1.3	1.2	8.1		7.9
						0.2	98.6	27.4	27.5	31.3	31.2	8.1	8.1	76.9	79.6	5.1	5.3	2.6	1.1	1.2	7.7		
					B	0.4	29.1	25.3	25.3	34.2	34.2	7.9	7.9	38.8	38.0	2.6	2.6	2.6	8.4	8.5	9.4		9.3
						0.1	64.2	25.3	25.3	34.2	34.2	7.9	7.9	37.2	38.0	2.5	2.6	2.6	8.5	8.5	9.1		
IM8	Fine	Calm	16:24	14.6	S	0.7	187.4	29.9	29.7	25.5	25.9	8.6	8.6	210.6	214.1	13.9	14.1	9.0	1.7	1.7	4.0	6.0	
						0.7	187.4	29.6	29.7	26.3	25.9	8.6	8.6	217.7	214.1	14.3	14.1	9.0	1.7	1.7	3.9		
					M	0.2	143.0	27.5	27.4	31.9	32.0	8.0	8.0	58.7	59.0	3.9	3.9	2.6	0.7	0.7	4.3		4.5
						0.2	143.0	27.4	27.4	32.2	32.0	8.0	8.0	59.3	59.0	3.9	3.9	2.6	0.7	0.7	4.6		
					B	0.1	101.0	25.2	25.2	34.3	34.3	7.9	7.9	39.9	38.8	2.7	2.6	2.6	7.3	7.3	9.5		9.6
						0.1	101.0	25.2	25.2	34.3	34.3	7.9	7.9	37.7	38.8	2.6	2.6	2.6	7.4	7.3	9.7		
IM9	Cloudy	Calm	17:41	15.0	S	0.3	111.0	28.9	28.9	24.3	24.3	8.4	8.4	164.0	164.1	11.1	11.1	8.4	0.8	0.9	2.9	3.9	
						0.3	119.0	28.9	28.9	24.2	24.3	8.4	8.4	164.1	164.1	11.1	11.1	8.4	0.9	0.9	3.3		
					M	0.3	96.0	27.7	27.7	30.0	30.0	8.1	8.1	85.0	85.0	5.7	5.7	2.9	0.3	0.4	3.4		3.3
						0.3	96.0	27.7	27.7	30.0	30.0	8.1	8.1	84.9	85.0	5.7	5.7	2.9	0.4	0.4	3.2		
					B	0.1	162.0	25.5	25.5	33.3	33.3	7.9	7.9	42.4	42.6	2.9	2.9	2.9	9.7	9.7	4.9		5.3
						0.1	167.0	25.5	25.5	33.3	33.3	7.9	7.9	42.8	42.6	2.9	2.9	2.9	9.7	9.7	5.6		
IM10	Cloudy	Calm	16:55	12.5	S	0.1	35.0	28.6	28.6	26.9	26.9	8.4	8.4	157.5	157.5	10.5	10.5	7.0	2.0	2.0	4.1	13.0	
						0.1	36.0	28.6	28.6	26.9	26.9	8.4	8.4	157.4	157.5	10.5	10.5	7.0	2.0	2.0	3.5		
					M	0.2	83.0	26.4	26.5	31.8	31.8	7.9	7.9	50.4	50.5	3.4	3.4	3.4	8.7	8.6	5.4		5.8
						0.2	89.0	26.5	26.5	31.8	31.8	7.9	7.9	50.6	50.5	3.4	3.4	3.4	8.5	8.6	6.1		
					B	0.2	67.0	26.1	26.1	32.5	32.5	7.9	7.9	49.9	50.0	3.4	3.4	3.4	11.5	11.7	29.3		29.4
						0.2	71.0	26.1	26.1	32.5	32.5	7.9	7.9	50.1	50.0	3.4	3.4	3.4	11.8	11.7	29.4		
IM11A	Cloudy	Moderate	16:42	5.8	S	0.3	183.0	28.8	28.8	22.5	22.6	8.2	8.2	106.7	106.5	7.3	7.3	3.6	2.1	2.2	2.8	12.1	
						0.4	200.0	28.8	28.8	22.6	22.6	8.2	8.2	106.2	106.5	7.2	7.3	3.6	2.2	2.2	3.2		
					B	0.1	28.0	27.2	27.2	30.0	30.0	8.0	8.0	72.0	72.4	4.8	4.9	4.9	5.1	5.0	19.6		21.2
						0.1	28.0	27.2	27.2	29.9	30.0	8.0	8.0	72.8	72.4	4.9	4.9	4.9	4.9	5.0	22.7		
					S	0.3	154.0	28.4	28.5	26.2	26.1	8.1	8.1	100.1	100.3	6.7	6.7	5.7	1.7	1.8	4.8		4.6
						0.4	157.0	28.5	28.5	26.0	26.1	8.1	8.1	100.4	100.3	6.7	6.7	5.7	1.8	1.8	4.4		
M	0.1	189.0	27.1	27.1	30.3	30.3	8.0	8.0	69.0	69.0	4.6	4.6	4.6	2.3	2.3	6.3	6.1						
	0.1	201.0	27.1	27.1	30.3	30.3	8.0	8.0	69.0	69.0	4.6	4.6	4.6	2.3	2.3	5.9							
B	0.2	123.0	26.7	26.7	31.4	31.4	7.9	8.0	59.9	60.0	4.0	4.0	4.0	13.3	13.6	74.1	71.3						
	0.3	129.0	26.7	26.7	31.4	31.4	8.0	8.0	60.0	60.0	4.0	4.0	4.0	13.8	13.6	68.4							
IM12	Cloudy	Moderate	16:32	13.6	S	0.3	171.0	28.9	28.9	23.8	23.8	8.1	8.1	107.0	107.1	7.2	7.2	5.1	1.7	1.8	6.6	23.1	
						0.3	184.0	28.9	28.9	23.8	23.8	8.1	8.1	107.1	107.1	7.2	7.2	5.1	1.9	1.8	6.8		
					M	0.2	222.0	26.0	26.0	32.7	32.7	7.9	7.9	42.4	42.5	2.9	2.9	2.9	6.7	6.8	13.0		13.5
						0.2	237.0	26.0	26.0	32.7	32.7	7.9	7.9	42.5	42.5	2.9	2.9	2.9	6.8	6.8	13.9		
					B	0.3	185.0	25.9	25.9	33.1	33.1	7.9	7.9	45.5	45.7	3.1	3.1	3.1	21.7	21.7	46.1		49.3
						0.3	201.0	25.9	25.9	33.1	33.1	7.9	7.9	45.8	45.7	3.1	3.1	3.1	21.6	21.7	52.4		
IM13	Cloudy	Moderate	16:12	17.6	S	0.3	189.0	28.4	28.5	25.4	25.4	8.1	8.1	95.4	95.5	6.4	6.4	5.4	2.2	2.3	4.2	10.7	
						0.3	205.0	28.5	28.5	25.3	25.4	8.1	8.1	95.6	95.5	6.4	6.4	5.4	2.4	2.3	4.7		
					M	0.3	200.0	27.3	27.3	29.3	29.3	8.0	8.0	65.6	65.4	4.4	4.4	4.4	5.5	5.5	6.9		6.6
						0.3	209.0	27.3	27.3	29.3	29.3	8.0	8.0	65.2	65.4	4.4	4.4	4.4	5.5	5.5	6.3		
					B	0.4	210.0	26.0	26.0	32.7	32.7	7.9	7.9	43.5	43.7	2.9	3.0	3.0	14.5	14.5	21.0		21.2
						0.4	230.0	26.0	26.0	32.7	32.7	7.9	7.9	43.8	43.7	3.0	3.0	3.0	14.4	14.5	21.3		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
IM15	Cloudy	Calm	18:16	6.5	S	0.8	238.0	28.9	28.9	20.6	20.6	7.9	7.9	74.0	73.8	5.1	5.1	5.0	2.3	2.2	2.1	2.5			
						0.8	238.0	28.9	28.9	20.6	20.6	7.9	7.9	73.5	73.8	5.1	5.1	5.0	2.3	2.2	2.1	2.5			
						0.2	67.8	28.4	28.4	22.9	22.8	7.9	7.9	71.9	72.5	4.9	5.0	4.1	4.2	4.3	3.2	3.5	3.2		
					M	0.2	67.8	28.5	27.8	22.8	22.8	7.9	7.9	73.2	72.5	5.0	5.0	4.1	4.2	4.1	4.2	4.1	4.2	2.8	3.2
						0.6	238.5	27.8	27.8	26.8	26.8	7.9	7.9	71.4	67.8	4.8	4.6	4.6	4.6	7.3	8.0	9.0	9.6	9.0	9.6
						0.1	275.4	27.8	27.8	26.8	26.8	7.9	7.9	64.2	67.8	4.4	4.6	4.6	4.6	8.6	8.0	10.1	9.6	10.1	9.6
IM16A	Cloudy	Calm	17:51	7.0	S	0.6	152.9	28.8	28.8	21.1	20.6	8.0	8.0	77.9	81.7	5.4	5.6	5.1	3.7	3.7	3.6	3.6			
						1.1	172.0	28.9	28.8	20.1	20.6	8.0	8.0	85.5	81.7	5.9	5.6	5.1	3.7	3.7	3.6	3.6			
						0.6	222.2	28.5	28.5	22.7	22.8	7.9	7.9	67.6	67.9	4.6	4.6	4.1	3.9	4.1	3.6	3.7	3.6		
					M	0.6	222.2	28.5	28.5	22.8	22.8	7.9	7.9	68.1	67.9	4.7	4.6	3.7	3.9	3.7	3.6	3.4	3.6		
						0.3	281.7	28.3	28.3	23.9	23.9	7.9	7.9	70.8	68.6	4.8	4.7	4.7	4.7	6.0	6.3	4.3	4.5		
						0.3	281.7	28.3	28.3	24.0	23.9	7.9	7.9	66.4	68.6	4.5	4.7	4.7	4.7	6.7	6.3	4.7	4.5		
IM17	Cloudy	Calm	16:49	5.0	S	0.9	271.3	29.6	29.6	16.4	16.3	8.0	8.0	85.7	87.0	6.0	6.1	6.1	3.1	2.9	9.1	9.5			
						0.9	271.3	29.7	29.6	16.1	16.3	8.0	8.0	88.2	87.0	6.1	6.1	6.1	2.9	2.9	9.1	9.5			
						0.3	183.6	28.5	28.5	22.3	22.3	7.8	7.8	65.2	63.8	4.5	4.4	4.4	4.4	6.9	7.0	9.8	10.2		
					B	0.3	136.4	28.5	28.5	22.3	22.3	7.8	7.8	62.3	63.8	4.3	4.4	4.4	4.4	7.1	7.0	10.4	10.9		
						1.0	159.8	30.3	30.3	16.3	16.2	8.0	8.0	90.0	93.2	6.2	6.4	5.3	3.7	3.6	3.2	3.6			
						0.4	220.9	30.3	30.3	16.2	16.2	8.0	8.0	96.5	93.2	6.6	6.4	5.3	3.7	3.6	3.2	3.6			
IM18	Cloudy	Calm	17:00	17.5	M	1.0	76.0	27.5	27.5	26.9	26.8	7.9	7.9	61.7	61.4	4.2	4.2	4.2	3.8	3.1	3.9	3.6			
						1.0	76.0	27.5	27.5	26.9	26.8	7.9	7.9	61.7	61.4	4.2	4.2	4.2	3.1	3.1	3.9	3.6			
						1.0	76.0	27.5	27.5	26.8	26.8	7.9	7.9	61.1	61.4	4.2	4.2	4.2	3.1	3.1	3.9	3.6			
					B	0.1	77.0	26.8	26.8	28.8	28.9	7.8	7.8	55.4	53.6	3.8	3.7	3.7	9.6	9.6	13.8	12.9			
						0.1	77.0	26.7	26.8	28.9	28.9	7.8	7.8	51.9	53.6	3.5	3.7	3.7	9.6	9.6	12.0	12.9			
						0.5	92.7	30.5	30.5	15.0	15.1	8.0	8.0	96.0	97.0	6.6	6.7	5.4	4.5	4.5	4.1	4.1			
IM19	Cloudy	Calm	16:30	17.5	S	0.5	92.7	30.5	30.5	15.3	15.1	8.0	8.0	98.1	97.0	6.8	6.7	5.4	4.4	4.5	4.1	4.1			
						0.5	92.7	30.5	30.5	15.3	15.1	8.0	8.0	98.1	97.0	6.8	6.7	5.4	4.4	4.5	4.1	4.1			
						0.5	150.2	28.1	28.0	25.8	26.2	7.9	7.9	60.4	60.4	4.1	4.1	4.1	9.0	9.0	10.0	10.5			
					M	1.0	233.7	27.8	28.0	26.7	26.2	7.9	7.9	60.4	60.4	4.1	4.1	4.1	9.0	9.0	11.0	10.5			
						0.5	188.8	26.4	26.4	30.0	29.9	7.9	7.9	57.1	55.2	3.9	3.8	3.8	11.5	11.5	14.4	15.6			
						0.2	209.2	26.4	26.4	29.8	29.9	7.9	7.9	53.3	55.2	3.6	3.8	3.8	11.5	11.5	16.8	15.6			
IM20A	Cloudy	Calm	15:34	4.5	S	0.3	52.5	30.8	30.8	15.6	15.5	7.9	7.9	91.2	95.9	6.3	6.6	6.6	4.9	4.4	4.4	4.4			
						0.3	52.5	30.8	30.8	15.4	15.5	7.9	7.9	100.5	95.9	6.9	6.6	6.6	4.4	4.4	4.4	4.4			
						0.4	355.3	29.1	29.1	21.9	21.9	7.8	7.8	66.8	65.7	4.6	4.5	4.5	9.4	9.4	11.5	11.8			
					B	0.4	355.3	29.1	29.1	21.9	21.9	7.8	7.8	66.8	65.7	4.6	4.5	4.5	9.4	9.4	11.5	11.8			
						0.7	221.1	29.1	29.1	21.9	21.9	7.8	7.8	64.6	65.7	4.4	4.5	4.5	9.4	9.4	12.0	11.8			
						0.4	237.1	30.9	30.9	15.3	15.3	8.0	8.0	98.2	99.6	6.7	6.8	6.8	4.7	4.7	3.6	3.7			
IM21A	Cloudy	Calm	15:43	5.0	S	1.5	218.8	30.9	30.9	15.3	15.3	8.0	8.0	101.1	99.6	6.9	6.8	6.8	4.5	4.7	3.7	3.7			
						0.8	14.4	29.9	29.9	19.5	19.0	7.9	7.9	87.9	85.1	6.0	5.8	5.8	7.6	7.6	4.7	4.7			
						0.2	79.1	30.0	29.9	18.6	19.0	7.9	7.9	82.2	85.1	5.6	5.8	5.8	7.6	7.6	4.7	4.7			
					B	0.4	44.0	30.1	30.1	20.6	20.6	7.9	7.9	83.1	83.8	5.6	5.7	5.7	6.5	6.5	5.4	5.5			
						0.4	44.0	30.1	30.1	20.6	20.6	7.9	7.9	84.5	83.8	5.9	5.7	5.7	6.5	6.5	5.6	5.5			
						0.5	332.5	28.9	28.9	23.3	23.3	7.8	7.8	69.8	70.3	4.7	4.8	4.8	5.5	5.5	6.4	6.2			
IM22A	Cloudy	Calm	15:51	4.5	S	0.4	188.6	29.0	28.9	23.3	23.3	7.8	7.8	70.8	70.3	4.8	4.8	4.8	5.7	5.6	6.0	6.2			
						0.4	188.6	29.0	28.9	23.3	23.3	7.8	7.8	70.8	70.3	4.8	4.8	4.8	5.7	5.6	6.0	6.2			
						0.4	188.6	29.0	28.9	23.3	23.3	7.8	7.8	70.8	70.3	4.8	4.8	4.8	5.7	5.6	6.0	6.2			
					B	0.4	188.6	29.0	28.9	23.3	23.3	7.8	7.8	70.8	70.3	4.8	4.8	4.8	5.7	5.6	6.0	6.2			
						0.4	188.6	29.0	28.9	23.3	23.3	7.8	7.8	70.8	70.3	4.8	4.8	4.8	5.7	5.6	6.0	6.2			
						0.4	188.6	29.0	28.9	23.3	23.3	7.8	7.8	70.8	70.3	4.8	4.8	4.8	5.7	5.6	6.0	6.2			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)									
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*						
E1	Fine	Calm	09:38	8.7	S	0.1	138.3	27.6	27.6	29.2	29.2	8.0	8.0	108.2	109.1	7.3	7.3	6.5	1.9	1.8	3.8	2.3	2.2	5.2						
						0.2	194.4	27.6		29.1		8.1		110.0		7.4			1.8			2.0								
						0.1	292.3	27.1		29.8		7.9		85.1		5.7			2.1			3.4								
					M	0.1	292.3	27.1	29.8	29.8	7.9	7.9	85.3	5.7	5.7	2.1	2.1	3.7	3.6											
						0.4	184.0	26.4	26.4	30.9	30.8	7.6	7.7	64.0	63.3	4.3	4.3	7.6		7.5	10.3									
						0.2	47.3	26.4		30.8		7.7		62.5		4.2		7.4			9.3									
E2	Cloudy	Moderate	10:29	8.5	S	0.1	350.0	28.6	28.6	26.8	26.8	8.3	8.3	152.4	152.2	10.2	10.2	8.4	0.8	0.8	5.5	2.8	2.6	5.8						
						0.1	15.0	28.6		26.8		8.3		151.9		10.1			0.8			2.3								
						0.2	306.0	28.2		28.2		28.9		8.2		8.2			100.3			6.7			0.6	3.1				
					M	0.2	321.0	28.2	28.2	28.9	8.2	8.2	99.9	6.6	6.7	0.6	0.6	2.8	3.0											
						0.2	266.0	27.1	27.1	31.0	31.0	7.8	7.8	15.9	16.0	1.1	1.1	15.0		15.0	12.3									
						0.2	277.0	27.1		31.0		7.8		16.0		1.1		14.9			11.3									
E3	Cloudy	Moderate	12:01	16.6	S	0.1	37.0	28.2	28.2	25.6	25.6	8.1	8.1	97.5	97.5	6.6	6.6	5.8	0.7	0.7	2.9	3.0	2.6	14.6						
						0.1	37.0	28.2		25.6		8.1		97.5		6.6			0.7			2.1								
						0.4	325.0	27.4		27.4		30.2		30.2		8.0			8.0			74.5			74.4	5.0	5.0	0.6	0.6	6.0
					0.5	337.0	27.4	30.2	8.0		74.2	5.0	0.6		6.3															
					B	0.2	317.0	26.3	26.3	32.1	32.1	7.9	7.9	49.8	49.9	3.4	3.4	7.5	7.5	33.6										
						0.2	334.0	26.3		32.1		7.9		49.9		3.4		7.5		36.3										
0.1	309.0	29.8	29.8	13.2		13.2	8.1	8.1	99.9	7.1	7.1	2.6	2.6	5.7																
E4	Cloudy	Calm	13:28	11.9	S	0.1	314.0	29.8	29.8	13.2	13.2	8.1	8.1	99.8	99.9	7.0	7.1	5.9	2.6	2.6	6.9	5.4	5.6	8.9						
						0.3	23.0	27.2		27.2		29.6		29.6		8.0			8.0			69.3			69.2	4.7	4.7	1.3		
						0.4	24.0	27.2		29.6		8.0				69.1						4.6				1.4		10.2		
					B	0.2	46.0	26.2	26.2	32.2	32.2	7.9	7.9	50.1	50.3	3.4	3.4	16.5	16.6	10.5										
						0.2	48.0	26.2		32.2		7.9		50.4		3.4		16.7		11.9										
						1.6	192.5	29.3	29.3	12.2	12.9	7.8	7.8	74.5	75.2	5.3	5.4	5.4	5.4	3.5										
E5	Cloudy	Calm	09:55	5.5	S	0.8	267.8	29.3	29.3	13.5	13.5	7.8	7.8	75.9	75.2	5.4	5.4	5.4	5.4	5.4	5.1	3.4	3.5	5.0						
						0.9	292.8	28.4		23.4		23.4		7.8		7.8			67.9			66.5			4.6	4.5	4.9	4.9	6.1	
						0.4	10.1	28.4		23.4				7.8					65.2						4.5		4.9		6.8	
					B	0.7	114.8	29.8	29.9	13.1	13.1	7.8	7.8	73.1	75.0	5.2	5.3	8.2	8.0	6.0										
						0.7	114.8	30.0		13.1		7.8		76.9		5.4		7.9		6.5										
						0.7	221.0	27.6	27.6	25.8	25.8	7.8	7.8	62.3	58.9	4.3	4.0	17.1	17.4	22.6										
E6	Cloudy	Calm	11:47	5.5	S	0.3	350.1	27.6		27.6		25.8		25.8		7.8		7.8		55.5	58.9	3.8	4.0	4.0	17.8	17.4	12.7	23.2	22.9	14.6
						0.7	114.8	29.8	29.9		13.1	13.1	7.8		7.8	73.1	75.0		5.2	5.3		8.2			8.0			6.0		
						0.7	114.8	30.0	29.9		13.1	13.1	7.8		7.8	76.9	75.0		5.4	5.3		7.9			8.0			6.5		
					E7A	Cloudy	Calm	12:36	5.0	S	0.7	81.7	30.1	30.1	16.8	16.7	7.8	7.8	80.3	82.0	5.5	5.6	5.6	5.5	5.0	12.9	16.1	17.1	10.2	
											1.5	53.9	30.1		16.6		7.8		83.7		5.8			4.6			18.0			
											1.0	332.2	28.3		28.3		24.0		24.0		7.7			7.7			57.3			
B	0.1	108.7	28.3	28.3						24.0	24.0	7.7	7.7	54.0	55.7	3.7	3.8	21.1	20.8	3.4										
	0.2	68.7	29.7							29.7		28.7		8.5		8.5		193.2		194.4	12.5	12.6	0.8							
	0.2	269.4	29.7	29.7						28.6	28.7	8.5	8.5	195.6	194.4	12.7	12.6	0.7	0.8	1.9										
F1	Fine	Calm	10:36	20.0	S	0.2	350.9	26.0	26.0	33.7	33.7	7.8	7.8	30.9	30.8	2.1	2.1	7.3	1.6	1.6	2.9	2.4	2.3	4.1						
						0.2	350.9	26.0		33.7		7.8		30.7		2.1			1.6			2.2								
						0.4	216.8	24.3		24.2		34.5		34.5		7.8			7.8			30.0			29.5	2.1	2.0	6.0		
					M	0.1	117.3	29.8	29.8	27.8	27.8	8.6	8.6	213.8	216.5	13.9	14.1	1.4	1.4	1.3										
						0.1	150.6	29.8		27.8		8.6		219.2		14.3		1.4		1.6										
						0.1	76.6	26.6	26.6	32.9	32.8	7.9	7.9	50.0	50.5	3.3	3.4	1.0	0.9	2.1										
0.3	44.0	26.6	32.8	7.9	51.1	3.4	0.8	2.4																						
B	0.2	4.8	24.1	24.1	34.5	34.5	7.8	7.8	39.8	39.1	2.7	2.7	9.3	9.6	14.5															
	0.2	4.8	24.1		34.5		7.8		38.5		2.7		9.8		14.8															
F2	Fine	Calm	11:09	19.0	S	0.1	117.3	29.8	29.8	27.8	27.8	8.6	8.6	213.8	216.5	13.9	14.1	8.7	1.4	1.4	3.9	1.3	1.5	6.1						
						0.1	150.6	29.8		27.8		8.6		219.2		14.3			1.4			1.6								
						0.1	76.6	26.6		26.6		32.9		32.8		7.9			7.9			50.0			50.5	3.3	3.4	1.0	0.9	2.1
					M	0.3	44.0	26.6	26.6	32.8	32.8	7.9	7.9	51.1	50.5	3.4	3.4	0.8	0.9	2.4										
						0.2	4.8	24.1		24.1		34.5		7.8		7.8		39.8		39.1	2.7	2.7	9.3							
						0.2	4.8	24.1	24.1	34.5	7.8	7.8	38.5	39.1	2.7	2.7	9.8	9.6	14.8											

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value
F3	Fine	Calm	12:39	17.7	S	0.2	355.2	29.6	29.5	24.8	25.5	8.5	8.5	202.3	207.5	13.4	13.8	9.0	1.6	1.5	3.6	4.1	3.8	7.1
						0.3	98.9	29.3		26.1		8.5		212.6		14.1			1.5			3.5		
						0.1	62.5	27.0		33.2		7.9		62.3		4.1			0.6			5.0		
					M	0.1	62.5	27.1	27.0	33.2	33.2	8.0	8.0	65.1	63.7	4.3	4.2	2.7	0.5	0.6	8.7	5.8	5.4	12.0
						0.1	49.8	25.0		34.4		7.8		40.2		2.7			8.5					
						0.1	49.8	25.0		34.4		7.8		38.7		2.6			8.9					
B	0.2	268.0	28.9	28.9	26.1	26.1	8.4	8.4	160.2	159.9	10.7	10.7	7.2	0.8	0.8	4.9	3.0	3.1	5.3					
	0.2	288.0	28.8		26.1		8.4		159.6		10.7			0.8			3.2							
	0.2	256.0	27.2		27.3		30.4		30.4		7.9			7.9			54.8			54.9	3.7	3.7	2.1	4.1
0.2	275.0	27.3	30.4	7.9		54.9	3.7	4.1																
0.3	286.0	26.1	26.1	32.6		32.6	7.8	7.8		31.4	31.6	2.1	2.1		2.1	9.6	9.7	8.6	8.3		8.6			
0.3	299.0	26.1		32.6	7.8		31.7		2.1	9.7														
0.3	299.0	26.1		32.6	7.8		31.7		2.1	9.7														
F4	Cloudy	Moderate	10:55	13.4	S	0.2	274.0	29.8	29.8	12.5	12.5	8.0	8.0	89.1	89.1	6.3	6.3	5.4	2.4	2.4	8.3	3.0	3.2	4.8
						0.2	279.0	29.8		12.5		8.0		89.1		6.3			2.4					
						0.3	45.0	27.7		27.7		27.3		27.3		7.9			7.9			67.1		
					0.3	46.0	27.7	27.2	7.9		66.9	4.5	4.1											
					0.2	25.0	26.9	26.9	30.4		30.4	7.9	7.9		55.2	55.3	3.7	3.7		3.7	18.3	18.3	8.3	7.4
					0.2	27.0	26.9		30.4	7.9		55.4		3.7	18.2									
0.2	245.1	29.5	29.5	14.9	14.0	7.9	7.8		75.0	76.9		5.3		5.4	4.7		4.7		4.7		8.1			3.6
2.2	245.1	29.6		13.2		7.8		78.7	5.6		4.6													
0.5	261.6	27.7		27.7		26.2		26.2	7.8		7.8	57.9	59.1			3.9	4.0	3.1		3.5		3.1	8.1	4.7
0.9	311.6	27.7	26.1		7.8	60.2	4.1		2.7															
0.6	18.0	26.4	26.4		29.7	29.8	7.7		7.7	53.1		50.5		3.6	3.4	3.4			15.3	16.5	8.1			18.6
0.5	292.8	26.4		29.8	7.8		47.9	3.3		17.8														
0.2	18.6	30.0		30.0	28.9		28.9	8.6		8.6	203.8		205.7	13.1			13.3	12.2	0.5			0.5	2.6	1.9
0.3	330.8	30.0	29.0		8.6	207.5		13.4	0.6															
0.2	212.6	29.5	29.5		29.6	29.6		8.4	8.4		171.7	171.4		11.1	11.1	12.2			1.1	1.0	2.6			4.5
0.4	21.0	29.6		29.6	8.4		171.1	11.1		0.9														
0.2	286.0	26.0		26.0	32.9		32.9	7.9		7.8	45.4		44.8	3.1			3.0	3.0	7.0			6.3	8.1	14.1
0.5	341.4	26.0	32.9		7.8	44.1		3.0	5.7															
0.1	93.5	29.3	29.3		29.3	29.4		8.4	8.4		170.3	170.8		11.1	11.1	9.2			1.1	1.1	3.5			3.5
1.2	230.9	29.3		29.4	8.4		171.3	11.2		1.0														
0.3	215.3	27.5		27.5	30.4		30.4	8.1		8.1	108.0		110.4	7.2			7.4	9.2	1.3			1.3	3.5	6.2
0.3	215.3	27.5	30.5		8.1	112.8		7.5	1.3															
0.1	75.6	25.9	25.8		32.5	32.5		7.8	7.8		53.5	49.9		3.6	3.4	3.4			7.9	8.2	8.7			8.5
0.3	187.1	25.8		32.6	7.8		46.2	3.1		8.5														
0.4	285.4	28.9		28.8	29.2		29.3	8.4		8.4	169.3		167.1	11.1			11.0	8.4	1.2			1.2	1.8	2.6
0.0	191.6	28.8	29.3		8.3	164.8		10.8	1.2															
0.1	182.3	27.6	27.6		30.1	30.1		8.0	8.0		87.8	88.9		5.9	5.9	8.4			1.6	1.6	1.8			4.3
0.2	322.9	27.6		30.1	8.0		90.0	6.0		1.6														
0.2	304.8	25.5		25.5	34.2		34.2	7.7		7.7	20.1		18.6	1.4			1.3	1.3	2.7			2.7	4.2	5.5
0.4	196.0	25.5	34.2		7.7	17.1		1.2	2.8															
0.1	145.9	29.0	29.2		28.4	28.3		8.4	8.4		161.5	169.0		10.6	11.1	7.3			1.2	1.3	3.2			2.6
0.3	288.2	29.3		28.1	8.4		176.6	11.6		1.4														
0.2	228.9	27.0		27.0	31.0		31.0	7.9		7.9	50.8		51.1	3.4			3.4	2.0	1.4			1.5	3.2	3.3
0.1	253.5	27.0	31.0		7.9	51.5		3.5	1.5															
0.1	348.9	25.8	25.8		33.9	33.9		7.8	7.8		30.5	29.6		2.1	2.0	2.0			6.8	6.7	4.4			5.8
0.2	235.7	25.8		33.9	7.8		28.7	1.9		6.7														
0.3	256.3	29.3		29.3	28.0		28.0	8.4		8.4	188.9		191.0	12.4			12.5	8.0	1.5			1.6	4.4	2.2
0.3	256.3	29.3	28.0		8.4	193.0		12.7	1.6															
0.3	272.4	26.6	26.6		32.6	32.5		7.9	7.9		50.7	50.9		3.4	3.4	2.5			1.5	1.4	4.4			3.4
0.3	241.0	26.6		32.5	7.9		51.1	3.4		1.3														
0.3	254.1	25.5		25.5	34.1		34.1	7.8		7.8	38.5		37.0	2.6			2.5	2.5	10.2			10.2	4.4	16.0
0.0	124.3	25.5	34.1		7.8	35.6		2.4	10.2															

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)					
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*		
IM6	Fine	Calm	12:52	16.1	S	0.2	38.2	29.3	29.3	26.8	26.8	8.5	8.5	216.1	217.6	14.3	14.3	9.1	1.6	1.6	4.0	2.1	2.3	6.4		
						0.1	55.3	29.3	26.8	219.1	8.5	26.8	14.4	1.5	2.4											
						0.1	197.7	27.1	32.1	32.0	7.9	7.9	55.1	3.7	0.9											
					M	0.4	350.1	27.2	31.9	34.2	34.3	7.8	7.8	40.9	2.8	2.7	2.7	9.7	0.8	0.8	4.1	4.5				
						0.1	107.3	25.3	34.2	34.3	7.8	7.8	40.9	2.8	2.7	2.7	9.7	0.8	0.8	4.1	4.5					
						0.3	338.8	25.2	34.3	34.3	7.8	7.8	38.2	2.6	2.7	2.7	9.7	0.8	0.8	4.1	4.5					
IM7	Fine	Calm	13:23	12.9	S	0.1	84.8	28.9	28.8	27.0	27.1	8.3	8.3	163.6	163.5	10.9	10.9	10.9	1.3	1.3	3.9	2.8	3.1	6.5		
						0.2	41.7	28.7	27.2	31.4	31.3	8.0	7.9	68.8	4.4	4.5	4.5		0.5			0.5			3.6	3.7
						0.2	341.4	27.7	31.4	31.3	8.0	7.9	66.6	4.4	4.5	4.5	0.5		0.5			3.6			3.7	
					M	0.2	341.4	27.6	31.4	31.3	8.0	7.9	66.6	4.4	4.5	4.5	0.5	0.5	3.6	3.7						
						0.3	268.1	25.4	34.1	34.1	7.8	7.8	39.8	2.7	2.7	2.7	10.0	9.8	9.8	12.0	12.8					
						0.1	244.6	25.4	34.1	34.1	7.8	7.8	38.7	2.6	2.7	2.7	10.0	9.8	9.8	12.0	12.8					
IM8	Fine	Calm	13:11	14.7	S	0.2	350.1	29.4	29.4	25.8	25.7	8.4	8.4	183.7	183.4	12.2	12.1	8.2	1.6	1.5	4.6	2.3	2.4	6.9		
						0.2	186.0	29.5	25.7	31.6	31.6	7.9	7.9	65.5	4.3	4.3	4.3		0.7			0.7			3.1	3.3
						0.4	297.2	27.5	31.6	31.6	7.9	7.9	65.6	4.4	4.3	4.3	0.7		0.7			3.1			3.3	
					M	0.2	324.3	27.5	31.6	31.6	7.9	7.9	65.6	4.4	4.3	4.3	0.7	0.7	3.1	3.3						
						0.1	299.0	25.2	34.2	34.2	7.8	7.8	39.2	2.7	2.6	2.6	11.5	11.5	11.5	15.1	15.1					
						0.1	299.0	25.2	34.2	34.2	7.8	7.8	37.4	2.5	2.6	2.6	11.5	11.5	11.5	15.1	15.1					
IM9	Cloudy	Moderate	11:30	15.1	S	0.2	15.0	29.1	29.1	21.0	21.0	8.2	8.2	116.6	116.8	8.0	8.0	6.4	1.6	1.6	4.3	3.8	3.7	6.9		
						0.2	15.0	29.1	21.0	21.0	8.2	8.2	116.9	8.0	8.0	8.0	1.3		1.3			3.5			3.3	
						0.5	281.0	27.1	30.9	30.9	8.0	8.0	71.6	4.8	4.8	4.8	1.3		1.3			4.3			4.2	
					M	0.5	297.0	27.2	30.8	30.8	8.0	8.0	71.3	4.8	4.8	4.8	1.3	1.3	4.0	4.2						
						0.3	275.0	25.2	33.5	33.5	7.9	7.9	43.0	2.9	2.9	2.9	10.0	10.0	10.0	13.0	13.0					
						0.3	294.0	25.2	33.5	33.5	7.9	7.9	43.2	2.9	2.9	2.9	10.0	10.0	10.0	13.0	13.0					
IM10	Cloudy	Calm	12:18	13.1	S	0.8	255.0	28.6	28.6	25.6	25.6	8.3	8.3	136.8	136.7	9.2	9.2	8.2	1.3	1.3	7.4	5.6	6.0	12.4		
						0.8	267.0	28.6	25.5	25.5	8.3	8.3	136.6	9.2	9.2	9.2	1.3		1.3			6.3			6.0	
						0.7	251.0	28.0	28.3	28.3	8.2	8.2	108.5	7.3	7.3	7.3	0.7		0.7			12.3			12.1	
					M	0.7	272.0	28.0	28.0	28.3	28.3	8.2	8.2	108.2	108.4	7.2	7.3	7.3	0.7	0.7	11.8	12.1				
						0.7	252.0	26.6	31.5	31.5	7.9	7.9	59.1	4.0	4.0	4.0	20.1	20.1	20.1	19.2	19.2					
						0.7	264.0	26.6	31.5	31.5	7.9	7.9	59.6	4.0	4.0	4.0	20.0	20.0	20.0	19.2	19.2					
IM11A	Cloudy	Calm	12:28	5.8	S	0.1	262.0	29.6	29.6	15.3	15.3	8.2	8.2	107.7	107.8	7.5	7.6	3.8	1.8	1.8	1.8	2.7	3.1	5.2		
						0.1	264.0	29.5	15.3	15.3	8.2	8.2	107.8	7.6	7.6	7.6	1.8		1.8			3.5			3.1	
						0.3	301.0	28.0	25.7	25.7	8.1	8.1	96.9	6.6	6.6	6.6	3.7		3.7			7.0			7.3	
					B	0.3	304.0	28.0	25.7	25.7	8.1	8.1	97.1	6.6	6.6	6.6	3.7	3.7	7.0	7.3						
						0.1	22.0	29.3	29.3	18.1	18.2	8.2	8.2	113.3	113.5	7.9	7.9	6.9	1.8	1.8	3.8	4.0				
						0.1	23.0	29.2	18.2	18.2	8.2	8.2	113.7	7.9	7.9	7.9	1.8	1.8	4.2	4.0						
IM12	Rainy	Calm	12:39	13.4	M	0.2	322.0	27.6	27.6	28.3	28.4	8.1	8.1	88.2	88.1	5.9	5.9	6.9	3.3	3.4	11.5	5.4	5.4	6.1		
						0.2	333.0	27.6	28.4	28.4	8.1	8.1	87.9	5.9	5.9	5.9	3.4		3.4			5.4			5.4	
						0.4	321.0	26.0	32.6	32.6	7.9	7.9	44.1	3.0	3.0	3.0	29.4		29.3			9.0			8.8	
					B	0.5	324.0	26.0	32.6	32.6	7.9	7.9	44.2	3.0	3.0	3.0	29.2	29.3	8.6	8.8						
						0.1	306.0	29.8	13.0	13.0	8.1	8.1	99.7	7.0	7.0	7.0	2.5	2.5	4.2	4.5						
						0.1	321.0	29.7	13.0	13.0	8.1	8.1	99.5	7.0	7.0	7.0	2.5	2.5	4.7	4.5						
IM13	Rainy	Calm	13:04	17.2	S	0.5	6.0	26.0	26.0	32.6	32.6	7.9	7.9	42.9	42.9	2.9	2.9	5.0	10.2	10.2	14.3	8.3	8.6	12.8		
						0.5	6.0	26.0	32.6	32.6	7.9	7.9	42.9	2.9	2.9	10.1	10.1		8.9			8.6				
						0.4	15.0	25.8	33.0	33.0	7.9	7.9	44.8	3.0	3.1	3.1	30.2		30.2			24.4			25.3	
					M	0.4	16.0	25.8	33.0	33.0	7.9	7.9	45.3	3.1	3.1	3.1	30.2	30.2	26.1	25.3						
						0.1	4.0	29.3	29.3	16.6	16.6	8.1	8.1	97.2	97.3	6.8	6.8	5.8	3.3	3.3	4.2	4.2				
						0.1	4.0	29.3	29.3	16.5	16.6	8.1	8.1	97.3	97.3	6.8	6.8	5.8	3.3	3.3	4.1	4.2				
IM14	Cloudy	Calm	13:17	10.9	S	0.3	15.0	27.4	27.4	29.0	29.0	8.0	8.0	70.7	70.6	4.8	4.8	5.8	3.5	3.8	9.8	9.2	8.9	11.0		
						0.3	16.0	27.4	29.0	29.0	8.0	8.0	70.5	4.7	4.7	4.7	3.8		3.8			8.6			8.9	
						0.2	56.0	26.2	32.3	32.3	7.9	7.9	48.9	3.3	3.3	3.3	22.4		22.4			21.1			20.1	
					M	0.2	56.0	26.2	32.3	32.3	7.9	7.9	48.9	3.3	3.3	3.3	22.4	22.4	21.1	20.1						
						0.2	59.0	26.2	32.3	32.3	7.9	7.9	49.6	3.3	3.3	3.3	22.3	22.4	19.0	20.1						

Water Quality Monitoring Data Log Sheet

Date: 2019/08/23

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)						
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*			
IM15	Cloudy	Calm	09:41	6.0	S	0.2	347.0	29.2	29.2	14.7	14.7	7.8	7.8	84.6	84.9	6.0	6.0	5.6	4.2	4.2	4.7	4.5	4.6	5.7			
						0.2	347.0	29.2		14.6		7.8		85.1		6.0			4.2								
						0.3	352.7	29.2	18.4	7.8	75.3	5.2	3.9														
					M	0.5	256.2	29.1	18.3	18.4	7.8	7.8	73.9	74.6	5.1	5.2	3.9	3.9	5.8	5.0		5.0	5.6		5.3		
						0.2	175.4	28.5	23.0	23.0	7.7	7.7	67.0	66.7	4.6	4.6	4.6	5.9	7.0	7.0		7.2	7.0		7.2		
						0.2	180.3	28.5	23.0	23.0	7.7	7.7	66.4	66.7	4.5	4.6	4.6	5.9	6.0	6.0		6.0	6.0		6.0		
IM16A	Cloudy	Calm	10:08	6.5	S	0.3	102.5	29.2	29.3	14.1	13.7	7.8	7.8	69.5	72.2	4.9	5.1	4.7	6.1	6.1	7.5	6.0	5.8	9.3			
						1.3	163.4	29.3		13.3		7.8		75.0		5.3			6.0								
						0.2	87.9	28.7	20.5	20.9	7.8	7.8	63.9	63.4	4.4	4.4	4.4	6.4	6.6	6.6		8.8	9.0				
					M	0.2	214.8	28.6	21.3	21.3	7.8	7.8	62.9	63.4	4.3	4.4	4.4	6.4	6.2	6.2		9.2	9.0				
						0.2	148.7	28.4	23.3	23.4	7.7	7.7	67.7	64.5	4.6	4.4	4.4	10.1	9.6	9.6		13.7	13.2				
						0.1	57.7	28.3	23.5	23.5	7.8	7.7	61.3	64.5	4.2	4.4	4.4	10.1	10.7	10.7		12.6	13.2				
IM17	Cloudy	Calm	11:09	5.0	S	0.7	217.7	29.7	29.7	13.9	13.7	7.8	7.8	74.1	76.2	5.2	5.4	5.4	7.7	7.7	8.1	6.4	6.7	7.3			
						0.7	217.7	29.7		13.4		7.8		78.2		5.5			7.8								
						0.4	124.0	28.7	21.3	21.2	7.8	7.8	72.0	68.7	5.0	4.7	4.7	8.4	8.0	8.0		7.8	7.9				
					B	0.2	43.0	28.7	21.2	21.2	7.8	7.8	65.4	68.7	4.5	4.7	4.7	8.4	8.9	8.9		7.9	7.9				
						0.3	36.0	29.8	14.3	14.3	7.9	7.8	71.4	74.4	5.0	5.2	4.3	6.5	6.6	6.6		4.7	4.5				
						0.3	36.0	29.9	14.2	14.3	7.8	7.8	77.4	74.4	5.4	5.2	4.3	6.5	6.4	6.4		7.0	6.8				
IM18	Cloudy	Calm	10:58	17.0	S	1.1	350.0	27.1	27.1	27.9	28.0	7.8	7.8	50.5	51.0	3.4	3.5	4.3	7.4	6.7	15.9	7.0	6.8	15.6			
						0.8	36.9	27.1		28.0		7.8		7.8		51.5			51.0			3.5			3.5	3.5	6.7
						0.9	67.7	26.1	30.5	30.5	7.8	7.8	46.6	45.5	3.2	3.1	3.1	34.0	34.0	34.0		35.1	35.5				
					M	0.7	199.1	26.1	30.5	30.5	7.8	7.8	44.5	45.5	3.0	3.1	3.1	34.0	35.2	35.2		35.9	35.5				
						0.2	152.5	29.2	29.2	18.0	17.9	7.8	7.8	65.6	68.7	4.6	4.8	4.0	4.8	5.0		4.8	19.3		6.5	6.1	11.5
						0.8	352.7	29.3	17.7	17.7	7.8	7.8	71.9	68.7	5.0	4.8	4.0	4.8	4.5	4.5		5.7	5.7				
0.8	11.8	27.0	27.1	27.9	27.8	7.8	7.8	48.3	47.9	3.3	3.3	4.0	6.7	7.0	7.0	9.6	9.4										
B	0.6	334.1	27.1	27.8	27.8	7.8	7.8	47.5	47.9	3.2	3.3	4.0	6.7	6.4	6.4	9.2	9.2										
	0.8	357.0	26.5	29.6	29.6	7.8	7.8	53.8	53.0	3.7	3.6	3.6	46.5	43.4	43.4	19.5	19.0										
	0.6	340.7	26.5	29.6	29.6	7.8	7.8	52.3	53.0	3.6	3.6	3.6	46.5	49.5	49.5	18.4	19.0										
IM19	Cloudy	Calm	11:26	17.5	S	0.8	80.8	30.4	30.5	18.4	18.8	7.8	7.8	79.1	80.7	5.4	5.5	5.5	10.4	10.4	11.7	5.0	5.8	10.6			
						0.8	80.8	30.5		19.2		7.8		7.8		82.2			80.7			5.6			5.6	10.4	10.4
						0.2	307.2	28.1	24.6	24.6	7.7	7.7	58.3	56.7	4.0	3.9	3.9	13.0	13.2	13.2		14.4	15.5				
					M	0.4	89.5	28.1	24.7	24.7	7.7	7.7	55.2	56.7	3.8	3.9	3.9	13.0	12.8	12.8		16.6	15.5				
						0.2	356.4	29.7	29.7	21.1	21.0	7.7	7.7	67.5	69.1	4.6	4.7	4.7	18.3	20.1		20.1	18.5		19.4		
						0.2	356.4	29.8	20.9	20.9	7.7	7.7	70.7	69.1	4.8	4.7	4.7	18.3	16.6	16.6		20.3	19.4				
B	0.9	202.8	28.6	23.4	23.4	7.7	7.7	62.0	60.7	4.2	4.1	4.1	33.9	34.1	34.1	23.8	24.3										
	0.5	50.9	28.6	23.5	23.5	7.7	7.7	59.4	60.7	4.0	4.1	4.1	33.9	33.7	33.7	24.8	24.3										
	0.4	85.0	29.8	29.8	14.7	14.7	7.9	7.9	73.2	77.9	5.1	5.5	5.5	6.4	7.1	7.1	3.4	3.4									
IM21A	Cloudy	Calm	12:13	5.0	S	0.4	85.0	29.8	29.8	14.7	14.7	7.9	7.9	73.2	77.9	5.1	5.5	5.5	6.4	11.8	3.4	3.4	12.4				
						0.4	85.0	29.8	14.8	14.7	7.8	7.8	82.6	77.9	5.8	5.5	5.5	6.4	5.6	5.6	3.4	3.4					
						0.4	235.9	27.5	26.7	26.8	7.8	7.8	67.4	61.2	4.6	4.2	4.2	17.3	15.7	15.7	21.5	21.5					
IM22A	Cloudy	Calm	12:07	4.5	B	0.3	267.0	27.5	27.5	26.8	26.8	7.8	7.8	55.0	61.2	3.7	4.2	4.2	18.8	17.3	11.8	21.4	21.5				

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/08/26

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)						
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*			
E1	Rainy	Moderate	11:38	8.1	S	0.6	187.8	27.1	27.1	25.2	25.3	8.0	8.0	79.8	79.3	5.5	5.5	5.1	1.7	1.7	4.2	3.4	3.2	5.9			
						0.7	198.7	27.0		25.5		8.0		78.9		5.5			1.6			3.0					
						0.5	209.0	26.5	26.5	28.4	28.4	7.9	7.9	67.6	67.6	4.6	4.6		1.7	1.7		5.5					
					M	0.7	186.9	26.4	25.9	28.4	32.6	7.8	7.8	28.3	26.0	4.6	1.8	1.8	9.2	8.8		9.2	1.6		9.5	5.3	9.2
						0.2	185.6	25.9		32.5		7.8		23.7		1.9		2.2		8.8							
						0.3	155.6	25.9		32.8		7.8		23.7		1.6		9.5		9.5							
E2	Rainy	Moderate	06:07	9.2	S	0.3	45.1	27.2	27.2	28.6	28.6	8.0	8.0	77.4	78.0	5.2	5.3	4.3	2.2	2.2	6.1	3.5	3.6	12.7			
						0.3	45.1	27.2		28.6		8.0		78.5		5.3			2.3			3.6					
						0.3	146.4	27.2	27.4	32.8	32.8	7.9	7.9	46.6	50.2	3.1	3.3		1.8	1.7		4.8					
					M	0.3	6.9	27.6	25.8	32.8	33.9	8.0	7.7	53.7	21.1	3.5	1.4	1.4	14.5	1.5		13.8	1.4		15.2	5.1	29.6
						0.4	106.4	25.8		33.9		7.7		21.9		1.5		30.1									
						0.1	6.6	25.8		33.9		7.7		20.3		1.4		29.0									
E3	Rainy	Moderate	07:13	17.3	S	0.1	130.9	28.6	28.5	14.9	14.7	8.1	8.1	94.4	94.8	6.7	6.8	5.1	2.5	2.5	4.3	3.2	3.0	5.6			
						0.1	130.9	28.5		14.6		8.1		95.3		6.8			2.5			2.7					
						0.3	133.6	25.3	25.3	34.2	34.2	8.0	8.0	50.1	50.1	3.4	3.4		3.1	3.0		4.5					
					M	0.3	133.6	25.3	25.1	34.2	34.2	8.0	8.0	50.0	44.9	3.4	3.0	2.9	7.3	2.9		9.2	3.4		9.2	4.7	9.2
						0.2	98.1	25.1		34.2		8.0		45.6		3.1		7.4		8.5							
						0.3	160.2	25.2		34.2		8.0		44.2		3.0		7.2		9.8							
E4	Rainy	Calm	10:01	11.0	S	1.0	190.2	28.3	28.3	14.9	14.9	7.9	7.9	85.8	88.3	6.1	6.3	4.9	1.5	1.5	8.0	4.6	4.6	12.3			
						1.0	190.2	28.3		14.9		7.9		90.9		6.5			1.4			4.6					
						1.8	194.6	26.9	27.1	25.9	25.7	7.8	7.8	46.6	49.8	3.2	3.4		6.4	5.9		10.1					
					M	1.1	169.1	27.4	25.8	25.5	33.1	7.8	7.7	53.0	37.2	3.7	2.5	5.4	16.6	3.7		22.7	5.4		22.7	9.4	9.8
						0.9	200.4	25.8		33.1		7.7		39.7		2.7		15.6		22.6							
						1.0	197.1	25.8		33.1		7.7		34.6		2.3		17.6		22.7							
E5	Rainy	Calm	08:54	6.0	S	0.7	174.2	28.4	28.4	13.9	13.9	7.9	7.9	88.7	88.6	6.4	6.4	6.1	2.5	2.5	2.0	2.4	2.6	4.5			
						0.7	174.2	28.4		14.0		7.9		88.6		6.4			2.5			2.8					
						0.5	172.2	28.5	28.5	16.4	16.4	7.8	7.8	79.2	81.1	5.6	5.7		2.1	2.0		2.5					
					M	0.5	172.2	28.5	27.3	16.4	26.9	7.8	7.7	83.0	101.3	5.9	6.9	1.9	1.6	1.9		8.2	5.9		8.2	2.6	2.6
						0.1	111.4	27.3		26.9		7.7		101.2		6.9		1.6		8.0							
						0.5	166.1	27.3		26.9		7.7		101.3		6.9		1.6		8.4							
E6	Rainy	Calm	06:59	6.5	S	4.2	287.1	28.2	28.2	14.6	14.6	7.8	7.8	83.6	83.7	6.0	6.0	5.8	3.4	3.4	4.1	4.3	4.5	6.4			
						4.2	287.1	28.2		14.6		7.8		83.8		6.0			3.4			4.7					
						0.7	222.8	28.2	28.2	16.1	16.1	7.8	7.8	77.9	79.4	5.6	5.7		3.7	3.6		5.1					
					M	0.7	222.8	28.2	27.6	16.1	23.6	7.8	7.7	80.9	67.8	5.8	4.7	3.5	5.2	5.2		4.7	5.2		9.3	9.5	9.4
						0.2	252.8	27.5		22.8		7.7		60.4		4.2		5.7		9.3							
						0.2	252.8	27.5		22.8		7.7		60.4		4.2		5.7		9.3							
E7A	Rainy	Calm	06:11	5.5	S	0.4	265.7	28.5	28.4	16.4	16.3	7.6	7.6	81.6	81.7	5.8	5.8	5.8	3.3	3.3	3.4	3.5	3.7	4.1			
						0.7	295.4	28.4		16.3		7.7		81.8		5.8			3.3			3.9					
						0.6	147.2	28.5	28.4	17.6	17.1	7.4	7.4	76.3	78.7	5.4	5.6		3.7	3.6		4.2					
					B	0.1	236.1	28.3	27.3	16.7	27.5	7.5	7.4	81.0	106.4	5.8	5.6	3.4	5.6	3.4		5.6	4.7		5.6	4.7	4.5
						0.5	189.2	27.3		27.5		8.2		105.5		7.2		1.7		3.8							
						0.5	189.2	27.3		27.5		8.2		107.2		7.3		1.7		4.3							
F1	Rainy	Moderate	10:40	20.1	S	0.5	189.2	27.3	27.3	27.5	27.5	8.2	8.2	105.5	106.4	7.2	7.2	5.1	1.7	1.7	5.8	3.8	4.1	8.9			
						0.6	108.3	25.4		34.2		7.9		42.4		2.9			3.0			4.7					
						0.4	99.9	25.5	34.1	8.0	47.0	3.2	1.4	5.7													
					M	0.4	141.8	23.5	23.5	34.5	34.5	7.9	7.9	39.6	39.2	2.8	2.7	2.7	14.1	2.7		14.0	14.1		14.1	18.7	17.5
						0.4	182.7	23.5		34.5		7.9		38.7		2.7		14.0		16.2							
						0.4	182.7	23.5		34.5		7.9		38.7		2.7		14.0		16.2							
F2	Rainy	Moderate	10:06	19.0	S	0.8	319.2	27.8	27.8	28.8	28.8	8.1	8.1	90.6	90.7	6.1	6.1	5.5	1.0	1.0	3.8	0.5	1.1	6.0			
						0.8	319.2	27.8		28.8		8.1		90.8		6.1			1.0			1.6					
						0.6	89.8	26.8	26.8	33.9	33.9	8.1	8.1	72.8	73.4	4.8	4.9		0.5	0.5		0.5					
					M	0.6	89.8	26.8	24.5	33.9	34.3	8.1	7.9	74.1	50.9	4.9	3.5	9.6	9.8	0.5		10.0	0.5		17.4	0.5	16.6
						0.1	333.1	24.5		34.3		7.9		51.4		3.5		15.7									
						0.1	56.3	24.5		34.3		7.9		50.3		3.5		17.4									

Water Quality Monitoring Data Log Sheet

Date: 2019/08/26

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Rainy	Moderate	08:38	18.0	S	0.3	87.4	27.7	27.7	26.9	26.9	8.1	8.1	87.3	87.5	5.9	5.9	5.5	1.1	1.1	4.1	1.9	1.6	3.3
						0.3	87.4	27.7	26.9	26.9	8.1	8.1	87.8	87.5	6.0	6.0	5.5	1.1	1.3					
						0.5	94.3	26.7	26.8	33.9	33.9	8.1	8.1	75.3	76.0	5.0	5.0	5.5	0.7	1.1				
					M	0.1	101.4	26.9	26.8	33.9	33.9	8.1	8.1	76.8	76.0	5.1	5.1	5.5	0.6	0.7		1.7		
						0.1	269.2	23.9	23.9	34.5	34.5	7.9	7.9	41.3	40.9	2.9	2.8	2.8	11.2	10.5		7.5		
						0.1	62.7	24.0	23.9	34.5	34.5	7.9	7.9	40.5	40.9	2.8	2.8	2.8	9.7	10.5		6.5		
F4	Rainy	Moderate	06:36	13.9	S	0.1	109.8	27.1	27.1	25.8	25.9	8.0	8.0	89.7	89.6	6.2	6.2	4.3	2.1	2.0	3.8	2.5	2.4	4.5
						0.1	109.8	27.1	27.1	26.0	26.0	8.0	8.0	89.5	89.6	6.2	6.2	4.3	2.0	2.3				
						0.2	101.0	25.8	25.8	34.0	34.0	7.9	7.9	37.1	37.0	2.5	2.5	4.3	4.4	4.2		3.4		
					M	0.2	59.9	25.8	25.8	34.0	34.0	7.9	7.9	37.0	37.0	2.5	2.5	4.3	4.0	4.2		4.3		
						0.1	307.1	25.7	25.7	34.0	34.0	7.9	7.9	35.4	34.9	2.4	2.4	2.4	5.3	5.2		6.7		
						0.1	307.1	25.7	25.7	34.0	34.0	7.9	7.9	34.5	34.9	2.3	2.4	2.4	5.1	5.2		7.7		
F5	Rainy	Calm	09:31	6.0	S	0.8	337.1	28.3	28.3	16.3	16.1	7.9	7.9	92.0	92.1	6.5	6.6	6.5	1.3	1.2	1.8	1.3	1.2	1.8
						0.4	149.8	28.3	28.3	15.9	16.4	7.9	7.9	92.2	92.1	6.6	6.6	6.5	1.2	1.0				
						1.0	164.4	28.3	28.3	16.4	16.4	7.9	7.9	90.4	90.9	6.4	6.5	6.5	1.6	1.4		1.8		
					M	0.7	237.0	28.3	28.3	16.3	17.9	7.9	7.9	91.4	90.9	6.5	6.5	6.5	1.2	1.4		1.0		
						0.6	205.6	28.3	28.3	18.1	17.9	7.9	7.9	87.3	86.8	6.2	6.1	6.1	2.8	2.7		2.7		
						1.0	188.4	28.3	28.3	17.7	17.9	7.9	7.9	86.2	86.8	6.1	6.1	6.1	2.6	2.7		2.8		
F6	Rainy	Calm	08:13	14.5	S	1.7	111.5	28.2	28.2	16.0	16.0	7.8	7.8	81.2	83.3	5.8	5.9	4.8	2.6	2.7	4.6	2.4	2.0	4.2
						1.7	111.5	28.2	28.2	15.9	16.0	7.8	7.8	85.4	83.3	6.1	6.1	4.8	2.8	2.7		1.5		
						0.9	141.1	26.8	26.9	27.9	27.7	7.8	7.8	54.0	54.7	3.7	3.7	4.8	2.8	2.7		2.8		
					M	0.1	10.4	27.0	26.9	27.4	27.7	7.8	7.8	55.4	54.7	3.8	3.7	4.8	2.6	2.7		1.8		
						0.1	334.2	25.6	25.6	30.9	30.8	7.7	7.7	50.5	47.4	3.5	3.3	3.3	7.8	8.3		8.3		
						0.4	184.0	25.6	25.6	30.8	30.8	7.7	7.7	44.3	47.4	3.0	3.0	3.3	8.9	8.3		8.5		
IM1	Rainy	Moderate	11:00	9.6	S	0.2	137.3	27.4	27.4	27.9	27.8	8.1	8.1	102.0	102.9	6.9	7.0	4.8	1.8	1.8	5.5	2.5	2.5	11.8
						0.2	137.3	27.4	27.4	27.7	27.8	8.1	8.1	103.8	102.9	7.0	7.0	4.8	1.9	1.8		2.5		
						0.5	145.1	26.0	26.2	33.4	33.2	7.9	7.9	38.8	40.3	2.6	2.7	4.8	1.9	1.6		3.3		
					M	0.2	230.8	26.4	26.2	33.0	33.2	7.9	7.9	41.8	40.3	2.8	2.7	4.8	1.4	1.6		3.1		
						0.2	212.0	24.5	24.5	34.3	34.3	7.9	7.9	40.5	39.1	2.8	2.7	2.7	12.2	13.0		31.1		
						0.0	229.4	24.5	24.5	34.3	34.3	7.9	7.9	37.6	39.1	2.6	2.7	2.7	13.8	13.0		28.0		
IM2	Rainy	Moderate	11:24	11.1	S	0.6	191.6	27.0	27.0	24.8	24.8	8.0	8.0	89.5	89.5	6.2	6.2	5.5	1.5	1.5	5.2	1.6	1.8	8.0
						0.6	191.6	27.0	27.0	24.9	24.8	8.0	8.0	89.4	89.5	6.2	6.2	5.5	1.5	1.5		1.9		
						0.7	207.6	26.5	26.5	29.1	29.1	8.0	8.0	70.8	71.1	4.8	4.9	5.5	1.9	1.8		4.2		
					M	0.7	192.5	26.5	26.5	29.0	29.1	8.0	8.0	71.4	71.1	4.9	4.9	5.5	1.7	1.8		4.7		
						0.1	94.8	24.9	24.8	33.9	34.0	7.8	7.8	25.8	25.0	1.8	1.7	1.7	11.0	12.2		17.9		
						0.0	184.6	24.7	24.8	34.1	34.0	7.8	7.8	24.2	25.0	1.7	1.7	1.7	13.5	12.2		17.6		
IM3	Rainy	Moderate	09:41	14.4	S	0.2	353.0	27.3	27.3	29.0	28.9	8.1	8.1	92.3	93.0	6.2	6.3	4.2	1.2	1.2	3.5	1.4	1.5	6.4
						0.2	353.0	27.3	27.3	28.9	28.9	8.1	8.1	93.7	93.0	6.3	6.3	4.2	1.1	1.2		1.5		
						0.4	100.1	25.9	26.0	33.8	33.8	7.9	7.9	35.1	33.1	2.4	2.2	4.2	1.6	1.6		2.8		
					M	0.1	94.9	26.0	26.0	33.7	33.8	7.9	7.9	31.2	33.1	2.1	2.2	4.2	1.7	1.6		2.7		
						0.4	32.7	24.7	24.7	34.3	34.3	7.8	7.8	27.3	26.6	1.9	1.8	1.8	7.8	7.8		14.4		
						0.4	100.8	24.7	24.7	34.3	34.3	7.8	7.8	25.9	26.6	1.8	1.8	1.8	7.8	7.8		15.8		
IM4	Rainy	Moderate	09:19	16.4	S	0.9	22.8	27.3	27.3	29.5	29.3	8.1	8.1	80.4	81.9	5.4	5.5	4.5	1.3	1.3	3.2	3.6	3.5	8.0
						0.9	22.8	27.3	27.3	29.1	29.3	8.1	8.1	83.3	81.9	5.6	5.5	4.5	1.3	1.3		3.4		
						0.5	108.6	26.1	26.1	34.0	34.0	8.0	8.0	51.3	52.1	3.4	3.5	4.5	1.5	1.5		5.6		
					M	0.4	129.8	26.1	26.1	34.0	34.0	8.0	8.0	52.9	52.1	3.5	3.5	4.5	1.4	1.5		5.5		
						0.2	112.1	25.0	25.0	34.2	34.2	7.8	7.8	23.7	22.9	1.6	1.6	1.6	6.9	7.0		14.0		
						0.2	112.1	25.0	25.0	34.2	34.2	7.8	7.8	22.1	22.9	1.5	1.6	1.6	7.1	7.0		15.8		
IM5	Rainy	Moderate	08:59	15.2	S	0.7	115.0	27.0	27.0	25.7	25.6	8.1	8.1	92.3	92.9	6.4	6.4	5.2	1.8	1.9	6.4	4.8	4.6	11.1
						0.7	115.0	27.0	27.0	25.5	25.6	8.1	8.1	93.5	92.9	6.5	6.5	5.2	2.0	1.9		4.4		
						0.3	82.0	25.4	25.5	34.3	34.2	8.0	8.0	56.6	59.0	3.8	4.0	5.2	1.5	1.4		5.7		
					M	0.3	13.0	25.6	25.5	34.2	34.2	8.0	8.0	61.4	59.0	4.1	4.0	5.2	1.2	1.4		5.2		
						0.1	111.6	24.5	24.5	34.4	34.4	7.9	7.9	43.7	43.0	3.0	3.0	3.0	15.5	15.9		22.5		
						0.2	248.9	24.5	24.5	34.4	34.4	7.9	7.9	42.4	43.0	2.9	3.0	3.0	16.3	15.9		24.1		

Water Quality Monitoring Data Log Sheet

Date: 2019/08/26

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)									
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*				
IM6	Rainy	Moderate	08:26	16.2	S	0.3	96.3	27.4	27.4	25.4	25.4	8.1	8.1	92.1	92.5	6.3	6.4	5.6	5.6	1.2	1.3	4.7	3.2	3.0	7.9					
						0.3	96.3	27.4		25.4		8.1		92.9		6.4		1.3												
						0.4	96.4	26.4		33.9		8.1		72.7		4.8		0.7												
					M	0.4	95.3	26.2	34.0	8.1	8.1	71.0	4.7	4.8	0.9	0.8	4.6	4.4	4.2	16.3										
						0.3	115.6	24.0	34.5	34.5	7.9	7.9	40.2	2.8	2.7	2.7	11.7	12.0	15.2											
						0.1	123.7	24.0	34.5	34.5	7.9	7.9	38.7	2.7	2.7	2.7	11.7	12.4	15.2											
IM7	Rainy	Moderate	07:58	13.0	S	0.2	45.6	27.6	27.6	28.8	28.8	8.1	8.1	72.8	73.0	4.9	4.9	4.2	4.2	1.1	1.1	5.2	3.2	3.4	10.2					
						0.2	45.6	27.7		28.7		8.1		73.2		4.9		1.1												
						0.5	109.7	26.1		33.8		8.0		54.0		3.6		1.5												
					M	0.5	85.1	26.0	33.9	33.9	8.0	8.0	52.7	53.4	3.5	3.6	1.4	1.4	4.3	4.3										
						0.2	33.5	24.6	34.4	34.4	8.0	8.0	51.2	50.7	3.5	3.5	3.5	13.6	13.1	21.1	23.1									
						0.3	81.0	24.6	34.4	34.4	8.0	8.0	50.2	50.7	3.4	3.5	3.5	12.6	13.1	25.0	23.1									
IM8	Rainy	Moderate	08:09	14.7	S	0.2	18.2	27.6	27.6	25.2	25.3	8.0	8.0	81.5	81.4	5.6	5.6	4.8	4.8	1.6	1.6	8.3	3.6	3.3	13.6					
						0.4	175.6	27.6		25.4		8.0		81.3		5.6		1.5												
						0.3	47.7	25.6		34.1		34.1		8.0		8.0		58.2		58.8			3.9			4.0	2.3	2.1	7.4	7.2
					M	0.2	36.3	25.7	34.1	34.1	8.0	8.0	59.4	59.8	4.0	4.0	1.9	2.1	6.9	7.2										
						0.8	122.8	24.7	34.4	34.4	8.0	8.0	49.5	49.1	3.4	3.4	20.0	21.4	28.8	30.2										
						0.2	118.1	24.7	34.4	34.4	8.0	8.0	48.7	49.1	3.3	3.4	22.7	21.4	31.6	30.2										
IM9	Rainy	Moderate	07:38	15.2	S	0.4	103.6	27.8	27.8	23.2	23.2	8.1	8.0	79.7	80.0	5.5	5.5	4.8	4.8	1.8	1.8	4.2	3.6	3.4	6.8					
						0.4	103.6	27.8		23.2		8.0		80.2		5.5		1.8												
						0.5	124.6	26.0		33.9		33.9		8.0		8.0		60.2		60.3			4.0			4.0	1.9	1.8	4.3	4.4
					M	0.6	90.6	26.0	33.9	33.9	8.0	8.0	60.4	60.3	4.1	4.0	1.7	1.8	4.5	4.4										
						0.4	97.9	24.9	34.4	34.4	8.0	8.0	52.2	51.6	3.6	3.5	8.8	9.0	13.4	12.7										
						0.4	97.9	24.9	34.4	34.4	8.0	8.0	51.0	51.6	3.5	3.5	9.2	9.0	12.0	12.7										
IM10	Rainy	Calm	11:08	11.0	S	0.5	170.9	26.7	26.6	25.9	26.0	7.8	7.8	62.7	66.0	4.3	4.6	3.4	3.4	5.6	5.3	18.1	10.4	10.8	29.1					
						0.1	184.8	26.5		26.1		7.8		69.4		4.8		4.9												
						0.2	57.4	25.1		34.1		34.1		7.7		7.7		32.8		32.5			2.2			2.2	18.6	17.5	22.5	24.6
					M	0.5	122.6	25.1	34.1	34.1	7.7	7.7	32.2	32.5	2.2	2.2	16.4	17.5	26.6	24.6										
						0.6	347.8	25.1	34.1	34.1	7.7	7.7	35.9	35.1	2.4	2.4	32.7	31.7	50.4	51.9										
						0.6	38.6	25.1	34.1	34.1	7.7	7.7	34.3	35.1	2.3	2.4	30.6	31.7	53.4	51.9										
IM11A	Rainy	Calm	10:57	4.5	S	0.5	229.5	27.7	27.7	17.4	17.2	7.9	7.9	54.5	59.4	3.9	4.2	4.2	4.2	30.9	27.8	38.0	24.4	24.2	30.9					
						0.5	229.5	27.8		17.0		7.9		64.2		4.6		24.6												
						0.9	175.5	25.4		33.5		33.2		7.7		7.7		36.3		35.1			2.5			2.4	52.3	48.2	36.8	37.7
					B	0.5	73.4	25.6	33.0	33.2	7.7	7.7	33.9	35.1	2.3	2.4	44.1	48.2	38.5	37.7										
						1.3	172.6	28.4	13.7	13.7	7.9	7.9	88.6	90.0	6.4	6.5	2.5	2.4	2.9	2.7										
						0.5	209.7	28.4	13.7	13.7	7.9	7.9	91.4	90.0	6.6	6.5	2.3	2.4	2.4	2.7										
IM12	Rainy	Calm	10:47	12.5	M	2.1	210.6	25.7	25.7	33.3	33.3	7.7	7.7	31.7	31.5	2.1	2.1	4.3	4.3	33.4	33.0	42.6	41.0	45.7						
						1.1	183.1	25.7		33.3		33.3		7.7		7.7		31.3		31.5		2.1			2.1	32.7	33.0	39.4	41.0	
						0.8	148.8	25.5		33.6		33.6		7.7		7.7		38.7		36.6		2.6			2.5	62.0	65.1	95.5	93.6	
					B	0.4	86.7	25.5	33.6	33.6	7.7	7.7	34.5	36.6	2.3	2.5	68.2	65.1	91.6	93.6										
						0.8	168.7	28.4	13.8	13.8	7.9	7.9	86.5	88.9	6.2	6.4	2.4	2.1	3.5	3.3										
						0.8	222.4	28.4	13.8	13.8	7.9	7.9	91.3	88.9	6.6	6.4	1.9	2.1	3.1	3.3										
IM13	Rainy	Calm	10:25	16.5	S	0.9	166.5	26.2	26.2	32.1	32.2	7.7	7.7	37.6	37.4	2.5	2.5	4.5	4.5	7.9	7.5	12.5	10.7	10.5	15.5					
						1.1	206.5	26.1		32.4		32.2		7.7		7.7		37.2		37.4			2.5			2.5	7.2	7.5		
						0.6	261.0	25.8		33.1		33.1		7.7		7.7		38.5		36.8			2.6			2.5	27.4	27.8	31.8	32.8
					M	0.9	167.1	25.8	33.1	33.1	7.7	7.7	35.0	36.8	2.4	2.5	28.1	27.8	33.8	32.8										
						0.3	84.6	28.4	14.2	14.2	7.9	7.9	92.2	92.3	6.6	6.6	1.7	1.7	2.6	2.5										
						0.6	213.0	28.4	14.2	14.2	7.9	7.9	92.5	92.3	6.7	6.6	1.8	1.7	2.4	2.5										
IM14	Rainy	Calm	10:12	10.5	M	1.0	212.8	28.4	28.4	15.3	15.4	7.9	7.9	85.8	87.2	6.1	6.2	6.4	6.4	2.9	2.6	14.1	4.0	4.0	18.7					
						0.3	185.2	28.4		15.4		15.4		7.9		7.9		88.6		87.2			6.3			6.2	2.2	2.6	3.9	4.0
						1.0	154.6	26.1		32.4		32.4		7.7		7.7		51.1		44.9			3.5			3.0	35.1	38.1	50.3	49.8
					B	1.0	181.5	26.1	32.3	32.4	7.7	7.7	38.8	44.9	2.6	3.0	41.2	38.1	49.2	49.8										

Water Quality Monitoring Data Log Sheet

Date: 2019/08/26

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM15	Rainy	Calm	09:08	6.5	S	0.5	134.6	28.4	28.4	14.0	14.0	7.9	7.9	88.0	88.6	6.3	6.4	5.9	2.3	2.2	3.4	3.0	3.3	5.9
						0.5	134.6	28.4	14.0	14.0	7.9	7.9	89.1	89.1	6.4	6.4	5.9	2.2	2.2	3.5				
						1.7	202.6	28.2	28.2	19.0	19.4	7.8	7.8	76.4	76.8	5.4	5.4	5.9	2.2	2.0		4.0		
					M	0.7	238.2	28.2	28.2	19.8	19.8	7.8	7.8	77.2	77.2	5.4	5.4	5.9	2.2	2.0	4.4	4.2		
						B	0.4	177.8	27.0	26.9	28.0	28.0	7.7	7.7	66.0	60.0	4.5	4.1	4.1	5.6	5.9	9.8	10.2	
							0.4	240.1	26.9	26.9	28.0	28.0	7.7	7.7	54.1	54.1	3.7	3.7	4.1	6.2	6.2	10.5	10.2	
IM16A	Rainy	Calm	08:39	7.5	S	0.4	204.4	28.3	28.3	13.3	13.3	7.9	7.9	89.0	89.1	6.4	6.4	6.2	2.6	2.6	6.1	7.7	7.5	11.3
						1.7	180.3	28.3	28.3	13.3	13.3	7.9	7.9	89.2	89.1	6.4	6.4	6.2	2.6	2.6		7.2		
						0.2	339.6	28.4	28.4	14.4	14.3	7.8	7.8	81.0	82.7	5.8	5.9	6.2	4.8	4.5		8.4	8.2	
					M	1.3	209.1	28.4	28.4	14.2	14.3	7.8	7.8	84.3	82.7	6.1	5.9	6.2	4.8	4.5	8.0	8.2		
						B	0.6	292.6	27.1	27.1	27.3	27.3	7.7	7.7	54.9	52.5	3.7	3.6	3.6	10.8	11.3	17.3	18.3	
							0.8	4.4	27.1	27.1	27.3	27.3	7.7	7.7	50.1	52.5	3.4	3.6	3.6	11.9	11.3	19.3	18.3	
IM17	Rainy	Calm	07:36	5.5	S	0.4	149.7	28.3	28.3	13.0	13.0	7.9	7.9	86.3	86.6	6.3	6.3	6.3	3.4	3.3	3.0	2.9	2.8	4.9
						0.5	148.6	28.3	28.3	13.0	13.0	7.9	7.9	86.8	86.6	6.3	6.3	6.3	3.2	3.3		2.7	2.8	
					B	0.1	106.4	28.3	28.3	17.6	17.6	7.8	7.8	83.7	82.0	5.9	5.8	5.8	2.7	2.7	6.6	6.9		
						0.7	126.8	28.2	28.3	17.7	17.7	7.8	7.8	80.2	82.0	5.7	5.8	5.8	2.7	2.7	7.2	6.9		
IM18	Rainy	Calm	07:48	18.0	S	0.9	68.9	28.3	28.3	13.9	13.9	7.9	7.9	80.8	82.8	5.8	6.0	4.8	2.9	2.9	5.2	6.2	6.2	10.5
						0.9	68.9	28.3	28.3	14.0	13.9	7.9	7.9	84.8	82.8	6.1	6.0	4.8	2.9	2.9		6.1	6.2	
						0.7	105.6	27.1	27.1	27.0	27.0	7.7	7.7	52.0	53.0	3.6	3.6	4.8	3.6	3.3		11.1	11.4	
					M	0.6	261.9	27.1	27.1	27.0	27.0	7.7	7.7	54.0	53.0	3.7	3.6	4.8	3.0	3.3	11.7	11.4		
						B	0.7	297.0	25.1	25.1	31.8	31.8	7.7	7.7	43.0	41.6	3.0	2.9	2.9	9.0	9.3	13.1	13.9	
							0.6	92.5	25.1	25.1	31.8	31.8	7.7	7.7	40.2	41.6	2.8	2.9	2.9	9.6	9.3	14.6	13.9	
IM19	Rainy	Calm	07:18	18.0	S	0.5	131.2	28.2	28.2	15.2	15.1	7.9	7.8	80.3	82.2	5.8	5.9	4.6	3.1	3.0	4.3	6.0	5.6	7.4
						1.6	163.4	28.2	28.2	15.0	15.1	7.8	7.8	84.1	82.2	6.0	6.0	4.6	2.9	3.0		5.2	5.6	
						0.6	154.7	26.7	26.7	28.3	28.3	7.7	7.7	46.6	47.7	3.2	3.3	4.6	4.6	4.7		7.6	7.5	
					M	0.6	166.7	26.7	26.7	28.4	28.4	7.7	7.7	48.8	47.7	3.3	3.3	4.6	4.9	4.7	7.4	7.5		
						B	0.2	345.9	25.0	25.0	31.9	32.0	7.7	7.7	46.0	43.8	3.2	3.0	3.0	4.5	5.1	9.0	9.2	
							0.4	32.5	25.0	25.0	32.0	32.0	7.7	7.7	41.6	43.8	2.9	3.0	3.0	5.6	5.1	9.4	9.2	
IM20A	Rainy	Calm	06:24	5.0	S	0.8	53.6	28.4	28.4	15.8	15.7	7.7	7.7	83.8	83.8	6.0	6.0	6.0	3.0	3.0	3.1	5.6	5.5	6.0
						0.8	53.6	28.4	28.4	15.6	15.7	7.7	7.7	83.8	83.8	6.0	6.0	6.0	3.0	3.0		5.3	5.5	
					B	0.7	175.7	28.3	28.3	17.2	17.2	7.7	7.7	84.5	83.4	6.0	5.9	5.9	3.1	3.2	6.7	6.6		
						0.7	175.7	28.3	28.3	17.1	17.2	7.7	7.7	82.4	83.4	5.8	5.9	5.9	3.3	3.2	6.5	6.6		
IM21A	Rainy	Calm	06:33	5.5	S	2.8	252.1	28.5	28.5	16.6	16.6	7.7	7.7	81.1	81.2	5.7	5.8	5.8	4.6	4.5	5.4	6.5	6.8	8.4
						2.8	252.1	28.5	28.5	16.6	16.6	7.8	7.7	81.3	81.2	5.8	5.8	5.8	4.4	4.5		7.1	6.8	
					B	2.5	219.4	28.5	28.5	17.5	17.5	7.7	7.7	84.0	82.1	5.9	5.8	5.8	6.0	6.4	10.3	10.0		
						0.7	186.7	28.5	28.5	17.6	17.5	7.7	7.7	80.3	82.1	5.7	5.8	5.8	6.8	6.4	9.6	10.0		
IM22A	Rainy	Calm	06:39	5.0	S	0.5	241.6	29.2	29.2	17.7	17.7	7.7	7.7	83.4	83.2	5.8	5.8	5.8	6.8	6.8	6.8	9.6	10.0	11.7
						0.5	241.6	29.1	29.1	17.7	17.7	7.7	7.7	83.0	83.2	5.8	5.8	5.8	6.9	6.8		10.4	10.0	
					B	0.5	127.8	29.1	29.1	17.7	17.7	7.7	7.7	86.5	85.1	6.0	5.9	5.9	6.6	6.8	13.0	13.3		
						0.4	217.7	29.1	29.1	17.7	17.7	7.7	7.7	83.7	85.1	5.8	5.9	5.9	7.0	6.8	13.6	13.3		

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: 2019/08/26

Tide: Mid-Flood

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)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
E1	Rainy	Moderate	13:37	8.7	S	5.1	144.5	26.7	26.6	26.2	26.4	7.8	7.8	78.4	76.3	5.4	5.3	4.6	2.9	3.1	3.7	3.4	6.9
						5.1	144.5	26.6		26.7		7.8		74.1		5.1			3.3			3.5	
						0.5	197.6	25.7	29.8	7.8	58.6	4.0	3.7	7.6									
					M	0.6	205.9	25.7	30.0	29.9	7.8	7.8	57.8	58.2	4.0	4.0	3.9	3.8	7.6				
						0.4	209.5	25.7	31.0	31.1	7.5	7.5	51.3	49.4	3.5	3.4	4.1	4.2	8.5	8.1			
						0.6	262.0	25.7	31.2		7.6	47.5	3.3		3.3		9.8						
B	0.1	235.3	27.4	27.0	27.4	8.1	8.1	120.7	121.2	8.2	8.2	1.6	1.5	8.8	9.3								
	0.3	316.3	27.4	26.9		8.1		121.8		8.3		4.2		1.2									
	0.3	191.5	27.4	29.0	29.0	8.1	8.1	100.4	100.6	6.8	6.8	1.6	1.5	2.2	1.7								
E2	Rainy	Moderate	19:05	8.5	S	0.1	240.4	27.4	27.4	29.0	29.0	8.1	8.1	100.9	100.6	6.8	6.8	7.5	1.4	1.5	3.9	3.0	7.8
						0.3	326.2	27.2		30.5		8.0		7.9		69.6			69.2			4.6	
						0.3	91.1	27.2	30.9	30.7	7.9	7.9	69.6	69.2	4.6	4.6	8.8	8.7	3.0	18.5			
					M	0.3	326.2	27.2	30.5	27.2	7.9	7.9	69.6	69.2	4.6	4.6	8.8	8.7	34.0	18.5			
						0.3	274.4	25.7	33.8		33.8		7.9		7.9		51.1		50.6			3.4	
						0.3	274.4	25.7	33.8	33.8	7.9	7.9	50.2	50.6	3.4	3.4	25.4	25.5	31.7				
E3	Rainy	Moderate	18:04	16.3	S	0.5	326.4	28.1	28.3	20.6	19.0	8.0	8.0	91.7	92.8	6.4	6.5	5.0	2.6	2.5	11.4	7.5	16.0
						0.5	326.4	28.5		17.4		8.0		94.0		6.6			2.5			6.5	
						0.4	325.7	26.1	32.5	32.6	7.9	7.9	51.7	51.7	3.5	3.5	6.2	6.2	8.2	8.7			
					M	0.5	332.1	26.0	32.8	26.0	7.9	7.9	51.8	51.7	3.5	3.5	6.2	6.2	9.2	8.7			
						0.3	274.4	25.7	33.8		33.8		7.9		7.9		51.1		50.6			3.4	
						0.3	274.4	25.7	33.8	33.8	7.9	7.9	50.2	50.6	3.4	3.4	25.4	25.5	31.7				
E4	Rainy	Calm	14:46	10.5	S	0.4	345.8	28.6	28.6	14.3	14.3	8.0	8.0	91.2	91.6	6.5	6.6	6.0	2.2	2.2	5.6	2.1	8.2
						0.4	345.8	28.6		14.3		8.0		92.1		6.6			2.3			2.9	
						0.3	262.7	28.2	17.7	18.3	7.9	7.9	71.8	75.8	5.1	5.4	4.8	4.3	7.4	7.9			
					M	0.7	130.7	28.0	19.0	28.1	7.9	7.9	79.8	75.8	5.6	5.4	3.7	4.3	8.4	7.9			
						0.0	173.2	26.9	28.3		28.1		7.8		7.8		58.1		53.5			4.0	
						0.6	346.1	26.9	28.0	28.1	7.8	7.8	49.0	53.5	3.3	3.7	10.0	10.4	13.4	14.1			
E5	Rainy	Calm	15:48	5.5	S	0.6	280.5	28.3	28.3	16.5	16.4	7.8	7.8	78.7	79.0	5.6	5.6	5.6	8.0	7.5	8.7	8.5	10.0
						0.6	280.5	28.4		16.4		7.8		79.4		5.6			7.1			9.6	
						0.7	340.1	28.0	19.0	18.8	7.8	7.8	76.7	75.1	5.4	5.3	9.7	9.9	10.4	10.9			
					B	0.4	330.7	28.0	18.6	28.0	7.8	7.8	73.4	75.1	5.2	5.3	10.2	9.9	11.3	10.9			
						0.2	303.9	28.6	14.2		14.3		7.7		7.7		72.1		72.8			5.2	
						0.5	220.9	28.6	14.4	14.3	7.7	7.7	73.5	72.8	5.3	5.2	8.4	8.4	7.0	7.5			
E6	Rainy	Calm	17:35	5.5	S	0.6	330.5	28.0	27.8	19.9	20.9	7.7	7.7	69.3	64.3	4.9	4.5	4.5	8.2	9.1	8.7	10.5	8.9
						0.4	304.4	27.7		21.8		20.9		7.7		7.7			59.3			64.3	
						0.9	214.0	28.4	17.6	17.8	7.7	7.7	68.9	69.1	4.9	4.9	6.4	6.4	6.8	6.3			
					B	0.9	214.0	28.5	18.0	21.7	7.7	7.7	67.9	64.4	4.7	4.5	8.0	7.8	5.8	8.0			
						0.7	32.5	27.7	21.7		7.7		7.7		69.9		64.4		4.7			4.5	
						0.7	32.5	27.7	21.7	21.7	7.7	7.7	69.9	64.4	4.7	4.5	8.0	7.8	7.9	8.0			
F1	Rainy	Moderate	14:31	19.5	S	0.2	14.3	27.2	27.2	26.7	26.7	8.0	8.0	95.4	96.5	6.5	6.6	4.3	1.3	1.3	6.8	2.4	11.0
						0.2	14.3	27.2		26.8		26.7		8.0		8.0			97.7			96.5	
						0.4	119.1	24.4	34.4	34.4	7.8	7.8	30.7	30.6	2.1	2.1	4.0	3.9	8.3	7.8			
					M	0.2	160.2	24.4	34.4	24.4	7.8	7.8	30.5	30.6	2.1	2.1	3.8	3.9	7.2	7.8			
						0.3	348.5	23.3	34.5		34.5		7.9		7.9		44.4		44.5			3.1	
						0.3	348.5	23.3	34.5	34.5	7.9	7.9	44.6	44.5	3.1	3.1	15.8	15.3	21.0	22.2			
F2	Rainy	Moderate	15:02	19.0	S	0.2	296.1	28.1	28.1	26.7	26.9	8.1	8.1	99.4	100.1	6.7	6.7	5.2	0.9	0.9	5.3	1.8	7.9
						0.2	296.1	28.1		27.1		26.9		8.1		8.1			100.8			100.1	
						0.1	86.0	25.1	34.2	34.2	7.9	7.9	52.4	52.7	3.6	3.6	3.7	3.6	6.9	6.6			
					M	0.3	186.4	25.1	34.2	25.1	7.9	7.9	52.9	52.7	3.6	3.6	3.4	3.6	6.3	6.6			
						0.5	85.2	23.4	34.6		34.5		7.8		7.8		45.5		44.6			3.2	
						0.2	116.3	23.4	34.5	34.5	7.8	7.8	43.7	44.6	3.1	3.1	11.5	11.4	15.2	15.5			

Water Quality Monitoring Data Log Sheet

Date: 2019/08/26

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Rainy	Moderate	16:32	17.1	S	0.4	273.9	28.3	28.3	22.4	22.8	8.0	8.0	92.6	91.8	6.4	6.3	4.7	1.8	1.8	8.2	2.4	2.0	6.6
						0.4	273.9	28.2	23.2	8.0	8.0	91.0	6.2	6.2	1.7	1.8	1.5							
						0.2	178.3	25.2	34.1	34.1	7.9	7.9	45.5	3.1	3.1	3.8	3.7	4.3						
					M	0.2	213.1	25.2	34.1	34.1	7.9	7.9	45.4	3.1	3.1	3.6	3.7	5.3	19.3	12.3	13.1			
						0.2	265.7	24.1	34.5	34.5	7.8	7.8	39.2	2.7	2.7	17.5	2.7	2.7		17.5				
						0.2	291.2	24.1	34.5	34.5	7.8	7.8	38.0	2.6	2.6	21.1	2.7	2.7		21.1				
F4	Rainy	Moderate	18:39	13.2	S	0.5	286.9	27.8	27.8	27.2	27.1	8.1	8.1	113.2	113.3	7.6	7.6	6.8	2.3	2.4	6.0	2.5	3.1	8.0
						0.5	286.9	27.8	27.1	27.1	8.1	8.1	113.4	7.7	7.6	2.4	2.4	3.6						
						0.2	274.2	27.4	28.5	28.5	8.0	8.0	86.2	5.8	5.9	1.8	1.9	2.5						
					M	0.5	279.7	27.4	28.5	28.5	8.0	8.0	89.9	6.1	5.9	1.8	1.9	3.0	13.8	16.9	18.2			
						0.0	161.6	25.5	34.1	34.1	7.9	7.9	40.6	2.7	2.7	13.5	13.8	15.5						
						0.0	161.6	25.5	34.1	34.1	7.9	7.9	38.9	2.6	2.7	14.1	13.8	15.5						
F5	Rainy	Calm	15:15	5.5	S	0.4	60.2	28.4	28.2	18.2	19.0	7.9	7.9	83.1	82.0	5.8	5.8	5.8	2.5	2.7	4.1	2.3	2.8	3.8
						1.2	64.6	28.0	19.8	19.8	7.9	7.9	80.8	5.7	5.7	2.9	2.7	3.3						
						0.6	332.6	27.9	22.7	22.9	7.9	7.9	75.1	5.2	5.0	5.2	5.6	4.7						
					B	0.2	90.3	27.9	23.1	23.1	7.9	7.9	68.5	4.7	5.0	5.9	5.6	4.7	4.4	16.5	16.1			
						0.6	143.0	28.7	14.4	14.3	7.8	7.8	82.3	5.9	6.1	4.7	4.4	3.2						
						0.3	126.7	28.8	14.3	14.3	7.8	7.8	88.2	6.3	6.1	4.2	4.4	3.1						
F6	Rainy	Calm	16:22	13.5	S	0.1	282.3	27.7	27.7	21.7	21.7	7.7	7.7	59.6	59.6	4.2	4.2	5.1	8.9	8.8	8.8	9.6	9.9	9.7
						0.1	282.3	27.7	21.7	21.7	7.7	7.7	59.6	4.2	4.2	8.8	8.8	10.2						
						0.5	332.4	26.9	25.7	25.7	7.7	7.7	59.8	4.1	4.0	12.2	13.0	15.5						
					M	0.7	192.3	26.9	25.7	25.7	7.7	7.7	56.2	3.9	4.0	13.9	13.0	15.5	4.0	16.5	16.1			
						0.6	143.0	28.7	14.4	14.3	7.8	7.8	82.3	5.9	6.1	4.7	4.4	3.2						
						0.3	126.7	28.8	14.3	14.3	7.8	7.8	88.2	6.3	6.1	4.2	4.4	3.1						
IM1	Rainy	Moderate	14:11	9.0	S	0.4	32.6	27.5	27.5	28.5	28.4	8.1	8.1	106.8	109.1	7.2	7.4	5.0	2.0	2.0	6.7	4.4	4.2	12.6
						0.4	32.6	27.6	28.3	28.3	8.1	8.1	111.5	7.5	7.5	2.0	2.0	4.0						
						0.4	66.4	25.7	33.8	33.7	7.8	7.8	38.2	2.6	2.6	1.6	1.4	3.3						
					M	0.4	66.4	25.9	33.6	33.6	7.9	7.9	38.8	2.6	2.6	1.3	1.4	3.5	4.9	31.2	30.2			
						0.3	38.0	25.1	34.1	34.1	7.8	7.8	37.5	2.5	2.5	18.3	16.6	29.1						
						0.1	340.9	25.2	34.1	34.1	7.8	7.8	35.2	2.4	2.5	14.8	16.6	29.1						
IM2	Rainy	Moderate	13:49	11.0	S	0.4	198.4	26.6	26.6	27.1	27.2	7.9	7.9	82.4	82.8	5.7	5.7	4.8	1.7	1.7	4.8	3.5	3.9	7.2
						0.4	198.4	26.6	27.3	27.2	7.9	7.9	83.1	5.7	5.7	1.7	1.7	4.2						
						0.3	168.3	26.3	30.2	30.7	7.9	7.9	61.4	4.2	4.0	2.8	2.9	4.0						
					M	0.4	187.6	26.0	31.3	31.3	7.8	7.9	55.9	3.8	4.0	2.9	2.9	3.8	1.5	12.9	13.8			
						0.2	325.7	24.8	34.2	34.2	7.7	7.7	23.3	1.6	1.5	10.1	10.2	14.6						
						0.4	20.1	24.8	34.1	34.1	7.7	7.7	21.7	1.5	1.5	10.4	10.2	14.6						
IM3	Rainy	Moderate	15:27	14.2	S	0.3	278.6	27.3	27.3	26.6	26.5	8.1	8.1	107.1	107.4	7.3	7.3	5.9	1.5	1.5	5.9	4.3	4.8	8.2
						0.3	278.6	27.3	26.5	26.5	8.1	8.1	107.8	7.4	7.4	1.5	1.5	5.3						
						0.3	70.9	27.0	31.0	30.9	8.0	8.0	66.2	4.4	4.5	1.4	1.3	5.0						
					M	0.2	110.2	27.0	30.9	30.9	8.0	8.0	67.6	4.5	4.5	1.1	1.3	6.0	1.9	14.7	14.4			
						0.1	253.2	24.4	34.4	34.4	7.8	7.8	28.3	1.9	1.9	9.5	9.8	14.7						
						0.3	6.8	24.4	34.4	34.4	7.8	7.8	25.8	1.8	1.9	10.2	9.8	14.1						
IM4	Rainy	Moderate	15:52	15.7	S	0.8	299.1	27.7	27.7	24.7	24.7	8.1	8.1	116.2	116.2	8.0	8.0	7.2	1.1	1.1	7.2	3.2	2.7	7.9
						0.8	299.1	27.7	24.7	24.7	8.1	8.1	116.3	8.0	8.0	1.0	1.1	2.2						
						0.5	284.2	27.3	28.7	28.7	8.1	8.1	94.6	6.4	6.4	1.2	1.2	8.0						
					M	0.5	284.2	27.3	28.6	28.6	8.1	8.1	96.2	6.5	6.4	1.1	1.2	7.0	1.5	13.6	13.6			
						0.1	304.2	24.7	34.3	34.3	7.8	7.8	23.5	1.6	1.5	11.9	12.0	13.6						
						0.3	256.5	24.7	34.3	34.3	7.8	7.8	21.1	1.4	1.5	12.2	12.0	13.6						
IM5	Rainy	Moderate	16:11	15.2	S	0.4	313.0	27.9	27.9	25.1	25.1	8.1	8.1	106.4	106.9	7.3	7.3	5.2	1.6	1.5	5.2	1.1	1.6	14.1
						0.4	313.0	27.9	25.2	25.1	8.1	8.1	107.4	7.3	7.3	1.5	1.5	2.1						
						0.3	215.4	26.1	33.7	33.7	7.9	7.9	48.3	3.2	3.1	2.5	2.5	2.6						
					M	0.2	239.6	26.2	33.6	33.6	7.9	7.9	43.8	2.9	3.1	2.4	2.5	2.5	2.9	49.6	38.2			
						0.1	33.5	24.5	34.4	34.4	7.9	7.9	43.9	3.0	2.9	17.7	17.8	26.7						
						0.3	352.9	24.5	34.4	34.4	7.9	7.9	42.1	2.9	2.9	17.8	17.8	26.7						

Water Quality Monitoring Data Log Sheet

Date: 2019/08/26

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)					
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*		
IM15	Rainy	Calm	15:37	5.5	S	0.2	298.2	28.5	28.5	15.4	15.4	7.9	7.9	90.4	90.0	6.4	6.4	6.4	4.0	4.1	5.0	3.2	3.7	4.4		
						0.2	298.2	28.6	28.5	15.4	15.4	7.9	7.9	89.7	89.7	6.4	6.4	6.4	4.2	4.1						
					B	0.3	358.8	28.2	28.2	18.9	18.6	7.9	7.9	86.7	85.5	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0		5.6	5.1
						0.5	289.7	28.3	28.2	18.4	18.6	7.9	7.9	84.3	85.5	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0		4.5	
IM16A	Rainy	Calm	16:00	6.5	S	0.6	329.8	28.6	28.6	14.9	14.9	7.8	7.8	86.9	87.2	6.2	6.2	6.0	4.8	4.8	6.0	4.0	3.9	9.1		
						0.6	329.8	28.6	28.6	14.9	14.9	7.8	7.8	87.5	87.2	6.2	6.2	6.0	4.8	4.8						
					M	0.3	196.6	28.3	28.3	16.8	16.7	7.8	7.8	79.8	80.3	5.7	5.7	5.7	7.0	6.6	6.6	7.0	5.1		5.1	
						0.9	240.0	28.3	28.3	16.7	16.7	7.8	7.8	80.8	80.3	5.7	5.7	5.7	6.2	6.6	6.6	6.2	5.6			
					B	0.4	122.1	27.8	27.8	20.3	20.4	7.8	7.8	74.9	72.1	5.3	5.1	5.1	20.6	22.2	22.2	20.6	17.0		18.3	
						0.4	235.5	27.7	27.8	20.3	20.4	7.8	7.8	69.3	72.1	4.9	5.1	5.1	23.8	22.2	22.2	23.8	19.6			
IM17	Rainy	Calm	17:00	4.5	S	0.3	312.1	28.3	28.4	16.1	16.1	7.8	7.8	73.5	73.3	5.2	5.2	5.2	7.9	7.3	11.5	4.4	4.9	9.3		
						0.3	312.1	28.4	28.4	16.2	16.1	7.7	7.8	73.1	73.3	5.2	5.2	5.2	6.7	7.3						
					B	0.8	300.0	28.2	28.1	17.3	17.6	7.8	7.8	79.0	78.0	5.6	5.5	5.5	14.9	15.7	15.7	14.9	12.8		13.8	
						0.6	53.1	28.1	28.1	17.9	17.6	7.8	7.8	76.9	78.0	5.4	5.5	5.5	16.4	15.7	15.7	16.4	14.7			
IM18	Rainy	Calm	16:49	16.5	S	0.5	266.5	28.6	28.6	15.0	15.3	7.8	7.7	72.1	73.1	5.1	5.2	4.5	6.5	6.4	14.2	6.0	5.6	15.9		
						0.5	266.5	28.6	28.6	15.6	15.3	7.7	7.7	74.2	73.1	5.3	5.2	4.5	6.2	6.4		6.2			5.1	
					M	0.6	237.4	27.5	27.5	22.3	22.3	7.7	7.7	53.4	54.0	3.7	3.8	3.8	11.1	10.8	10.8	11.1	10.0		10.8	
						0.2	308.6	27.5	27.5	22.3	22.3	7.7	7.7	54.7	54.0	3.8	3.8	3.8	10.6	10.8	10.8	10.6	11.5			
					B	0.3	11.4	25.4	25.4	31.2	31.3	7.8	7.8	46.8	44.4	3.2	3.1	3.1	23.1	25.3	25.3	23.1	29.7		31.3	
						0.6	81.6	25.3	25.4	31.4	31.3	7.8	7.8	42.0	44.4	2.9	3.1	3.1	27.5	25.3	25.3	27.5	32.9			
IM19	Rainy	Calm	17:16	17.0	S	1.0	24.5	28.6	28.6	16.2	16.2	7.8	7.8	78.6	79.1	5.6	5.6	4.6	6.0	6.0	13.5	6.3	5.8	15.0		
						0.5	22.7	28.6	28.6	16.3	16.2	7.8	7.8	79.6	79.1	5.6	5.6	4.6	6.0	6.0						
					M	0.5	286.3	26.8	26.9	26.4	26.2	7.8	7.8	49.1	51.8	3.4	3.6	3.6	7.7	7.2	7.2	7.7	5.2		5.8	
						0.5	45.7	27.0	26.9	26.0	26.2	7.8	7.8	54.5	51.8	3.8	3.6	3.6	6.7	7.2	7.2	6.7	6.3			
					B	0.4	186.8	24.8	24.8	32.4	32.4	7.8	7.8	43.2	40.1	3.0	2.8	2.8	24.5	27.3	27.3	24.5	31.7		33.6	
						0.1	178.0	24.8	24.8	32.4	32.4	7.8	7.8	37.1	40.1	2.6	2.8	2.8	30.0	27.3	27.3	30.0	35.4			
IM20A	Rainy	Calm	18:10	4.0	S	0.8	353.4	28.8	28.8	15.9	15.9	7.8	7.8	84.6	85.1	6.0	6.0	6.0	5.7	5.5	7.0	5.8	6.3	8.3		
						0.8	353.4	28.8	28.8	15.8	15.9	7.8	7.8	85.7	85.1	6.1	6.0	6.0	5.2	5.5						
					B	0.6	23.1	28.9	28.8	19.2	19.3	7.7	7.7	78.7	76.4	5.5	5.3	5.3	8.2	8.5	8.5	8.2	10.3			
						0.9	21.6	28.8	28.8	19.3	19.3	7.7	7.7	74.1	76.4	5.1	5.3	5.3	8.8	8.5	8.5	8.8	10.2			
IM21A	Rainy	Calm	18:02	4.5	S	1.8	67.7	29.0	28.9	16.6	15.5	7.8	7.8	86.0	86.5	6.0	6.1	6.1	7.3	6.5	15.9	5.8	5.4	19.3		
						1.8	67.7	28.8	28.9	14.5	15.5	7.8	7.8	87.1	86.5	6.2	6.1	6.1	5.8	6.5						
					B	0.3	322.6	28.7	28.5	21.1	22.4	7.8	7.7	78.9	74.0	5.4	5.1	5.1	23.6	25.3	25.3	23.6	31.6			
						0.3	322.6	28.4	28.5	23.6	22.4	7.7	7.7	69.2	74.0	4.7	5.1	5.1	27.0	25.3	25.3	27.0	34.9			
IM22A	Rainy	Calm	17:56	4.5	S	0.4	195.9	28.3	28.4	18.9	18.1	7.8	7.8	67.5	73.5	4.7	5.2	5.2	8.7	7.7	8.4	9.8	9.5	10.1		
						0.3	164.9	28.6	28.4	17.2	18.1	7.8	7.8	79.6	73.5	5.6	5.2	5.2	6.6	7.7						
					B	0.4	204.8	27.8	27.6	23.1	23.6	7.8	7.8	61.7	61.0	4.3	4.2	4.2	9.3	9.2	9.2	9.3	11.1			
						0.2	276.5	27.4	27.6	24.1	23.6	7.8	7.8	60.3	61.0	4.2	4.2	4.2	9.0	9.2	9.2	9.0	10.5			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/08/28

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
E1	Fine	Calm	13:19	8.0	S	0.6	199.7	26.6	26.6	28.0	28.0	7.9	7.9	81.3	81.2	5.6	5.6	5.5	2.1	2.3	5.3	10.4
						0.6	199.7	26.6	28.0	28.0	7.9	7.9	81.1	81.2	5.6	5.6	5.5	2.6	2.3	5.3		
						0.7	193.3	26.2	29.4	29.6	7.9	7.9	80.8	79.1	5.5	5.4	5.5	2.6	2.9	5.6		
					0.5	181.2	26.1	29.8	29.6	7.9	7.9	77.4	79.1	5.3	5.4	5.5	3.3	2.9	5.7			
					0.6	198.7	25.9	30.3	30.3	7.9	7.9	67.2	66.7	4.6	4.6	4.6	10.3	10.7	19.2			
					0.4	199.8	25.9	30.3	30.3	7.9	7.9	66.2	66.7	4.5	4.6	4.6	11.1	10.7	21.5			
E2	Fine	Calm	07:58	9.6	S	0.4	70.8	28.8	28.9	23.0	23.0	8.2	8.2	126.4	126.4	8.6	8.6	6.6	1.6	1.6	3.3	9.0
						0.4	70.8	28.9	22.9	23.0	8.2	8.2	126.5	126.4	8.6	8.6	6.6	1.6	1.6	3.8		
						0.2	49.2	26.9	26.9	29.5	29.5	7.9	7.9	67.9	67.6	4.6	4.6	4.6	1.8	1.7	6.3	
					0.2	26.4	26.9	29.5	29.5	7.9	7.9	67.3	67.6	4.6	4.6	4.6	1.6	1.7	5.9			
					0.2	319.8	26.3	31.1	31.1	7.6	7.6	39.0	38.4	2.6	2.6	2.6	11.1	11.1	18.2			
					0.1	102.4	26.3	31.1	31.1	7.7	7.6	37.9	38.4	2.6	2.6	2.6	11.2	11.1	16.5			
E3	Fine	Calm	09:02	17.2	S	0.5	99.2	28.0	28.0	24.7	24.5	8.0	8.0	80.4	80.9	5.5	5.5	4.4	1.6	1.5	6.4	16.1
						0.5	99.2	28.0	24.3	24.5	8.0	8.0	81.4	80.9	5.6	5.5	4.4	1.5	1.5	6.5		
						0.3	146.7	26.2	32.0	32.0	7.9	7.9	47.5	46.9	3.2	3.2	3.2	6.8	7.0	12.4		
					0.2	327.4	26.1	32.0	32.0	7.9	7.9	46.4	46.9	3.1	3.2	3.2	7.1	7.0	12.0			
					0.4	98.1	25.5	33.8	33.8	7.9	7.9	44.9	44.4	3.0	3.0	3.0	25.3	23.0	28.8			
					0.4	98.1	25.5	33.8	33.8	7.9	7.9	43.9	44.4	3.0	3.0	3.0	20.8	23.0	30.5			
E4	Cloudy	Calm	11:41	11.0	S	1.6	195.1	29.3	29.3	17.7	17.8	7.9	7.9	73.4	74.8	5.1	5.2	4.2	3.7	3.3	8.0	21.2
						2.1	212.8	29.3	17.9	17.8	7.9	7.9	76.2	74.8	5.3	5.2	4.2	2.9	3.3	8.0		
						0.9	196.5	27.1	27.7	27.8	7.9	7.9	47.2	47.7	3.2	3.2	3.2	15.5	15.3	22.5		
					1.1	230.6	27.1	27.9	27.8	7.9	7.9	48.1	47.7	3.3	3.2	3.2	15.0	15.3	21.7			
					0.4	276.0	26.0	32.1	32.2	7.9	7.9	44.7	42.0	3.0	2.8	2.8	62.5	65.7	32.4			
					0.9	248.6	26.0	32.2	32.2	7.9	7.9	39.2	42.0	2.7	2.8	2.8	68.9	65.7	34.8			
E5	Cloudy	Calm	10:40	6.5	S	0.8	190.3	29.3	29.3	17.8	17.9	7.9	7.9	75.3	76.6	5.2	5.3	4.9	3.1	3.0	5.2	7.8
						0.8	190.3	29.3	17.9	17.9	7.9	7.9	77.9	76.6	5.4	5.3	4.9	2.9	3.0	6.0		
						0.2	128.3	28.2	23.0	23.0	7.9	7.9	62.7	64.1	4.3	4.4	4.4	3.1	3.0	6.7		
					0.2	128.3	28.2	23.1	23.0	7.9	7.9	65.4	64.1	4.5	4.4	4.4	2.8	3.0	6.0			
					0.2	125.5	27.1	28.1	28.1	7.8	7.8	47.9	45.6	3.3	3.1	3.1	6.9	7.3	11.8			
					0.3	301.7	27.1	28.1	28.1	7.8	7.8	43.2	45.6	2.9	3.1	3.1	7.7	7.3	11.1			
E6	Cloudy	Calm	08:50	6.5	S	0.6	96.8	28.8	28.7	18.2	18.5	7.7	7.7	65.3	65.4	4.6	4.6	4.4	3.8	3.8	6.3	6.8
						0.6	96.8	28.7	18.9	18.5	7.7	7.7	65.4	65.4	4.6	4.6	4.4	3.9	3.8	6.4		
						0.3	2.2	28.3	21.5	21.5	7.8	7.8	60.3	61.2	4.2	4.2	4.2	5.1	5.1	6.5		
					0.7	84.6	28.3	21.5	21.5	7.8	7.8	62.0	61.2	4.3	4.2	4.2	5.2	5.1	6.9			
					0.3	192.9	27.3	25.7	25.7	7.8	7.8	59.0	56.4	4.1	3.9	3.9	4.2	4.2	7.4			
					0.6	43.8	27.3	25.7	25.7	7.8	7.8	53.9	56.4	3.7	3.9	3.9	4.3	4.2	7.3			
E7A	Cloudy	Calm	07:58	5.5	S	0.5	150.2	28.6	28.6	18.7	18.7	7.6	7.6	65.6	66.3	4.6	4.6	4.6	3.1	3.2	3.7	3.6
						0.5	150.8	28.6	18.7	18.7	7.6	7.6	67.0	66.3	4.7	4.6	4.6	3.3	3.2	3.3		
						0.5	197.5	27.6	24.1	24.5	7.4	7.5	65.3	63.7	4.5	4.4	4.4	3.0	2.9	3.8		
F1	Fine	Calm	12:22	19.6	S	0.4	134.3	29.1	29.1	25.3	25.3	8.4	8.4	167.1	168.1	11.2	11.2	7.5	1.4	1.4	3.1	5.4
						0.4	134.3	29.1	25.3	25.3	8.4	8.4	169.0	168.1	11.3	11.2	7.5	1.4	1.4	3.1		
						0.2	138.8	26.5	31.8	31.8	8.0	8.0	57.1	57.1	3.8	3.8	3.8	0.7	0.7	2.3		
					0.2	113.0	26.6	31.7	31.8	8.0	8.0	57.1	57.1	3.8	3.8	3.8	0.7	0.7	2.2			
					0.4	117.8	24.1	34.4	34.4	7.8	7.8	30.8	29.4	2.1	2.0	2.0	5.9	6.0	11.4			
					0.3	98.7	24.1	34.4	34.4	7.8	7.8	28.1	29.4	1.9	2.0	2.0	6.1	6.0	10.4			
F2	Fine	Calm	11:51	18.7	S	0.1	124.5	29.0	29.0	23.6	23.5	8.2	8.2	127.7	131.6	8.6	8.9	6.1	1.2	1.1	2.6	4.2
						0.1	124.5	29.1	23.4	23.4	8.2	8.2	135.6	131.6	9.2	8.9	6.1	1.1	1.1	3.1		
						0.2	89.3	26.4	32.6	32.6	7.9	7.9	51.1	50.8	3.4	3.4	3.4	1.4	1.3	2.4		
					0.2	350.4	26.4	32.5	32.6	7.9	7.9	50.5	50.8	3.4	3.4	3.4	1.3	1.3	2.4			
					0.1	39.5	24.1	34.5	34.5	7.8	7.8	39.0	38.2	2.7	2.6	2.6	6.0	6.0	7.7			
					0.1	39.5	24.1	34.5	34.5	7.8	7.8	37.5	38.2	2.6	2.6	2.6	6.0	6.0	6.8			

Water Quality Monitoring Data Log Sheet

Date: 2019/08/28

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
IM6	Fine	Calm	10:14	16.3	S	0.4	94.2	28.9	28.9	24.0	23.9	8.2	8.2	123.6	122.8	8.3	8.3	5.9	1.2	1.2		3.6		8.8
						0.4	94.2	28.9		23.8		8.2		121.9		8.2		5.9	1.2			4.2	3.9	
						0.5	110.5	26.1	26.0	33.3	33.4	7.9	7.9	52.8	53.1	3.6	3.6		2.2	2.1		5.4	5.1	
					0.5	110.5	26.0		33.4		7.9		53.4		3.6		2.5	1.9			4.8			
					0.5	10.1	24.6	24.6	34.4	34.4	7.8	7.8	38.3	37.0	2.6	2.5	2.5	11.5	12.0		17.6	17.5		
					0.4	29.9	24.6		34.4		7.8		35.8		2.5			12.4			17.3			
IM7	Fine	Calm	09:47	12.9	S	0.4	104.4	28.6	28.6	23.5	23.5	8.1	8.1	106.9	107.5	7.3	7.3	5.6	1.0	1.0		3.0		5.2
						0.4	104.4	28.6		23.5		8.1		108.1		7.4		5.6	1.0			2.5	2.8	
						0.2	112.1	26.7	26.7	31.4	31.4	7.9	7.9	57.7	57.3	3.9	3.9		1.8	1.7		4.9	4.9	
					0.3	73.3	26.7		31.4		7.9		57.0		3.8		3.1	1.6			4.9			
					0.1	48.5	25.2	25.2	34.1	34.1	7.9	7.9	47.3	46.3	3.2	3.1	3.1	6.6	6.6		8.1	8.1		
					0.1	120.4	25.2		34.1		7.9		45.2		3.1			6.6			8.0			
IM8	Fine	Calm	09:58	14.7	S	0.2	105.7	28.6	28.5	23.1	23.6	8.2	8.1	118.3	114.4	8.1	7.8	5.5	1.4	1.3		2.5		7.6
						0.2	105.7	28.4		24.1		8.1		110.5		7.5		5.5	1.3			2.5	2.5	
						0.1	37.3	26.3	26.3	32.3	32.3	7.9	7.9	46.7	47.0	3.1	3.2		3.3	3.2		7.6	7.2	
					0.1	37.3	26.3		32.3		7.9		47.2		3.2		2.7	3.0			6.7			
					0.4	117.2	25.1	25.1	34.0	34.1	7.9	7.9	40.9	39.8	2.8	2.7	2.7	9.4	9.4		12.5	13.2		
					0.4	117.2	25.1		34.1		7.9		38.7		2.6			9.5			13.9			
IM9	Fine	Calm	09:27	15.4	S	0.2	151.6	28.1	28.1	24.3	24.6	8.1	8.1	94.6	95.0	6.5	6.5	5.4	1.5	1.4		3.1		7.6
						0.2	151.6	28.1		24.9		8.1		95.4		6.5		5.4	1.3			3.2	3.2	
						0.2	136.2	27.1	27.1	30.3	30.3	8.0	8.0	63.5	63.8	4.3	4.3		1.5	1.5		5.3	5.2	
					0.1	181.6	27.1		30.3		8.0		64.0		4.3		3.6	1.5			5.0			
					0.4	117.2	25.8	25.8	33.6	33.5	7.9	7.9	54.9	54.1	3.7	3.6	3.6	3.4	3.3		14.4	14.6		
					0.3	14.5	25.9		33.5		7.9		53.3		3.6			3.2			14.7			
IM10	Cloudy	Calm	12:54	11.0	S	0.6	189.1	25.9	26.4	32.8	32.0	7.9	7.9	39.5	40.3	2.7	2.7	2.6	15.5	13.9		22.5		34.2
						0.6	189.1	26.8		31.2		7.9		41.1		2.8		2.6	12.3			21.2	21.9	
						0.3	345.2	25.5	25.5	33.9	33.9	7.9	7.9	37.7	37.6	2.6	2.5		72.6	68.7		35.5	36.1	
					0.6	311.3	25.5		33.9		7.9		37.5		2.5		2.8	64.9			36.6			
					0.5	52.3	25.4	25.4	33.9	33.9	7.9	7.9	43.7	41.7	3.0	2.8	2.8	59.6	62.0		44.0	44.6		
					0.6	31.2	25.4		33.9		7.9		39.6		2.7			64.5			45.2			
IM11A	Cloudy	Calm	12:43	4.0	S	0.8	185.8	28.2	28.3	23.6	23.6	7.9	7.9	67.5	67.6	4.6	4.6	4.6	39.8	37.3		26.0		26.5
						0.8	185.8	28.3		23.6		7.9		67.6		4.6		4.6	34.9			27.2	25.4	
						0.6	161.8	28.2	28.2	23.7	23.7	7.9	7.9	70.3	69.1	4.8	4.7	4.7	46.1	49.9		27.2	27.7	
					0.7	156.9	28.2		23.8		7.9		67.9		4.6			53.7			28.1			
					1.6	133.9	28.6	28.7	20.8	20.8	7.9	7.9	72.7	73.5	5.0	5.1		3.5	3.2		3.7	3.3		
					1.6	133.9	28.7		20.7		7.9		74.4		5.1		4.6	2.9			2.9			
IM12	Cloudy	Calm	12:21	12.5	M	1.9	148.1	27.3	27.1	27.4	28.0	7.9	7.9	61.5	60.6	4.2	4.1	4.6	7.5	6.7		19.1		20.2
						0.9	124.4	27.0		28.7		7.9		59.7		4.1			5.8			20.0	19.6	
						1.0	174.4	26.3	26.3	31.1	31.1	7.9	7.9	44.6	44.1	3.0	3.0	3.0	89.5	88.5		36.1	37.7	
					0.7	156.2	26.3		31.1		7.9		43.7		3.0			87.6			39.2			
					2.4	185.4	28.8	28.9	18.7	18.4	7.9	7.9	70.7	71.6	4.9	5.0		3.6	3.5		3.8	3.5		
					2.4	185.4	29.0		18.1		7.9		72.5		5.0		4.2	3.4			3.2			
IM13	Cloudy	Calm	12:05	16.5	M	1.0	163.4	27.1	26.9	28.5	28.9	7.9	7.9	53.2	51.1	3.6	3.5	4.2	23.1	23.6		13.5		14.7
						0.4	278.9	26.7		29.2		7.9		49.1		3.3			24.1			15.2	14.4	
						1.1	213.3	26.3	26.3	31.1	30.9	7.9	7.9	40.3	41.5	2.7	2.8	2.8	25.4	22.4		24.7	26.3	
					1.0	254.9	26.4		30.7		7.9		42.8		2.9			19.3			27.8			
					1.6	219.3	29.1	29.0	19.0	19.1	7.9	7.9	73.7	74.5	5.1	5.2		5.6	5.4		7.5	7.4		
					1.6	219.3	29.0		19.3		7.9		75.3		5.2		4.7	5.2			7.2			
IM14	Cloudy	Calm	11:49	10.0	M	1.3	209.5	28.2	27.9	23.3	24.6	7.9	7.9	63.1	61.0	4.3	4.2	4.7	10.4	10.1		11.6		17.8
						1.7	209.9	27.6		25.9		7.9		58.9		4.0			9.8			10.2	10.9	
						1.3	170.0	26.1	26.1	31.7	31.7	7.9	7.9	40.8	39.7	2.8	2.7	2.7	70.6	72.2		35.4	35.3	
					0.7	131.4	26.1		31.7		7.9		38.6		2.6			73.8			35.1			

Water Quality Monitoring Data Log Sheet

Date: 2019/08/28

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM15	Cloudy	Calm	10:51	6.0	S	0.8	184.0	29.0	29.0	18.8	18.7	7.8	7.8	71.8	72.4	5.0	5.0	4.6	3.1	3.1	4.9	2.6	4.8	
						0.8	184.0	29.1	29.0	18.6	18.7	7.8	7.8	73.0	72.4	5.1	5.0	4.6	3.1	3.1		2.9		
					M	1.0	215.1	28.2	28.3	22.6	22.1	7.9	7.8	57.2	59.9	3.9	4.1	4.6	4.0	3.7		3.9		3.6
						0.8	255.8	28.4	28.3	21.6	22.1	7.8	7.8	62.6	59.9	4.3	4.1	4.6	3.4	3.7		3.3		3.6
					B	0.8	178.6	27.1	27.1	28.3	28.3	7.8	7.8	52.2	49.2	3.5	3.3	3.3	8.0	7.9		8.0		7.8
						0.3	172.2	27.1	27.1	28.3	28.3	7.8	7.8	46.2	49.2	3.1	3.3	3.3	7.8	7.9		7.5		7.8
IM16A	Cloudy	Calm	10:26	7.5	S	0.3	185.7	29.1	29.1	18.2	18.2	7.8	7.8	76.3	76.6	5.3	5.3	4.7	3.0	3.0	5.4	3.0	6.3	
						0.3	185.7	29.1	29.1	18.2	18.2	7.8	7.8	76.8	76.6	5.3	5.3	4.7	3.1	3.0		2.9		
					M	1.3	223.3	28.2	28.2	23.1	22.9	7.8	7.8	59.9	60.8	4.1	4.2	4.7	3.8	3.5		3.8		4.3
						0.4	109.5	28.2	28.2	22.7	22.9	7.8	7.8	61.8	60.8	4.3	4.2	4.7	3.3	3.5		4.5		4.3
					B	0.4	179.9	27.4	27.4	26.7	26.7	7.8	7.8	52.2	48.7	3.6	3.3	3.3	9.2	9.7		11.8		11.6
						0.3	158.3	27.4	27.4	26.7	26.7	7.8	7.8	45.1	48.7	3.1	3.3	3.3	10.2	9.7		11.3		11.6
IM17	Cloudy	Calm	09:28	5.5	S	0.6	198.2	28.5	28.5	20.5	20.4	7.8	7.8	64.2	64.7	4.5	4.5	4.5	4.1	3.9	5.4	3.9	5.1	
						0.3	123.9	28.5	28.5	20.4	20.4	7.8	7.8	65.2	64.7	4.5	4.5	4.5	3.7	3.9		3.0		
					B	0.5	158.3	27.9	27.9	23.7	23.7	7.8	7.8	56.0	54.4	3.9	3.7	3.7	6.7	6.8		6.9		6.8
						0.9	134.0	27.9	27.9	23.7	23.7	7.8	7.8	52.7	54.4	3.6	3.7	3.7	7.0	6.8		6.6		6.8
IM18	Cloudy	Calm	09:39	17.5	S	0.5	93.5	28.8	28.8	19.0	18.8	7.8	7.8	70.3	72.9	4.9	5.1	4.4	3.5	3.4	5.1	3.5	6.1	
						0.5	93.5	28.9	28.8	18.7	18.8	7.8	7.8	75.4	72.9	5.2	5.1	4.4	3.3	3.4		2.9		
					M	0.5	275.2	27.2	27.2	25.9	26.0	7.8	7.8	53.1	53.2	3.7	3.7	3.7	4.6	4.7		5.6		5.6
						0.7	141.2	27.1	27.2	26.1	26.0	7.8	7.8	53.2	53.2	3.7	3.7	3.7	4.9	4.7		5.5		5.6
					B	0.8	83.6	26.0	26.0	29.4	29.4	7.8	7.8	48.9	48.3	3.4	3.3	3.3	7.2	7.1		9.6		9.4
						0.3	114.2	26.0	26.0	29.3	29.4	7.8	7.8	47.6	48.3	3.3	3.3	3.3	6.9	7.1		9.2		9.4
IM19	Cloudy	Calm	09:08	18.5	S	0.9	206.3	28.4	28.4	21.3	21.4	7.8	7.8	68.3	68.4	4.7	4.7	4.2	3.3	3.3	15.4	8.0	18.9	
						1.0	227.7	28.4	28.4	21.4	21.4	7.8	7.8	68.5	68.4	4.7	4.7	4.2	3.3	3.3		8.7		
					M	1.1	213.5	27.2	27.3	26.5	26.1	7.8	7.8	51.3	52.6	3.5	3.6	3.6	16.4	15.0		22.5		22.4
						0.6	177.8	27.4	27.3	25.7	26.1	7.8	7.8	54.0	52.6	3.7	3.6	3.6	13.5	15.0		22.3		22.4
					B	0.5	96.2	25.6	25.7	30.4	30.3	7.8	7.8	41.8	42.1	2.9	2.9	2.9	30.4	28.1		25.4		25.8
						0.4	203.9	25.7	25.7	30.2	30.3	7.8	7.8	42.4	42.1	2.9	2.9	2.9	25.8	28.1		26.2		25.8
IM20A	Cloudy	Calm	08:11	5.0	S	0.2	259.9	28.7	28.7	20.1	19.9	7.7	7.7	66.9	68.3	4.6	4.7	4.7	3.0	2.8	5.6	4.5	7.8	
						0.2	259.9	28.8	28.7	19.7	19.9	7.7	7.7	69.7	68.3	4.8	4.7	4.7	2.6	2.8		4.8		
					B	0.3	325.0	27.1	27.1	26.6	26.6	7.7	7.7	56.4	54.5	3.9	3.7	3.7	8.9	8.3		11.6		11.0
						0.3	325.0	27.1	27.1	26.6	26.6	7.7	7.7	52.5	54.5	3.6	3.7	3.7	7.7	8.3		10.4		11.0
IM21A	Cloudy	Calm	08:19	5.5	S	0.7	297.5	27.7	27.9	24.6	24.0	7.7	7.7	57.2	57.7	3.9	4.0	4.0	9.0	9.0	12.0	8.0	16.0	
						1.3	221.6	28.1	27.9	23.5	24.0	7.7	7.7	58.2	57.7	4.0	4.0	4.0	9.1	9.0		9.3		
					B	0.3	300.8	26.8	26.8	27.3	27.4	7.7	7.7	53.0	51.2	3.6	3.5	3.5	14.3	14.9		24.0		23.4
						0.4	202.2	26.8	26.8	27.4	27.4	7.7	7.7	49.4	51.2	3.4	3.5	3.5	15.6	14.9		22.8		23.4
IM22A	Cloudy	Calm	08:26	5.5	S	0.7	228.4	28.5	28.5	25.5	25.5	7.8	7.8	63.0	62.9	4.2	4.2	4.2	11.6	11.6	13.2	16.2	19.0	
						0.7	228.4	28.4	28.5	25.5	25.5	7.8	7.8	62.8	62.9	4.2	4.2	4.2	11.6	11.6		15.6		
					B	0.4	203.6	28.2	28.2	26.3	26.2	7.8	7.8	64.1	62.8	4.3	4.2	4.2	15.4	14.7		23.0		22.1
						0.4	265.9	28.2	28.2	26.2	26.2	7.8	7.8	61.4	62.8	4.1	4.2	4.2	14.1	14.7		21.1		22.1

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/08/28

Tide: Mid-Flood

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)		Suspended Solids (mg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
E1	Fine	Calm	15:15	8.0	S	0.6	226.0	26.6	26.5	27.3	27.4	7.9	7.9	69.9	69.4	4.8	4.8	4.6	6.1	6.3	6.0	5.6					
						0.6	226.0	26.5	26.5	27.5	27.4	7.9	7.9	68.8	69.4	4.7	4.8	4.6	6.4	6.3	5.1	5.6					
					M	0.7	192.2	26.1	26.1	28.6	28.8	7.8	7.8	63.2	62.8	4.4	4.3	4.6	7.1	7.2	9.8	9.7					
						0.6	226.0	26.0	26.0	29.0	29.7	7.8	7.7	62.4	61.6	4.3	4.2	4.2	7.2	11.2	9.5	10.7					
					B	0.4	190.0	25.9	25.9	29.7	29.7	7.7	7.7	62.0	61.6	4.3	4.2	4.2	10.7	11.2	10.7	10.7					
						0.5	221.2	25.9	25.9	29.7	29.7	7.7	7.7	61.2	61.6	4.2	4.2	4.2	11.7	11.2	10.6	10.7					
E2	Fine	Calm	20:33	8.8	S	0.4	68.9	29.0	29.0	25.3	25.2	8.5	8.5	169.3	175.8	11.3	11.8	9.2	1.8	1.7	2.1	2.6					
						0.3	47.9	29.1	29.0	25.0	25.2	8.5	8.5	182.3	175.8	12.2	11.8	9.2	1.6	1.7	3.0	2.6					
					M	0.3	25.5	27.3	27.3	28.6	28.6	8.1	8.1	96.3	96.8	6.5	6.5	4.3	2.4	2.4	2.4	2.9					
						0.3	25.5	27.3	27.3	28.5	28.6	8.1	8.1	97.2	96.8	6.6	6.5	4.3	2.5	2.4	3.4	2.9					
					B	0.5	331.2	26.8	26.8	30.0	30.0	7.9	7.9	63.3	63.5	4.3	4.3	4.3	4.9	4.9	4.7	5.3					
						0.5	331.2	26.8	26.8	30.0	30.0	7.9	7.9	63.6	63.5	4.3	4.3	4.3	5.0	4.9	5.8	5.3					
E3	Fine	Calm	19:27	16.5	S	0.4	320.7	28.8	28.9	20.3	19.7	7.9	7.9	71.4	70.9	4.9	4.9	4.7	3.5	3.4	2.4	2.8					
						0.4	320.7	28.9	28.9	19.0	19.7	7.9	7.9	70.5	70.9	4.9	4.9	4.7	3.3	3.4	3.1	2.8					
					M	1.0	302.4	26.9	27.0	29.7	29.6	8.0	8.0	65.5	66.3	4.4	4.5	4.5	6.8	6.7	7.9	7.4					
						1.0	302.4	27.0	27.0	29.5	29.6	8.0	8.0	67.1	66.3	4.5	4.5	4.5	6.6	6.7	6.9	7.4					
					B	0.3	311.2	26.0	26.0	32.2	32.2	7.9	7.9	44.9	44.5	3.0	3.0	3.0	29.1	29.3	36.0	35.8					
						0.9	328.4	26.0	26.0	32.2	32.2	7.9	7.9	44.1	44.5	3.0	3.0	3.0	29.6	29.3	35.5	35.8					
E4	Cloudy	Calm	16:27	10.5	S	0.5	60.5	29.1	29.1	20.1	20.1	7.8	7.8	68.4	68.6	4.7	4.7	4.4	7.0	6.6	5.8	5.4					
						0.5	27.3	29.1	29.1	20.1	20.1	7.8	7.8	68.9	68.6	4.7	4.7	4.4	6.3	6.6	4.9	5.4					
					M	0.9	26.8	28.1	28.1	24.1	24.2	7.8	7.8	59.5	59.6	4.1	4.1	4.1	8.8	9.3	8.8	9.3					
						0.9	26.8	28.0	28.1	24.3	24.2	7.8	7.8	59.8	59.6	4.1	4.1	4.1	8.6	9.4	9.8	9.3					
					B	0.2	250.7	27.0	27.0	28.2	28.2	7.8	7.8	48.2	47.9	3.3	3.3	3.3	93.0	91.3	182.0^	-					
						0.1	279.1	27.0	27.0	28.2	28.2	7.8	7.8	47.6	47.9	3.2	3.3	3.3	89.6	91.3	168.0^	-					
E5	Cloudy	Calm	17:29	5.5	S	0.7	346.1	29.3	29.2	16.8	16.9	7.7	7.7	69.1	69.1	4.8	4.8	4.8	9.2	8.9	7.6	7.1					
						0.7	346.1	29.2	29.2	17.0	16.9	7.7	7.7	69.1	69.1	4.8	4.8	4.8	8.7	8.9	6.6	7.1					
					B	0.7	359.2	28.6	28.6	19.7	19.8	7.7	7.7	64.8	64.2	4.5	4.5	4.5	29.1	26.4	37.4	40.4					
						0.6	339.6	28.6	28.6	19.9	19.8	7.7	7.7	63.5	64.2	4.4	4.5	4.5	23.8	26.4	43.3	40.4					
					E6	Cloudy	Calm	19:23	5.5	S	1.5	1.1	27.5	27.7	24.2	23.2	7.7	7.7	45.4	46.2	3.1	3.2	3.2	14.7	13.4	24.8	23.2
											1.6	291.2	27.9	27.7	22.3	23.2	7.7	7.7	46.9	46.2	3.3	3.2	3.2	12.0	13.4	21.5	23.2
B	0.7	316.6	26.9	26.9						26.9	27.0	7.7	7.7	46.9	45.6	3.2	3.1	3.1	22.8	23.8	28.4	26.9					
	0.3	15.7	26.9	26.9						27.0	27.0	7.7	7.7	44.2	45.6	3.0	3.1	3.1	24.7	23.8	25.3	26.9					
S	0.7	36.7	29.4	29.4						17.8	18.0	7.8	7.8	72.9	74.3	5.0	5.1	5.1	6.7	6.1	3.8	3.6					
	0.7	36.7	29.4	29.4						18.1	18.0	7.8	7.8	75.8	74.3	5.2	5.1	5.1	5.6	6.1	3.3	3.6					
B	0.2	195.7	27.8	27.7	24.2	24.5	7.8	7.8	65.2	62.1	4.5	4.3	4.3	8.3	9.1	10.5	11.0										
	0.2	195.7	27.6	27.7	24.9	24.5	7.8	7.8	58.9	62.1	4.0	4.3	4.3	9.8	9.1	11.4	11.0										
F1	Fine	Calm	16:08	19.4	S	0.6	42.5	28.0	27.9	27.4	27.6	8.4	8.4	178.1	168.6	12.0	11.3	6.7	2.1	2.2	4.0	3.5					
						0.6	42.5	27.8	27.9	27.7	27.6	8.3	8.4	159.1	168.6	10.7	11.3	6.7	2.2	2.2	3.0	3.5					
					M	0.3	333.2	24.7	24.7	33.8	33.8	7.8	7.8	31.0	30.6	2.1	2.1	2.1	3.2	2.9	2.2	2.7					
						0.3	8.7	24.7	24.7	33.9	33.8	7.9	7.8	30.2	30.6	2.1	2.1	2.1	2.7	2.9	3.2	2.7					
					B	0.1	349.6	23.6	23.6	34.5	34.5	7.8	7.8	33.3	32.5	2.3	2.3	2.3	8.7	8.7	13.5	12.9					
						0.4	342.7	23.6	23.6	34.5	34.5	7.8	7.8	31.7	32.5	2.2	2.3	2.3	8.7	8.7	12.2	12.9					
F2	Fine	Calm	16:38	18.6	S	0.6	209.8	29.5	29.5	25.5	25.5	8.6	8.6	207.8	209.5	13.8	13.9	7.9	2.0	2.0	2.8	3.1					
						0.6	209.8	29.5	29.5	25.5	25.5	8.6	8.6	211.1	209.5	14.0	13.9	7.9	2.0	2.0	3.4	3.1					
					M	0.2	284.9	25.1	25.2	34.0	33.9	7.8	7.8	29.7	29.4	2.0	2.0	2.0	3.8	3.7	3.1	3.6					
						0.3	164.5	25.3	25.2	33.8	33.9	7.8	7.8	29.1	29.4	2.0	2.0	2.0	3.5	3.7	4.1	3.6					
					B	0.3	274.4	23.8	23.8	34.5	34.5	7.8	7.8	41.7	41.1	2.9	2.8	2.8	9.7	10.0	10.0	9.6					
						0.3	77.2	23.8	23.8	34.5	34.5	7.9	7.8	40.4	41.1	2.8	2.8	2.8	10.2	10.0	9.1	9.6					

Water Quality Monitoring Data Log Sheet

Date: 2019/08/28

Tide: Mid-Flood

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)		Suspended Solids (mg/L)				
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
IM15	Cloudy	Calm	17:19	5.5	S	0.9	45.9	29.3	29.3	18.9	19.2	7.8	7.8	75.5	75.2	5.2	5.2	5.2	5.6	5.5	8.4	6.2	6.7	10.2		
						0.9	45.9	29.2	19.6	19.2	7.8	7.8	75.0	75.2	5.2	5.2	5.2	5.6	5.5							
					B	0.9	324.6	28.3	28.3	23.9	23.8	7.8	7.8	63.7	63.3	4.4	4.3	4.3	12.6	11.3	10.0	14.3	13.8			
						0.2	337.0	28.3	28.3	23.8	23.8	7.8	7.8	63.0	63.3	4.3	4.3	4.3	10.0	10.0	13.2	13.2				
IM16A	Cloudy	Calm	17:42	6.5	S	0.1	359.2	29.0	29.0	18.3	18.3	7.7	7.7	56.8	56.9	4.0	4.0	3.9	8.7	8.7	3.9	8.7	10.0	13.0		
						0.4	12.4	29.1	29.0	18.3	18.3	7.7	7.7	57.0	56.9	4.0	4.0	3.9	8.8	8.7		10.0				
					M	0.1	326.6	28.5	28.5	20.0	20.1	7.7	7.7	55.7	55.9	3.9	3.9	3.7	10.6	10.5	10.4	10.3	12.2		10.3	
						0.1	326.6	28.5	28.5	20.2	20.1	7.7	7.7	56.1	55.9	3.9	3.9	3.7	10.4	10.5	10.2	10.3				
					B	0.4	316.7	28.2	28.2	21.3	21.4	7.7	7.7	54.9	53.7	3.8	3.7	3.7	17.1	17.4	17.7	17.7	3.7		17.4	18.8
						0.4	336.2	28.1	28.2	21.4	21.4	7.7	7.7	52.5	53.7	3.6	3.7	3.7	17.7	17.4	17.7	17.7				
IM17	Cloudy	Calm	18:45	4.5	S	0.8	324.6	29.4	29.4	16.7	16.7	7.7	7.7	58.5	58.6	4.1	4.1	4.1	7.8	7.2	14.7	7.8	12.0	19.5		
						0.8	324.6	29.4	29.4	16.7	16.7	7.7	7.7	58.8	58.6	4.1	4.1	4.1	6.6	7.2		11.3				
					B	0.8	15.7	28.5	28.5	20.3	20.2	7.7	7.7	53.7	53.4	3.7	3.7	3.7	22.4	22.3	22.3	22.3	3.7		22.3	27.0
						0.2	317.6	28.5	28.5	20.2	20.2	7.7	7.7	53.0	53.4	3.7	3.7	3.7	22.3	22.3	22.3	22.3				
IM18	Cloudy	Calm	18:32	17.0	S	0.2	19.2	29.6	29.7	15.3	14.9	7.7	7.7	55.7	57.3	3.9	4.0	3.8	6.9	6.6	3.8	6.9	6.9	20.6		
						0.2	19.2	29.8	29.7	14.5	14.9	7.7	7.7	58.8	57.3	4.1	4.0	3.8	6.3	6.6		6.4				
					M	0.6	305.9	27.3	27.3	25.3	25.3	7.8	7.8	50.8	50.9	3.5	3.5	3.5	8.7	7.9	7.1	8.6	19.5		8.6	9.1
						0.6	48.8	27.3	27.3	25.2	25.3	7.8	7.8	51.1	50.9	3.5	3.5	3.5	7.1	7.9	9.5	9.5				
					B	0.8	61.9	26.6	26.6	27.7	27.7	7.8	7.8	45.9	45.4	3.2	3.1	3.1	41.4	44.1	42.8	49.2	3.1		41.4	46.0
						1.4	309.2	26.6	26.6	27.7	27.7	7.8	7.8	44.9	45.4	3.1	3.1	3.1	46.7	44.1	42.8	42.8				
IM19	Cloudy	Calm	19:04	17.5	S	0.8	345.0	29.6	29.6	16.9	16.8	7.8	7.8	73.4	74.2	5.1	5.2	4.4	6.3	6.4	4.4	6.3	18.6	21.3		
						0.8	345.0	29.6	29.6	16.7	16.8	7.8	7.8	75.0	74.2	5.2	5.2	5.2	6.5	6.4		17.6				
					M	1.1	333.0	27.7	27.7	23.9	23.9	7.8	7.7	53.6	53.5	3.7	3.7	3.7	7.1	6.5	16.5	16.5	16.7		16.5	16.7
						1.6	0.4	27.7	27.7	23.9	23.9	7.7	7.7	53.3	53.5	3.7	3.7	3.7	6.0	6.5	16.8	16.8				
					B	0.4	40.1	25.7	25.7	30.1	30.1	7.8	7.8	48.2	45.7	3.3	3.1	3.1	34.8	37.2	28.5	28.5	3.1		34.8	28.8
						0.3	351.3	25.7	25.7	30.2	30.1	7.8	7.8	43.3	45.7	3.0	3.1	3.1	39.6	37.2	29.0	29.0				
IM20A	Cloudy	Calm	20:01	4.5	S	0.7	344.6	29.7	29.7	17.9	17.7	7.8	7.8	71.1	73.0	4.9	5.0	5.0	8.5	8.1	9.5	8.5	17.9	18.1		
						0.6	111.9	29.7	29.7	17.6	17.7	7.8	7.8	74.9	73.0	5.2	5.0	5.0	7.6	8.1		18.0				
					B	0.5	183.4	27.7	27.7	25.2	25.2	7.8	7.8	63.7	61.3	4.4	4.2	4.2	10.6	10.9	18.2	18.2	4.2		10.6	18.4
						0.2	88.0	27.7	27.7	25.2	25.2	7.8	7.8	58.9	61.3	4.0	4.2	4.2	11.3	10.9	18.5	18.5				
IM21A	Cloudy	Calm	19:52	4.5	S	0.5	302.2	29.3	29.4	19.4	19.9	7.7	7.8	64.7	66.8	4.5	4.6	4.6	13.7	14.2	13.9	13.7	17.0	19.6		
						0.5	302.2	29.6	29.4	20.3	19.9	7.7	7.7	68.9	66.8	4.7	4.6	4.6	14.7	14.2		15.8				
					B	0.5	263.8	27.6	27.5	25.2	25.4	7.7	7.7	60.9	57.6	4.2	3.9	3.9	13.5	13.6	23.7	23.7	3.9		13.5	22.3
						0.4	198.9	27.4	27.5	25.5	25.4	7.7	7.7	54.3	57.6	3.7	3.9	3.9	13.8	13.6	20.9	20.9				
IM22A	Cloudy	Calm	19:46	4.5	S	0.5	201.8	28.8	29.0	23.4	22.9	7.8	7.8	65.8	65.8	4.5	4.5	4.5	17.4	17.2	17.0	17.4	19.9	22.1		
						0.2	76.4	29.2	29.0	22.4	22.9	7.8	7.8	65.8	65.8	4.5	4.5	4.5	16.9	17.2		21.3				
					B	0.2	272.7	27.8	27.9	24.7	24.6	7.8	7.8	66.0	64.9	4.5	4.4	4.4	16.2	16.8	24.0	24.0	4.4		16.2	24.2
						0.6	4.0	28.1	27.9	24.4	24.6	7.8	7.8	63.8	64.9	4.4	4.4	4.4	17.4	16.8	24.4	24.4				

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; S: 1 m above the seabed

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2019/08/30

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
F3	Cloudy	Calm	12:15	17.6	S	0.6	157.7	27.9	27.9	28.1	28.2	8.2	8.2	118.7	116.6	8.0	7.8	6.6	1.7	1.8	1.6	1.7
						0.6	157.7	27.9	27.9	28.3	28.2	8.2	8.2	114.5	116.6	7.7	7.8	6.6	1.8	1.8	1.8	1.7
						0.6	104.3	27.2	27.1	29.8	29.8	8.0	8.0	80.2	80.3	5.4	5.4	6.6	2.7	2.8	2.3	2.3
					M	0.7	126.0	27.1	27.1	29.8	29.8	8.0	8.0	80.4	80.3	5.4	5.4	6.6	2.8	2.8	2.3	2.3
						0.4	131.5	25.8	25.8	32.4	32.4	7.8	7.8	37.3	36.1	2.5	2.5	2.5	17.5	19.7	2.2	2.4
						0.4	116.6	25.8	25.8	32.4	32.4	7.8	7.8	35.0	36.1	2.4	2.5	2.5	21.8	19.7	2.2	2.4
F4	Cloudy	Calm	10:04	14.3	S	0.3	150.7	27.9	27.9	27.7	27.7	8.2	8.2	118.2	117.9	8.0	7.9	7.8	2.2	2.9	2.2	2.3
						0.3	150.7	27.9	27.9	27.6	27.7	8.2	8.2	117.6	117.9	7.9	7.9	7.8	2.9	2.9	2.4	2.3
						0.5	38.0	27.9	27.9	28.0	28.0	8.2	8.2	113.9	114.2	7.6	7.7	7.7	2.2	2.1	2.4	2.5
					M	0.2	128.9	27.9	27.9	28.0	28.0	8.2	8.2	114.6	114.2	7.7	7.7	7.7	2.0	2.1	2.5	2.5
						0.1	241.6	26.7	26.7	30.5	30.5	7.9	7.9	56.3	55.3	3.8	3.7	3.7	10.5	11.5	14.8	14.9
						0.1	167.2	26.7	26.7	30.5	30.5	7.9	7.9	54.4	55.3	3.7	3.7	3.7	12.5	11.5	14.9	14.9
B	0.1	167.2	26.7	26.7	30.5	30.5	7.9	7.9	54.4	55.3	3.7	3.7	3.7	12.5	11.5	14.9	14.9					
	0.3	162.9	27.7	27.8	24.9	24.7	7.9	7.9	71.9	73.0	4.9	5.0	5.0	6.4	6.5	8.9	8.5					
	0.2	294.3	27.8	27.8	24.6	24.7	7.9	7.9	74.0	73.0	5.1	5.0	5.0	6.5	6.5	8.0	8.5					
F5	Cloudy	Moderate	13:11	5.5	S	0.7	176.3	27.6	27.6	26.4	26.4	7.9	7.9	70.5	69.7	4.8	4.7	4.7	23.2	23.5	29.9	30.2
						0.8	201.1	27.6	27.6	26.4	26.4	7.9	7.9	68.8	69.7	4.7	4.7	4.7	23.8	23.5	30.4	30.2
						0.9	134.4	28.1	28.1	22.3	22.3	7.8	7.8	72.8	74.0	5.0	5.1	5.1	5.9	5.4	4.6	5.1
					M	0.9	134.4	28.1	28.1	22.2	22.3	7.8	7.8	75.2	74.0	5.2	5.1	5.1	5.0	5.4	5.6	5.1
						0.8	125.2	27.8	27.8	24.1	24.1	7.8	7.8	65.1	65.2	4.5	4.5	4.5	10.1	10.1	11.5	12.0
						1.1	157.1	27.8	27.8	24.1	24.1	7.8	7.8	65.3	65.2	4.5	4.5	4.5	10.0	10.1	12.4	12.0
B	0.2	357.7	27.2	27.2	26.1	26.1	7.8	7.8	62.5	62.3	4.3	4.3	4.3	47.4	45.7	38.8	39.6					
	0.7	130.1	27.2	27.2	26.1	26.1	7.8	7.8	62.2	62.3	4.3	4.3	4.3	44.1	45.7	40.3	39.6					
	0.1	318.2	28.9	28.9	29.4	29.4	8.2	8.2	125.9	127.7	8.2	8.4	8.0	3.0	2.8	5.6	5.9					
IM1	Cloudy	Calm	14:30	8.8	S	0.1	318.2	28.8	28.8	29.4	29.4	8.2	8.2	129.6	127.7	8.5	8.4	8.0	2.5	2.8	6.2	5.9
						0.1	292.0	28.3	28.1	29.8	29.9	8.2	8.2	117.2	115.6	7.7	7.7	7.7	3.7	3.7	5.9	6.1
						0.4	333.2	27.9	28.1	30.0	29.9	8.2	8.2	114.1	115.6	7.6	7.7	7.7	3.6	3.7	6.2	6.1
					M	0.1	254.8	27.6	27.6	30.4	30.4	8.1	8.1	99.9	99.6	6.6	6.6	6.6	5.1	4.9	8.4	8.3
						0.3	86.0	27.6	27.6	30.4	30.4	8.1	8.1	99.3	99.6	6.6	6.6	6.6	4.8	4.9	8.2	8.3
						0.9	208.8	26.3	26.3	29.4	29.4	8.0	8.0	86.6	86.3	5.9	5.9	5.9	4.1	4.0	10.0	9.5
IM2	Cloudy	Calm	14:53	10.6	S	0.9	208.8	26.3	26.3	29.4	29.4	8.0	8.0	85.9	84.9	5.9	5.8	5.9	4.0	4.0	9.0	9.5
						0.9	209.0	26.3	26.3	29.5	29.5	8.0	8.0	84.8	84.9	5.8	5.8	5.8	6.9	7.1	13.9	13.1
						0.9	209.0	26.3	26.3	29.5	29.5	8.0	8.0	84.9	84.9	5.8	5.8	5.8	7.3	7.1	12.3	13.1
					M	0.8	198.5	26.3	26.3	29.6	29.6	8.0	8.0	86.6	86.3	5.9	5.9	5.9	16.5	16.2	22.4	23.7
						0.9	194.1	26.3	26.3	29.6	29.6	8.0	8.0	86.1	86.3	5.9	5.9	5.9	15.9	16.2	24.9	23.7
						0.4	124.5	27.6	27.6	28.0	28.0	8.2	8.2	111.3	112.2	7.5	7.6	7.6	5.1	5.2	8.4	8.2
IM3	Cloudy	Calm	13:17	14.4	S	0.4	124.5	27.7	27.6	28.0	28.0	8.2	8.2	113.1	112.2	7.6	7.6	7.6	5.3	5.2	8.0	8.2
						0.3	119.5	26.5	26.5	30.6	30.6	8.0	8.0	61.9	62.0	4.2	4.2	4.2	11.0	11.0	15.5	15.0
						0.2	135.8	26.5	26.5	30.7	30.6	8.0	8.0	62.1	62.0	4.2	4.2	4.2	11.1	11.0	14.4	15.0
					M	0.2	113.7	26.1	26.1	31.9	31.9	7.9	7.9	49.2	49.0	3.3	3.3	3.3	16.4	16.2	22.3	22.7
						0.1	359.6	26.1	26.1	31.9	31.9	7.9	7.9	48.9	49.0	3.3	3.3	3.3	15.9	16.2	23.1	22.7
						0.4	113.7	27.9	27.9	28.1	28.1	8.3	8.3	127.3	127.8	8.5	8.6	8.6	1.8	1.9	3.7	3.5
IM4	Cloudy	Calm	12:55	16.2	S	0.4	113.7	27.9	27.9	28.1	28.1	8.3	8.3	128.4	127.8	8.6	8.6	8.6	2.0	1.9	3.3	3.5
						0.5	93.0	27.6	27.6	28.5	28.5	8.2	8.1	99.3	99.4	6.7	6.7	6.7	3.2	3.3	5.2	5.2
						0.5	106.7	27.6	27.6	28.5	28.5	8.1	8.1	99.5	99.4	6.7	6.7	6.7	3.3	3.3	5.2	5.2
					M	0.3	81.8	26.1	26.0	31.7	31.8	7.9	7.9	46.8	45.3	3.2	3.1	3.1	31.2	34.4	55.2	56.9
						0.3	142.1	26.0	26.0	32.0	31.8	7.9	7.9	43.8	45.3	3.0	3.1	3.1	37.5	34.4	58.6	56.9
						0.1	166.0	28.0	28.0	28.2	28.2	8.2	8.2	116.8	117.0	7.8	7.8	7.8	1.6	1.6	2.1	2.0
IM5	Cloudy	Calm	12:36	15.3	S	0.1	166.0	28.0	28.0	28.2	28.2	8.2	8.2	117.2	117.0	7.8	7.8	7.8	1.6	1.6	1.9	2.0
						0.5	94.3	27.3	27.3	29.3	29.4	8.0	8.0	79.2	77.1	5.3	5.2	5.2	2.5	2.4	4.7	5.1
						0.4	52.4	27.2	27.3	29.4	29.4	8.0	8.0	75.1	77.1	5.1	5.2	5.2	2.3	2.4	5.4	5.1
					M	0.3	117.5	25.9	25.9	32.0	32.0	7.8	7.8	36.1	35.1	2.5	2.4	2.4	28.5	30.7	25.1	26.4
						0.3	117.5	25.9	25.9	32.0	32.0	7.8	7.8	34.1	35.1	2.3	2.4	2.4	33.0	30.7	27.6	26.4
						0.3	117.5	25.9	25.9	32.0	32.0	7.8	7.8	34.1	35.1	2.3	2.4	2.4	33.0	30.7	27.6	26.4

Water Quality Monitoring Data Log Sheet

Date: 2019/08/30

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
IM15	Cloudy	Moderate	12:48	6.5	S	1.1	243.7	27.6	27.6	25.0	25.0	7.9	7.9	73.7	74.0	5.1	5.1	4.8	6.6	5.8	5.6	5.8	
						0.8	229.7	27.6	27.6	25.0	25.0	7.9	7.9	74.3	74.0	5.1	5.1	4.8	5.0	5.8	6.0	5.8	
					M	0.5	194.0	27.4	27.4	26.7	26.7	7.9	7.9	66.4	66.3	4.5	4.5	4.5	33.7	32.9	39.7	37.8	35.9
						0.7	265.9	27.4	27.4	26.7	26.7	7.9	7.9	66.2	66.3	4.5	4.5	4.5	32.0	32.9	35.8	37.8	
					B	0.7	232.2	27.4	27.4	26.9	26.9	7.9	7.9	67.1	66.6	4.6	4.5	4.5	47.0	46.9	61.8	64.0	64.0
						0.9	223.4	27.4	27.4	26.9	26.9	7.9	7.9	66.1	66.6	4.5	4.5	4.5	46.8	46.9	66.2	64.0	
IM16A	Cloudy	Moderate	12:20	7.5	S	1.1	172.8	28.4	28.4	19.5	19.6	7.8	7.8	72.1	71.5	5.0	5.0	5.0	5.9	5.9	5.9	6.2	
						0.8	136.5	28.4	28.4	19.8	19.6	7.8	7.8	70.8	71.5	4.9	5.0	5.0	5.9	5.9	6.5	6.2	
					M	1.3	180.4	27.7	27.7	24.4	24.2	7.9	7.9	70.8	71.7	4.9	4.9	4.9	11.2	9.9	53.1	52.8	43.4
						0.5	162.5	27.7	27.7	23.9	24.2	7.9	7.9	72.6	71.7	5.0	4.9	4.9	8.5	9.9	52.5	52.8	
					B	0.2	185.5	27.5	27.5	26.0	26.0	7.8	7.8	65.1	64.2	4.5	4.4	4.4	39.6	39.5	69.8	71.3	71.3
						0.9	197.4	27.5	27.5	25.9	26.0	7.9	7.8	63.3	64.2	4.3	4.4	4.4	39.3	39.5	72.7	71.3	
IM17	Cloudy	Moderate	11:16	5.5	S	1.0	120.4	28.0	28.0	22.1	22.1	7.8	7.8	69.8	69.7	4.8	4.8	4.8	7.2	7.1	6.8	7.0	
						0.9	102.9	28.0	28.0	22.2	22.1	7.8	7.8	69.6	69.7	4.8	4.8	4.8	7.0	7.1	7.2	7.0	
					B	0.7	156.7	27.8	27.9	24.0	23.7	7.8	7.8	68.0	66.5	4.7	4.6	4.6	14.6	13.7	11.7	11.5	9.3
						0.4	58.4	27.9	27.9	23.5	23.7	7.8	7.8	65.1	66.5	4.5	4.6	4.6	12.7	13.7	11.3	11.5	
IM18	Cloudy	Moderate	11:31	18.0	S	0.1	75.5	27.9	27.9	22.8	22.8	7.8	7.8	71.3	71.4	4.9	4.9	4.9	7.9	7.4	12.9	12.9	
						0.6	257.0	27.9	27.9	22.8	22.8	7.8	7.8	71.5	71.4	4.9	4.9	4.9	7.0	7.4	12.9	12.9	
					M	0.6	132.3	28.0	28.0	22.9	22.9	7.8	7.8	69.2	69.5	4.8	4.8	4.8	9.6	9.4	13.8	14.1	51.2
						0.6	145.6	28.0	28.0	22.9	22.9	7.8	7.8	69.8	69.5	4.8	4.8	4.8	9.2	9.4	14.4	14.1	
					B	1.2	136.8	27.1	27.1	26.5	26.5	7.8	7.8	58.6	58.3	4.0	4.0	4.0	78.7	75.6	125.0	126.5	126.5
						0.6	181.1	27.1	27.1	26.4	26.5	7.8	7.8	58.1	58.3	4.0	4.0	4.0	72.5	75.6	128.0	126.5	
IM19	Cloudy	Moderate	10:58	18.5	S	0.6	118.5	28.1	28.1	23.1	23.0	7.8	7.8	62.6	62.8	4.3	4.3	4.3	14.5	14.3	19.0	18.5	
						0.6	118.5	28.2	28.1	23.0	23.0	7.8	7.8	63.0	62.8	4.3	4.3	4.3	14.2	14.3	17.9	18.5	
					M	0.1	106.1	27.7	27.7	24.3	24.2	7.8	7.8	62.3	62.3	4.3	4.3	4.3	19.7	18.3	26.0	26.1	30.5
						0.1	106.1	27.8	27.7	24.2	24.2	7.8	7.8	62.4	62.3	4.3	4.3	4.3	16.9	18.3	26.2	26.1	
					B	1.1	144.5	26.8	26.7	27.4	27.4	7.8	7.8	59.7	58.7	4.1	4.0	4.0	29.2	31.4	45.6	47.0	47.0
						0.6	104.6	26.7	26.7	27.5	27.4	7.8	7.8	57.7	58.7	4.0	4.0	4.0	33.6	31.4	48.4	47.0	
IM20A	Cloudy	Moderate	09:54	5.5	S	0.5	200.4	28.5	28.5	20.0	20.0	7.7	7.7	68.3	68.4	4.7	4.8	4.8	6.8	6.7	8.8	9.2	
						0.5	200.4	28.6	28.5	19.9	20.0	7.7	7.7	68.5	68.4	4.8	4.8	4.8	6.6	6.7	9.5	9.2	
					B	0.3	278.2	27.9	27.9	23.7	23.6	7.7	7.7	63.6	62.9	4.4	4.3	4.3	39.5	36.9	51.1	50.6	50.6
						0.9	146.9	27.9	27.9	23.6	23.6	7.7	7.7	62.3	62.9	4.3	4.3	4.3	34.3	36.9	50.0	50.6	
IM21A	Cloudy	Moderate	10:05	5.5	S	0.4	186.7	28.0	28.0	23.3	23.4	7.7	7.7	62.6	62.6	4.3	4.3	4.3	31.8	32.7	35.4	35.8	
						0.4	186.7	28.0	28.0	23.4	23.4	7.7	7.7	62.6	62.6	4.3	4.3	4.3	33.5	32.7	36.2	35.8	
					B	0.7	208.1	28.0	28.0	23.7	23.7	7.7	7.7	64.2	63.4	4.4	4.4	4.4	67.6	62.7	74.1	75.4	75.4
						0.4	356.1	28.0	28.0	23.7	23.7	7.7	7.7	62.5	63.4	4.3	4.4	4.4	57.8	62.7	76.6	75.4	
IM22A	Cloudy	Moderate	10:11	5.5	S	1.1	190.7	29.4	29.4	23.6	23.6	7.8	7.8	68.8	68.8	4.6	4.6	4.6	40.7	40.4	55.4	56.3	
						1.1	190.7	29.4	29.4	23.6	23.6	7.8	7.8	68.8	68.8	4.6	4.6	4.6	40.2	40.4	57.1	56.3	
					B	0.6	359.5	29.4	29.4	23.6	23.6	7.7	7.7	70.7	69.9	4.7	4.7	4.7	39.9	40.3	58.4	58.0	58.0
						0.4	83.8	29.4	29.4	23.6	23.6	7.7	7.7	69.2	69.9	4.6	4.7	4.7	40.8	40.3	57.6	58.0	

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; S: 1 m above the seabed

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2019/08/30

Tide: Mid-Flood

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
E1	Fine	Calm	16:44	7.7	S	0.9	172.9	26.4	26.4	28.1	28.2	7.8	7.8	66.7	66.5	4.6	4.6	4.5	8.3	8.4	10.1	10.4	26.7
						0.9	172.9	26.4	26.4	28.2	28.2	7.8	7.8	66.4	66.5	4.6	4.6	4.5	8.3	8.4	10.1	10.4	
						0.5	230.1	26.2	26.2	28.6	28.7	7.7	7.7	64.1	64.1	4.4	4.4	4.4	16.1	16.1	23.3	23.0	
					M	0.6	228.8	26.2	26.2	28.7	28.7	7.8	7.7	64.2	64.2	4.4	4.4	4.4	15.8	16.1	22.7	23.0	
						0.5	219.4	26.1	26.1	29.0	29.0	7.7	7.7	64.3	64.0	4.4	4.4	4.4	38.3	39.2	44.2	46.8	
						0.3	219.1	26.1	26.1	29.0	29.0	7.7	7.7	63.8	64.0	4.4	4.4	4.4	40.0	39.2	49.4	46.8	
E2	Fine	Calm	22:02	8.8	S	0.3	313.7	27.5	27.5	28.3	28.2	8.2	8.2	99.9	100.1	6.7	6.8	6.4	5.9	5.8	7.6	7.3	17.8
						0.3	311.6	27.5	27.5	28.2	28.2	8.2	8.2	100.4	100.1	6.7	6.8	6.4	5.9	5.8	7.6	7.3	
						0.1	2.6	27.2	27.2	29.0	29.0	8.1	8.1	90.3	90.8	6.1	6.1	6.1	7.5	7.0	9.7	9.8	
					M	0.1	346.0	27.2	27.2	29.0	29.0	8.1	8.1	91.2	90.8	6.2	6.1	6.1	6.6	7.0	9.9	9.8	
						0.3	338.5	27.1	27.1	29.3	29.3	8.1	8.1	83.9	83.4	5.7	5.6	5.6	16.7	17.2	36.5	36.3	
						0.3	338.5	27.1	27.1	29.3	29.3	8.1	8.1	83.0	83.4	5.6	5.6	5.6	17.8	17.2	36.1	36.3	
E3	Fine	Calm	20:59	16.7	S	0.3	353.5	27.8	27.8	23.1	23.4	7.9	7.9	72.5	72.2	5.0	5.0	5.2	6.9	7.0	15.4	15.1	23.7
						0.3	353.5	27.8	27.8	23.8	23.4	7.9	7.9	71.9	72.2	5.0	5.0	5.2	6.9	7.0	14.7	15.1	
						0.7	297.5	27.3	27.3	28.9	28.8	8.1	8.1	79.0	79.1	5.3	5.3	5.3	11.4	11.4	16.7	17.0	
					M	0.7	299.5	27.3	27.3	28.8	28.8	8.1	8.1	79.2	79.1	5.3	5.3	5.3	11.0	11.4	17.2	17.0	
						0.6	293.4	27.2	27.2	29.1	29.1	8.1	8.1	76.4	76.3	5.2	5.1	5.1	24.0	24.3	38.5	39.0	
						0.6	293.4	27.2	27.2	29.1	29.1	8.1	8.1	76.2	76.3	5.1	5.1	5.1	24.6	24.3	39.5	39.0	
E4	Cloudy	Moderate	17:55	10.5	S	0.5	268.8	28.1	28.1	22.9	22.8	7.8	7.8	70.4	70.6	4.8	4.9	4.8	15.0	14.8	20.0	20.6	36.7
						0.5	268.8	28.1	28.1	22.8	22.8	7.8	7.8	70.8	70.6	4.9	4.9	4.8	14.7	14.8	21.1	20.6	
						1.1	39.5	27.8	27.8	24.9	24.9	7.9	7.9	68.4	68.4	4.7	4.7	4.7	17.7	17.4	26.2	26.1	
					M	0.4	16.3	27.8	27.8	24.9	24.9	7.9	7.9	68.4	68.4	4.7	4.7	4.7	17.1	17.4	26.0	26.1	
						0.4	355.3	27.7	27.7	25.5	25.5	7.9	7.9	67.5	67.2	4.6	4.6	4.6	43.2	42.6	65.3	63.4	
						1.3	3.5	27.7	27.7	25.5	25.5	7.9	7.9	66.9	67.2	4.6	4.6	4.6	42.1	42.6	61.4	63.4	
E5	Cloudy	Moderate	19:00	5.5	S	1.1	344.8	28.5	28.5	19.5	19.5	7.7	7.7	62.0	62.0	4.3	4.3	4.3	22.3	22.2	25.6	27.6	38.4
						1.1	344.8	28.5	28.5	19.6	19.5	7.7	7.7	62.0	62.0	4.3	4.3	4.3	22.0	22.2	25.6	27.6	
						0.5	2.3	28.5	28.5	19.8	19.7	7.7	7.7	63.2	62.6	4.4	4.4	4.4	37.2	35.5	47.8	49.2	
					B	0.3	309.3	28.5	28.5	19.7	19.7	7.7	7.7	62.0	62.6	4.3	4.4	4.4	33.9	35.5	50.5	49.2	
						0.5	13.0	27.9	28.1	22.9	21.4	7.7	7.7	55.6	55.6	3.8	3.9	3.9	41.1	37.5	32.3	34.4	
						0.5	13.0	28.2	28.1	20.0	21.4	7.7	7.7	55.5	55.6	3.9	3.9	3.9	33.8	37.5	36.5	34.4	
E6	Cloudy	Moderate	21:07	5.5	S	0.7	340.9	27.7	27.7	23.8	23.8	7.7	7.7	55.9	55.6	3.9	3.8	3.8	60.9	61.9	101.0	104.0	69.2
						0.9	10.1	27.7	27.7	23.8	23.8	7.7	7.7	55.4	55.6	3.8	3.8	3.8	62.9	61.9	107.0	104.0	
						0.6	339.4	28.7	28.7	18.9	18.9	7.7	7.7	64.1	64.0	4.5	4.5	4.5	9.1	8.8	14.2	14.5	
					B	0.4	58.9	28.7	28.7	19.0	18.9	7.7	7.7	63.8	64.0	4.4	4.5	4.5	8.5	8.8	14.8	14.5	
						0.7	14.7	28.2	28.2	22.1	22.1	7.7	7.7	64.9	63.8	4.5	4.4	4.4	24.1	26.4	38.1	36.3	
						0.1	37.8	28.2	28.2	22.2	22.1	7.7	7.7	62.8	63.8	4.3	4.4	4.4	28.6	26.4	34.5	36.3	
F1	Fine	Calm	17:38	19.4	S	0.2	296.7	27.6	27.6	28.2	28.2	8.4	8.4	142.7	143.2	9.6	9.6	7.8	2.3	2.2	4.6	5.0	39.6
						0.2	296.7	27.6	27.6	28.2	28.2	8.4	8.4	143.7	143.2	9.7	9.6	7.8	2.2	2.2	5.3	5.0	
						0.3	268.1	27.9	27.9	31.0	31.0	8.2	8.2	87.4	89.2	5.8	5.9	5.9	8.1	7.6	8.6	8.9	
					M	0.3	299.5	27.9	27.9	31.0	31.0	8.2	8.2	90.9	89.2	6.0	6.0	6.0	7.2	7.6	9.2	9.2	
						0.4	286.1	24.0	24.0	34.1	34.1	7.8	7.8	31.5	30.9	2.2	2.1	2.1	77.8	74.4	106.0	105.0	
						0.4	289.7	24.0	24.0	34.1	34.1	7.8	7.8	30.3	30.9	2.1	2.1	2.1	70.9	74.4	104.0	105.0	
F2	Fine	Calm	18:07	18.8	S	0.5	272.5	27.8	27.9	28.1	28.1	8.3	8.3	123.9	126.3	8.3	8.5	7.0	3.0	3.0	3.3	3.4	9.5
						0.5	272.5	27.9	27.9	28.1	28.1	8.3	8.3	128.7	126.3	8.6	8.5	7.0	3.0	3.0	3.4	3.4	
						0.1	262.0	27.3	27.3	29.2	29.1	8.1	8.1	80.8	81.5	5.4	5.5	5.5	2.8	2.7	4.2	4.2	
					M	0.1	262.0	27.3	27.3	29.1	29.1	8.1	8.1	82.2	81.5	5.5	5.5	5.5	2.7	2.7	4.1	4.2	
						0.2	31.0	24.6	24.6	34.1	34.1	7.8	7.8	31.9	31.3	2.2	2.1	2.1	15.9	15.9	21.9	21.0	
						0.2	31.0	24.6	24.6	34.1	34.1	7.8	7.8	30.7	31.3	2.1	2.1	2.1	15.9	15.9	20.0	21.0	

Water Quality Monitoring Data Log Sheet

Date: 2019/08/30

Tide: Mid-Flood

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
IM15	Cloudy	Moderate	18:49	5.5	S	0.7	346.7	28.2	28.2	22.2	22.2	7.8	7.8	69.3	69.2	4.8	4.8	4.8	11.7	11.5	12.8	13.8	17.2
						1.4	0.9	28.2	22.2	22.2	7.8	7.8	69.1	69.2	4.8	4.8	4.8	11.7	11.5	12.8	14.3		
					B	1.2	21.1	27.9	27.9	24.4	24.4	7.9	7.9	71.7	71.0	4.9	4.9	4.9	14.2	14.2	12.8	14.8	20.0
						0.4	2.0	27.9	27.9	24.5	24.4	7.9	7.9	70.3	71.0	4.8	4.9	4.9	14.1	14.2	12.8	19.0	
IM16A	Cloudy	Moderate	19:14	6.5	S	1.4	271.1	28.5	28.5	19.4	19.4	7.7	7.7	58.0	58.0	4.0	4.0	4.1	24.5	23.5	22.9	35.9	37.3
						1.4	271.1	28.5	28.5	19.3	19.4	7.7	7.7	58.0	58.0	4.0	4.0	4.1	22.5	23.5		22.9	
					M	0.6	6.1	28.5	28.5	19.5	19.4	7.7	7.7	58.5	58.4	4.1	4.1	4.1	21.5	21.7	4.1	37.0	37.5
						0.6	6.1	28.5	28.5	19.4	19.4	7.7	7.7	58.3	58.4	4.1	4.1	4.1	21.9	21.7		4.1	
					B	0.2	76.2	28.5	28.5	19.7	19.7	7.7	7.7	60.3	60.0	4.2	4.2	4.2	22.5	23.4	4.2	39.8	38.9
						0.4	28.2	28.5	28.5	19.8	19.7	7.7	7.7	59.6	60.0	4.2	4.2	4.2	24.3	23.4		4.2	
IM17	Cloudy	Moderate	20:29	5.0	S	0.4	333.4	28.5	28.5	19.3	19.3	7.7	7.7	56.0	56.1	3.9	3.9	3.9	53.9	50.3	63.1	74.3	109.9
						0.4	333.4	28.5	28.5	19.3	19.3	7.7	7.7	56.2	56.1	3.9	3.9	3.9	46.6	50.3		63.1	
					B	0.6	78.6	28.5	28.5	19.6	19.5	7.7	7.7	55.6	55.6	3.9	3.9	3.9	79.7	75.9	3.9	150.0	144.0
						1.1	19.1	28.5	28.5	19.5	19.5	7.7	7.7	55.7	55.6	3.9	3.9	3.9	72.1	75.9		3.9	
IM18	Cloudy	Moderate	20:08	17.0	S	1.0	69.1	28.8	28.8	16.7	16.2	7.7	7.7	58.0	59.3	4.1	4.2	4.0	10.0	9.3	4.0	10.4	20.8
						1.0	13.5	28.8	28.8	15.8	16.2	7.7	7.7	60.6	60.6	4.3	4.2	4.0	8.6	9.3		4.0	
					M	0.9	331.0	27.7	27.7	23.7	23.7	7.8	7.8	56.7	56.7	3.9	3.9	3.9	22.4	21.8	3.9	31.1	31.2
						0.6	332.5	27.7	27.7	23.7	23.7	7.8	7.8	56.6	56.7	3.9	3.9	3.9	21.2	21.8		3.9	
					B	0.7	8.6	27.3	27.3	25.6	25.5	7.8	7.8	53.7	53.7	3.7	3.7	3.7	143.0	143.0	3.7	223.0^	-
						0.8	338.3	27.3	27.3	25.5	25.5	7.8	7.8	53.7	53.7	3.7	3.7	3.7	143.0	143.0		3.7	
IM19	Cloudy	Moderate	20:47	17.5	S	0.5	245.4	28.8	28.8	18.3	17.7	7.7	7.7	62.8	62.7	4.4	4.4	4.5	9.3	8.9	4.5	10.4	55.8
						0.5	245.4	28.9	28.8	17.2	17.7	7.7	7.7	62.6	62.7	4.4	4.4	4.5	8.6	8.9		4.5	
					M	0.8	53.1	28.4	28.4	21.3	21.3	7.8	7.8	65.3	65.4	4.5	4.5	4.5	10.1	9.7	4.5	11.6	11.4
						0.8	53.1	28.4	28.4	21.3	21.3	7.8	7.8	65.6	65.4	4.5	4.5	4.5	9.2	9.7		4.5	
					B	0.8	324.4	27.1	27.1	26.8	26.8	7.8	7.8	65.0	65.0	4.5	4.5	4.5	103.1	104.2	4.5	146.0	146.0
						0.5	326.8	27.1	27.1	26.8	26.8	7.8	7.8	65.0	65.0	4.5	4.5	4.5	105.4	104.2		4.5	
IM20A	Cloudy	Moderate	21:45	4.5	S	0.8	127.5	29.1	29.1	17.5	17.5	7.7	7.7	64.7	64.8	4.5	4.5	4.5	12.4	12.4	12.3	14.5	16.2
						0.8	127.5	29.1	29.1	17.5	17.5	7.7	7.7	64.8	64.8	4.5	4.5	4.5	12.5	12.4		12.3	
					B	0.3	56.0	28.9	28.9	18.2	18.6	7.7	7.7	66.5	65.4	4.6	4.5	4.5	11.1	12.1	4.5	17.6	18.0
						0.3	56.0	28.8	28.9	19.1	18.6	7.7	7.7	64.3	65.4	4.5	4.5	4.5	13.2	12.1		4.5	
IM21A	Cloudy	Moderate	21:36	4.5	S	0.5	282.1	29.9	29.9	19.4	19.5	7.7	7.7	69.6	69.3	4.7	4.7	4.7	33.5	32.7	35.1	36.0	39.6
						0.5	282.1	29.8	29.9	19.6	19.5	7.7	7.7	68.9	69.3	4.7	4.7	4.7	31.9	32.7		35.1	
					B	0.2	147.7	28.0	27.9	24.1	24.0	7.7	7.7	61.4	60.4	4.2	4.1	4.1	37.3	37.5	4.1	44.0	44.2
						0.5	182.8	27.9	27.9	24.0	24.0	7.7	7.7	59.3	60.4	4.1	4.1	4.1	37.7	37.5		4.1	
IM22A	Cloudy	Moderate	21:30	4.5	S	0.8	212.2	29.3	29.3	19.4	19.4	7.7	7.7	67.0	67.1	4.6	4.6	4.6	29.7	30.0	37.5	36.0	52.0
						0.8	212.2	29.4	29.3	19.5	19.4	7.7	7.7	67.2	67.1	4.6	4.6	4.6	30.4	30.0		37.5	
					B	0.1	12.8	28.9	28.8	22.5	22.7	7.7	7.7	67.9	66.1	4.6	4.5	4.5	43.0	44.9	4.5	68.8	70.0
						0.6	176.0	28.7	28.8	22.9	22.7	7.7	7.7	64.3	66.1	4.4	4.5	4.5	46.9	44.9		4.5	

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; S: 1 m above the seabed

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2019/09/04

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*
E1	Cloudy	Moderate	18:04	8.7	S	0.1	183.7	27.0	27.0	28.8	28.8	8.0	8.0	74.1	74.1	5.0	5.0	5.0	5.0	5.9	5.9	6.5	6.1	10.3		
						0.1	183.7	27.0		28.8		8.0		74.2		5.0		5.9		5.9		5.6				
						0.3	154.9	27.0	27.0	29.0	29.0	8.0	8.0	73.0	72.7	4.9	4.9	4.9	4.9	4.5	4.5	6.1	5.9		6.1	5.6
						0.3	227.8	27.0		28.9		8.0		72.4		4.9		6.1		16.6	16.6	5.1			32.1	19.2
						0.5	182.6	27.0	27.0	30.5	30.5	8.1	8.1	67.7	67.5	4.6	4.5	4.5	4.5	16.5	16.5	6.2				
						0.4	181.2	27.1		30.5		8.1		67.3		4.5		4.5				6.2				
E2	Rainy	Rough	17:33	8.4	S	0.1	76.0	27.4	27.4	29.2	29.2	8.0	8.0	89.0	89.0	6.0	6.0	6.0	6.0	1.8	1.8	4.6	4.7	4.5		
						0.1	77.0	27.4		29.2		8.0		89.0		6.0		6.0		6.0		1.8			4.8	
						0.2	70.0	27.4	27.4	29.2	29.2	8.0	8.0	88.6	88.6	6.0	6.0	6.0	6.0	6.0	6.0	1.8	1.8		5.1	5.4
						0.2	72.0	27.4		29.2		8.0		88.6		6.0		6.0		6.0		1.8			5.7	
						0.2	52.0	27.3	27.3	29.4	29.4	8.0	8.0	85.2	85.2	5.7	5.7	5.7	5.7	7.4	7.3	7.2	7.3		3.5	3.3
						0.2	53.0	27.3		29.4		8.0		85.2		5.7		5.7		7.2		7.3			3.1	
E3	Cloudy	Rough	16:11	16.3	S	0.4	145.0	27.9	27.9	25.8	25.8	8.1	8.1	88.6	88.6	6.0	6.0	6.0	6.0	3.3	3.3	4.4	4.9	7.4		
						0.4	150.0	27.9		25.8		8.1		88.6		6.0		6.0		6.0		3.3			5.3	
						0.5	135.0	27.3	27.3	30.2	30.2	8.1	8.1	86.5	86.5	5.8	5.8	5.8	5.8	3.5	3.5	3.6	3.5		7.7	8.2
						0.5	147.0	27.3		30.2		8.1		86.4		5.8		5.8		3.5		3.5			8.7	
						0.3	112.0	27.3	27.3	30.4	30.4	8.1	8.1	86.2	86.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7		8.8	9.2
						0.4	121.0	27.3		30.4		8.1		86.4		5.8		5.8		5.7		5.7			9.6	
E4	Cloudy	Moderate	14:58	12.0	S	0.3	211.0	27.6	27.6	27.1	27.0	8.1	8.1	83.4	83.5	5.7	5.7	5.7	5.7	4.5	4.5	4.8	5.3	12.1		
						0.3	214.0	27.6		26.9		8.1		83.5		5.7		5.7		4.5		4.5			5.7	
						0.3	203.0	27.3	27.3	29.5	29.5	8.1	8.1	81.0	81.0	5.5	5.5	5.5	5.5	7.9	7.9	7.9	7.9		10.4	10.5
						0.4	214.0	27.3		29.6		8.1		81.0		5.5		5.5		7.9		7.9			10.6	
						0.3	185.0	27.3	27.3	30.1	30.1	8.1	8.1	80.9	80.9	5.4	5.4	5.4	5.4	27.6	26.1	24.7	26.1		20.5	20.5
						0.3	197.0	27.3		30.1		8.1		80.9		5.4		5.4		20.4		20.4			20.4	
E5	Cloudy	Calm	17:15	5.5	S	1.1	212.8	28.2	28.2	22.6	22.8	8.1	8.0	82.0	81.9	5.6	5.6	5.6	5.6	5.2	4.9	5.6	6.1	12.8		
						0.6	295.0	28.2		23.0		8.0		81.9		5.6		5.6		4.6		4.6			6.6	
						0.5	289.6	27.8	27.8	26.9	26.9	8.1	8.1	82.2	81.2	5.6	5.5	5.5	5.5	13.7	14.9	13.7	14.9		20.5	19.5
						0.8	183.1	27.8		26.9		8.1		80.2		5.4		5.4		16.0		16.0			18.5	
						0.7	23.0	28.3	28.3	21.2	21.2	7.9	7.9	75.8	75.8	5.3	5.3	5.3	5.3	4.2	4.2	4.2	4.2		3.5	4.0
						0.7	23.0	28.3		21.1		7.9		75.8		5.3		5.3		4.2		4.2			4.4	
E6	Cloudy	Calm	15:18	6.5	M	0.2	117.8	28.2	28.2	21.9	21.9	7.9	7.9	75.8	76.1	5.2	5.3	5.3	5.3	3.7	3.6	4.7	5.3	5.1		
						0.3	39.7	28.2	28.2	21.9	21.9	7.9	7.9	76.5	76.1	5.3	5.3	5.3	5.3	3.5	3.6	3.5	3.6			
						0.4	274.5	28.1	28.0	22.5	22.7	7.9	7.9	76.7	75.7	5.3	5.2	5.2	5.2	3.9	3.9	3.9	3.9		6.2	6.0
						0.4	274.5	28.0		23.0		7.9		74.7		5.2		5.2		3.9		3.9			5.7	
						0.6	123.6	28.8	28.8	19.2	19.3	7.7	7.7	78.0	78.4	5.4	5.4	5.4	5.4	4.3	4.1	4.3	4.1		2.2	2.6
						0.7	210.6	28.8		19.3		7.7		78.9		5.5		5.4		3.9		3.9			3.0	
E7A	Cloudy	Calm	14:22	5.5	B	0.3	24.6	28.0	28.0	23.6	23.6	7.8	7.8	72.9	72.3	5.0	5.0	5.0	5.0	8.4	8.3	9.2	8.8	5.7		
						0.5	238.3	28.0		23.6		7.8		71.8		4.9		5.0		8.3		8.3			8.3	
						0.1	19.7	27.4	27.4	31.2	31.2	8.2	8.2	87.8	87.8	5.8	5.8	5.8	5.8	2.7	2.8	2.7	2.8			
F1	Cloudy	Moderate	17:08	20.0	S	0.1	19.7	27.4	27.4	31.2	31.2	8.2	8.2	87.8	87.8	5.8	5.8	5.8	5.8	2.8	2.8	2.5	3.0	11.9		
						0.1	19.7	27.4		31.2		8.2		87.8		5.8		5.8		2.8		2.8			3.5	
						0.3	3.3	27.5	27.5	31.2	31.2	8.2	8.2	87.8	87.7	5.8	5.8	5.8	5.8	2.6	2.6	2.5	2.6		3.6	3.1
						0.3	3.3	27.5		31.2		8.2		87.7		5.8		5.8		2.6		2.6			2.6	
						0.3	204.1	27.5	27.5	31.6	31.6	8.2	8.2	82.6	82.7	5.5	5.5	5.5	5.5	26.6	26.2	26.6	26.2		30.0	29.5
						0.3	83.5	27.5		31.6		8.2		82.7		5.5		5.5		25.8		25.8			29.0	
F2	Cloudy	Moderate	16:33	19.0	S	0.1	276.1	27.5	27.5	30.6	30.6	8.1	8.1	90.1	90.1	6.0	6.0	6.0	6.0	1.8	1.8	2.3	2.8	11.4		
						0.1	276.1	27.5		30.6		8.1		90.1		6.0		6.0		1.8		1.8			3.3	
						0.1	233.5	27.5	27.5	31.0	31.0	8.2	8.2	88.8	88.8	5.9	5.9	5.9	5.9	2.7	2.6	2.7	2.6		4.8	4.3
						0.2	84.5	27.5		31.0		8.2		88.9		5.9		5.9		2.6		2.6			3.8	
						0.3	111.0	27.6	27.6	31.6	31.6	8.2	8.2	85.6	85.5	5.7	5.7	5.7	5.7	19.6	19.4	19.6	19.4		25.7	27.2
						0.3	111.0	27.6		31.6		8.2		85.4		5.7		5.7		19.3		19.3			28.7	

Water Quality Monitoring Data Log Sheet

Date: 2019/09/04

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
F3	Cloudy	Moderate	15:05	17.6	S	0.6	268.9	27.4	27.4	29.6	29.7	8.1	8.1	88.4	88.4	5.9	5.9	5.8	2.5	2.5	7.1	2.7	8.8
						0.6	268.9	27.4	27.4	29.7	29.7	8.1	8.1	88.4	88.4	5.9	5.9	5.8	2.5	2.5	7.1	2.7	
						0.2	61.6	27.7	27.7	31.6	31.6	8.2	8.2	86.9	86.9	5.7	5.7	5.5	4.3	4.2	7.1	4.4	
					M	0.3	62.8	27.7	27.7	31.6	31.6	8.2	8.2	87.0	87.0	5.7	5.7	5.5	4.1	4.2	7.1	5.0	
						0.5	157.6	27.8	27.8	31.7	31.7	8.2	8.2	84.1	84.1	5.5	5.5	5.5	14.6	14.7	7.1	20.1	
						0.2	115.5	27.8	27.8	31.7	31.7	8.2	8.2	84.0	84.0	5.5	5.5	5.5	14.9	14.7	7.1	18.1	
F4	Cloudy	Rough	17:07	13.0	S	0.1	104.0	27.4	27.4	29.3	29.3	8.1	8.1	89.8	89.8	6.0	6.0	5.9	1.6	1.6	8.0	5.3	8.4
						0.1	109.0	27.4	27.4	29.3	29.3	8.1	8.1	89.8	89.8	6.0	6.0	5.9	1.6	1.6	8.0	5.3	
						0.3	92.0	27.5	27.5	29.7	29.7	8.1	8.1	86.2	86.3	5.8	5.8	5.8	4.9	4.9	8.0	8.0	
					M	0.3	101.0	27.5	27.5	29.7	29.7	8.1	8.1	86.3	86.3	5.8	5.8	5.8	4.9	4.9	8.0	9.2	
						0.2	84.0	27.2	27.3	30.1	30.1	8.1	8.1	85.0	85.1	5.7	5.7	5.7	17.6	17.6	8.0	12.1	
						0.2	90.0	27.3	27.3	30.1	30.1	8.1	8.1	85.2	85.1	5.7	5.7	5.7	17.5	17.6	8.0	10.4	
F5	Cloudy	Moderate	14:29	6.9	S	0.0	305.0	28.0	28.0	24.6	24.6	8.0	8.0	85.8	85.8	5.9	5.9	5.7	3.1	3.1	4.6	3.6	5.6
						0.0	310.0	28.0	28.0	24.6	24.6	8.0	8.0	85.8	85.8	5.9	5.9	5.7	3.2	3.1	4.6	3.6	
						0.2	67.0	27.5	27.5	26.6	26.6	8.1	8.1	81.0	81.0	5.5	5.5	5.5	4.1	4.0	4.6	5.0	
					M	0.2	67.0	27.5	27.5	26.6	26.6	8.1	8.1	80.9	80.9	5.5	5.5	5.5	4.0	4.0	4.6	4.4	
						0.0	34.0	27.3	27.3	29.0	29.0	8.1	8.1	79.3	79.3	5.3	5.3	5.3	6.5	6.5	4.6	9.1	
						0.0	35.0	27.3	27.3	29.0	29.0	8.1	8.1	79.3	79.3	5.4	5.3	5.3	6.6	6.5	4.6	8.1	
F6	Cloudy	Calm	16:37	14.0	S	1.4	157.1	28.2	28.2	22.1	22.1	8.0	8.0	79.1	79.6	5.5	5.5	5.3	4.4	4.0	18.4	5.0	26.5
						1.2	197.9	28.2	28.2	22.1	22.1	8.0	8.0	80.2	79.6	5.5	5.5	5.3	3.7	4.0	18.4	5.7	
						0.6	101.2	27.8	27.8	25.5	25.5	8.0	8.0	75.3	75.2	5.1	5.1	5.1	15.0	15.1	18.4	18.2	
					M	1.0	101.1	27.8	27.8	25.5	25.5	8.0	8.0	75.2	75.2	5.1	5.1	5.1	15.2	15.1	18.4	16.7	
						0.5	99.0	27.9	27.9	25.9	25.9	8.1	8.1	80.7	80.7	5.5	5.5	5.5	34.6	36.2	18.4	59.3	
						0.1	326.6	27.9	27.9	25.9	25.9	8.1	8.1	80.8	80.7	5.5	5.5	5.5	37.8	36.2	18.4	54.3	
IM1	Cloudy	Moderate	17:28	9.7	S	0.5	315.5	27.5	27.5	31.1	31.1	8.2	8.2	86.1	86.1	5.7	5.7	5.7	3.9	4.2	8.9	4.7	12.3
						0.5	315.5	27.5	27.5	31.1	31.1	8.2	8.2	86.1	86.1	5.7	5.7	5.7	4.5	4.2	8.9	5.7	
						0.1	183.0	27.5	27.5	31.2	31.2	8.2	8.2	84.6	84.6	5.6	5.6	5.6	4.4	4.3	8.9	4.9	
					M	0.1	130.9	27.5	27.5	31.2	31.2	8.2	8.2	84.7	84.7	5.6	5.6	5.6	4.2	4.3	8.9	5.9	
						0.2	127.3	27.2	27.2	31.3	31.3	8.2	8.2	80.3	80.1	5.4	5.3	5.3	20.1	18.1	9.9	26.5	
						0.2	127.3	27.2	27.2	31.3	31.3	8.2	8.2	79.8	80.1	5.3	5.3	5.3	16.1	18.1	9.9	26.1	
IM2	Cloudy	Moderate	17:51	11.3	S	0.4	200.0	27.1	27.1	29.4	29.4	8.1	8.1	83.2	83.1	5.6	5.6	5.5	3.0	3.0	6.9	3.1	8.6
						0.4	200.0	27.1	27.1	29.4	29.4	8.1	8.1	83.0	83.1	5.6	5.6	5.5	3.0	3.0	6.9	2.1	
						0.4	190.5	27.3	27.3	30.1	30.1	8.1	8.1	81.2	81.3	5.4	5.5	5.5	4.5	4.4	6.9	3.0	
					M	0.3	222.4	27.3	27.3	30.1	30.1	8.1	8.1	81.4	81.3	5.5	5.5	5.5	4.4	4.4	6.9	3.9	
						0.2	106.2	27.2	27.2	31.3	31.3	8.2	8.2	75.8	75.4	5.1	5.0	5.0	13.1	13.4	9.9	21.1	
						0.2	102.4	27.2	27.2	31.3	31.3	8.2	8.2	75.0	75.4	5.0	5.0	5.0	13.6	13.4	9.9	18.6	
IM3	Cloudy	Moderate	16:09	15.0	S	0.1	32.5	27.3	27.3	29.0	29.0	8.0	8.0	85.8	85.9	5.8	5.8	5.6	4.0	3.9	9.9	5.1	12.1
						0.1	32.5	27.3	27.3	29.0	29.0	8.0	8.0	86.0	85.9	5.8	5.8	5.6	3.9	3.9	9.9	4.1	
						0.2	84.9	27.2	27.2	30.4	30.4	8.1	8.1	79.7	79.6	5.3	5.3	5.3	5.9	5.8	9.9	9.1	
					M	0.0	128.0	27.2	27.2	30.3	30.4	8.1	8.1	79.4	79.4	5.3	5.3	5.3	5.8	5.8	9.9	8.2	
						0.2	22.5	27.4	27.4	31.4	31.4	8.2	8.2	82.6	82.5	5.5	5.5	5.5	19.2	19.9	9.9	21.5	
						0.1	51.3	27.4	27.4	31.4	31.4	8.2	8.2	82.3	82.5	5.5	5.5	5.5	20.5	19.9	9.9	24.8	
IM4	Cloudy	Moderate	15:46	16.5	S	0.2	176.9	27.3	27.3	29.0	29.0	8.0	8.0	86.5	86.5	5.8	5.8	5.8	3.7	3.7	5.0	2.9	5.2
						0.2	176.9	27.3	27.3	29.0	29.0	8.0	8.0	86.6	86.5	5.8	5.8	5.8	3.6	3.7	5.0	3.9	
						0.1	174.6	27.4	27.4	30.7	30.7	8.2	8.2	85.5	85.4	5.7	5.7	5.7	4.0	4.0	5.0	2.5	
					M	0.5	181.4	27.4	27.4	30.7	30.7	8.2	8.2	85.3	85.4	5.7	5.7	5.7	3.9	4.0	5.0	3.5	
						0.3	63.8	27.4	27.4	31.2	31.1	8.2	8.2	85.0	85.0	5.7	5.6	5.6	7.8	7.3	5.0	13.3	
						0.4	100.9	27.4	27.4	31.1	31.1	8.2	8.2	85.0	85.0	5.6	5.6	5.6	6.8	7.3	5.0	5.2	
IM5	Cloudy	Moderate	15:26	15.7	S	0.2	259.6	27.3	27.3	29.0	29.0	8.0	8.0	86.7	86.6	5.8	5.8	5.9	2.9	2.9	8.2	1.3	13.4
						0.2	259.6	27.3	27.3	29.1	29.0	8.0	8.0	86.5	86.6	5.8	5.8	5.9	2.9	2.9	8.2	2.1	
						0.3	165.6	27.8	27.8	31.6	31.6	8.3	8.3	89.4	89.6	5.9	5.9	5.9	3.8	3.7	8.2	3.4	
					M	0.3	302.4	27.8	27.8	31.6	31.6	8.3	8.3	89.7	89.6	5.9	5.9	5.9	3.6	3.7	8.2	2.4	
						0.1	132.4	27.5	27.5	31.6	31.6	8.2	8.2	83.2	83.2	5.5	5.5	5.5	17.6	18.1	8.2	35.2	
						0.3	104.1	27.5	27.5	31.6	31.6	8.2	8.2	83.1	83.2	5.5	5.5	5.5	18.6	18.1	8.2	36.1	

Water Quality Monitoring Data Log Sheet

Date: 2019/09/04

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
IM15	Cloudy	Calm	17:28	6.0	S	0.9	238.2	28.3	28.3	21.7	21.7	8.0	8.0	84.1	84.1	5.8	5.8	5.8	5.8	3.3	3.3	2.8	2.4					
						0.6	191.7	28.3	28.3	21.7	21.7	8.0	8.0	84.2	84.1	5.8	5.8	5.8	5.8	3.3	3.3	2.0	2.4					
					M	1.1	231.0	28.3	28.3	22.5	22.7	8.1	8.1	84.4	84.5	5.8	5.8	5.8	5.8	4.3	3.9	2.6	3.1					
						1.0	181.9	28.3	28.3	23.0	22.7	8.1	8.1	84.6	84.5	5.8	5.8	5.8	5.8	3.5	3.9	3.6	3.1					
					B	0.2	214.3	27.7	27.7	27.3	27.3	8.1	8.1	80.6	79.8	5.5	5.4	5.4	5.4	16.4	17.0	14.6	14.4					
						0.2	148.3	27.7	27.7	27.3	27.3	8.1	8.1	79.0	79.8	5.3	5.4	5.4	5.4	17.6	17.0	14.2	14.4					
IM16A	Cloudy	Calm	17:00	7.0	S	1.2	149.8	28.2	28.2	23.7	23.7	8.0	8.0	82.5	82.7	5.6	5.7	5.6	5.6	5.0	4.9	6.1	6.6					
						0.4	188.2	28.2	28.2	23.7	23.7	8.0	8.0	82.9	82.7	5.7	5.7	5.6	5.6	4.7	4.9	7.0	6.6					
					M	0.9	147.7	28.1	28.1	25.2	25.2	8.1	8.1	81.3	81.3	5.5	5.5	5.5	5.5	6.5	6.5	8.5	8.3					
						0.3	135.3	28.1	28.1	25.2	25.2	8.1	8.1	81.3	81.3	5.5	5.5	5.5	5.5	6.4	6.5	8.0	8.3					
					B	0.2	3.9	27.8	27.8	26.7	26.7	8.1	8.1	80.8	79.5	5.5	5.4	5.4	5.4	12.9	14.1	18.7	17.6					
						0.4	124.8	27.8	27.8	26.7	26.7	8.1	8.1	78.3	79.5	5.3	5.4	5.4	5.4	15.2	14.1	16.5	17.6					
IM17	Cloudy	Calm	16:01	5.5	S	0.4	241.8	28.1	28.1	21.6	21.6	7.9	7.9	76.1	76.0	5.3	5.3	5.3	5.3	8.1	7.6	7.9	8.4					
						0.7	188.2	28.1	28.1	21.6	21.6	7.9	7.9	75.8	76.0	5.3	5.3	5.3	5.3	7.2	7.6	8.8	8.4					
					B	0.7	174.5	27.9	27.9	24.0	24.0	8.0	8.0	79.5	78.8	5.5	5.4	5.4	5.4	15.8	16.5	25.7	25.8					
						0.5	146.9	27.9	27.9	24.0	24.0	8.0	8.0	78.2	78.8	5.4	5.4	5.4	5.4	17.1	16.5	25.9	25.8					
					IM18	Cloudy	Calm	16:12	17.5	S	0.6	199.2	28.4	28.4	20.9	20.9	7.9	7.9	75.7	76.3	5.2	5.3	5.0	5.0	7.1	6.9	4.9	5.4
											0.9	202.8	28.4	28.4	20.9	20.9	7.9	7.9	76.9	76.3	5.3	5.3	5.3	5.3	6.6	6.9	5.9	5.4
M	0.5	97.9	27.7	27.7						24.3	24.3	7.9	7.9	67.8	67.8	4.7	4.7	4.7	4.7	10.2	10.2	10.3	13.4					
	0.6	161.2	27.7	27.7						24.3	24.3	7.9	7.9	67.8	67.8	4.7	4.7	4.7	4.7	10.1	10.2	12.5	13.4					
B	0.4	132.3	27.3	27.3						26.5	26.5	8.0	8.0	67.6	67.1	4.6	4.6	4.6	4.6	12.1	11.9	16.3	17.0					
	0.4	100.6	27.3	27.3						26.5	26.5	8.0	8.0	66.6	67.1	4.6	4.6	4.6	4.6	11.7	11.9	17.7	17.0					
IM19	Cloudy	Calm	15:44	17.5	S	0.4	98.6	28.5	28.8	22.7	22.5	7.9	7.9	72.3	74.1	5.0	5.0	5.0	5.0	8.8	9.1	14.8	14.2					
						0.4	98.6	29.1	28.8	22.2	22.5	7.9	7.9	75.8	74.1	5.1	5.0	5.0	5.0	9.4	9.1	13.5	14.2					
					M	0.4	145.7	27.7	27.7	24.8	24.8	8.0	8.0	73.1	73.3	5.0	5.0	5.0	5.0	5.4	5.5	7.7	8.1					
						0.1	113.6	27.7	27.7	24.8	24.8	8.0	8.0	73.5	73.3	5.0	5.0	5.0	5.0	5.5	5.5	8.5	8.1					
					B	0.6	191.8	27.4	27.4	26.3	26.3	8.0	8.0	69.3	68.2	4.7	4.7	4.7	4.7	11.0	12.0	17.3	20.2					
						0.2	179.0	27.4	27.4	26.3	26.3	8.0	8.0	67.1	68.2	4.6	4.7	4.7	4.7	13.1	12.0	23.1	20.2					
IM20A	Cloudy	Calm	14:37	4.5	S	0.4	102.2	28.5	28.6	18.8	18.5	7.8	7.8	72.5	73.8	5.1	5.2	5.2	5.2	7.8	7.2	9.6	9.1					
						0.4	102.2	28.7	28.6	18.3	18.5	7.8	7.8	75.1	73.8	5.2	5.2	5.2	5.2	6.6	7.2	8.6	9.1					
					B	1.0	132.0	28.0	28.0	22.8	22.9	7.8	7.8	72.9	71.0	5.0	4.9	4.9	4.9	10.5	11.0	11.8	12.7					
						1.0	282.1	27.9	28.0	23.0	22.9	7.8	7.8	69.2	71.0	4.8	4.9	4.9	4.9	11.5	11.0	13.5	12.7					
					IM21A	Cloudy	Calm	14:46	5.5	S	1.2	81.5	28.0	28.1	22.6	22.3	7.8	7.8	68.5	69.0	4.7	4.8	4.8	4.8	16.9	17.0	28.8	26.9
											1.2	81.5	28.2	28.1	22.0	22.3	7.8	7.8	69.5	69.0	4.8	4.8	4.8	4.8	17.2	17.0	25.0	26.9
B	0.4	140.2	27.9	27.9						23.5	23.5	7.8	7.8	70.6	69.6	4.9	4.8	4.8	4.8	19.2	20.1	26.2	24.8					
	0.7	198.9	27.9	27.9						23.6	23.5	7.8	7.8	68.7	69.6	4.7	4.8	4.8	4.8	21.1	20.1	23.4	24.8					
IM22A	Cloudy	Calm	14:56	4.5						S	0.3	95.4	29.2	29.2	23.2	23.2	7.9	7.9	76.0	76.1	5.1	5.1	5.1	5.1	15.0	14.6	18.1	17.7
											0.3	95.4	29.2	29.2	23.2	23.2	7.9	7.9	76.3	76.1	5.1	5.1	5.1	5.1	14.3	14.6	17.2	17.7
					B	0.2	36.8	28.4	28.4	23.8	23.9	7.9	7.9	74.3	73.4	5.1	5.0	5.0	5.0	17.9	18.0	20.8	19.4					
						0.7	264.1	28.4	28.4	23.9	23.9	7.9	7.9	72.5	73.4	4.9	5.0	5.0	5.0	18.0	18.0	18.0	19.4					

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/04

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)										
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*								
E1	Rainy	Moderate	07:36	8.8	S	0.6	257.7	26.8	26.8	27.9	27.9	7.8	7.8	75.3	75.2	5.2	5.1	5.0	4.2	4.2	7.7	4.6	5.1	7.9								
						0.6	257.7	26.8	28.0	7.8		75.1		5.1		4.2																
						M	0.3	193.9	26.8	26.8	28.9	28.8	7.8	7.8	72.1	72.1	4.9	4.9	5.8	5.8		4.2	4.2		4.6	5.1						
							0.3	193.9	26.8	28.8	7.8		72.0		4.9		5.8															
							B	0.4	200.5	27.1	27.1		30.7		30.8		7.9		7.9			75.4			75.1		5.1	5.0	12.7	13.2	10.6	11.0
								0.4	200.5	27.1	30.8		7.9				74.8					5.0					13.7					
E2	Cloudy	Moderate	08:06	8.4	S	0.2	267.0	27.0	27.0	29.4	29.4	8.0	8.0	87.2	87.2	5.9	5.9	5.8	1.9	1.9	5.5	1.5	2.0	5.1								
						0.2	276.0	27.0	29.4	8.0		87.1		5.9		1.9																
						M	0.1	288.0	27.0	27.0	29.6	29.6	8.0	8.0	85.6	85.6	5.8		5.8	2.9		2.9	3.2		3.7							
							0.1	303.0	27.0	29.6	8.0		85.5		5.8		2.9															
							B	0.1	317.0	27.1	27.1		29.9		29.9		8.0			8.0			83.1			83.1	5.6	5.6	11.5	11.7	9.6	9.8
								0.1	336.0	27.1	29.9		8.0				83.1						5.6				12.0					
					E3	Rainy	Moderate	09:34	16.6	S	0.3	332.0	27.5	27.5	26.2	26.2	8.0	8.0	85.1	85.1		5.8	5.8		5.7	2.9	2.9	9.4	4.3	3.9	7.9	
											0.3	344.0	27.5	26.2	8.0		85.1		5.8			2.9										
											M	0.4	302.0	27.4	27.4	28.4	28.4	8.1	8.1	82.9		83.0	5.6			5.6	3.8		3.8	4.1		3.6
										0.4		317.0	27.4	28.4	8.1	83.0		5.6		3.8												
										B		0.7	284.0	27.3	27.3	30.1		30.1		8.1			8.1				82.2			82.2		
											0.7	306.0	27.3	30.1	8.1	82.2	5.5		21.4													
E4	Cloudy	Rough	10:52	12.0	S	0.2	54.0	27.9	27.9		22.0	22.0	8.0	8.0	80.7	80.7	5.6		5.6	5.6	3.5	3.4		11.0	4.7	4.3	10.5					
						0.2	55.0	27.9	22.0	8.0	80.7		5.6		3.4																	
						M	0.4	30.0	27.6	27.6	25.6	25.6	8.0	8.0	81.0	81.0	5.5	5.5	7.4		7.5	6.4	6.9									
					0.4		32.0	27.6	25.6	8.0	81.0		5.5		7.5																	
					B		0.4	23.0	27.2	27.2	29.6		29.6		8.1		8.1		81.4			81.4			5.5	5.5		22.1	22.1	19.8	20.4	
						0.4	25.0	27.2	29.6	8.1	81.4	5.5		22.1																		
E5	Cloudy	Calm	08:09	5.5		S	1.0	248.7	28.1	28.1	18.5	18.4		7.8	7.8	70.3		70.1	5.0	4.9	4.9		7.8	7.7	11.9		8.0	8.0		13.5		
					1.1		215.5	28.1	18.3	7.8	69.9		4.9	7.6																		
					B		0.9	7.7	27.9	27.9	24.0	24.1	7.9	7.9	76.1	76.2	5.2	5.2	15.2	16.1		18.1	19.0									
						1.1	271.4	27.9	24.2	7.9	76.3		5.2		17.1																	
						E6	Cloudy	Calm	10:25	5.5	S		0.9		347.1		28.3		28.3			19.3		19.1		7.7	7.7	64.8	64.7		4.5	4.5
					0.9							347.1	28.3	18.9	7.7	64.7	4.5	6.9														
B	1.0	5.3	27.8	27.8	24.1							24.1	7.8	7.8	66.6	65.6	4.6	4.5	42.8	45.8	60.1	61.0										
	0.6	347.9	27.8	24.1	7.8						64.5		4.4		48.9																	
	E7A	Cloudy	Calm	11:19	5.0						S		0.6		168.1		28.3		28.3		19.5		19.5	7.8	7.8	70.3	70.3	4.9	4.9	4.9	7.2	6.8
0.6												168.1	28.3	19.6	7.8	70.4	4.9	6.5														
B						0.1	109.9	27.9	27.9	23.0		23.0	7.8	7.8	68.4	67.3	4.7	4.7	45.2	46.9	85.0	81.9										
						0.2	49.1	27.9	23.0	7.8	66.3		4.6		48.6																	
						F1	Rainy	Moderate	08:31	19.8	S		0.3		286.0		26.9		26.9		29.3		29.3	7.8	7.8	82.0	81.9	5.6	5.6		5.8	4.0
0.3												286.0	26.9	29.3	7.8	81.8	5.6	4.0														
M	0.2	10.1	27.3	27.3	31.1							31.1	8.0	8.0	89.6	89.5	6.0	6.0	2.2	2.3												
	0.2	10.1	27.3	31.0	8.0						89.5		6.0		2.3																	
	B	0.1	294.4	27.4	27.4						31.5		31.5		8.0		8.0		86.5		86.5	5.7	5.7	12.5	12.2	14.4	15.5					
0.4		343.6	27.4	31.5	8.0						86.4	5.7		11.9																		
F2		Rainy	Moderate	09:00	19.3	S	0.2	279.0	27.0	27.0	29.3	29.3		7.9	7.9	86.5		86.3	5.9	5.8		6.0		3.0		3.0		6.1	1.4	1.8	5.6	
	0.2						279.0	27.0	29.4	7.9	86.2		5.8	3.0																		
	M						0.3	72.9	27.4	27.4	30.9	30.9	8.0	8.0	91.8	92.0	6.1	6.1	2.2	1.9												
						0.4	339.8	27.4	30.9	8.0	92.2		6.1		1.7																	
						B	0.4	288.0	27.6	27.6	31.6		31.6		8.1		8.1		90.1		90.1		6.0	6.0	13.0	13.4	12.7		13.7			
	0.4						288.0	27.6	31.6	8.1	90.0	6.0		13.9																		

Water Quality Monitoring Data Log Sheet

Date: 2019/09/04

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
F3	Rainy	Moderate	10:24	17.5	S	0.1	286.5	27.2	27.2	29.8	29.9	7.9	7.9	92.6	92.6	6.2	6.2	6.2	2.5	2.4	6.4	2.2	2.2	7.7
						0.1	286.5	27.2	29.9	7.9		92.7		6.2		2.3								
						0.3	233.4	27.8	31.7	8.1		93.1		6.1		3.6								
					M	0.2	327.9	27.8	31.7	8.1	93.2	6.1	3.6	6.0	6.0	6.0	12.9	13.1	6.0	7.0	6.9			
						0.2	241.6	27.7	31.7	8.0	90.3	6.0	6.8											
						0.4	247.3	27.7	31.7	8.0	90.0	5.9	15.0											
B	0.5	260.0	27.2	29.8	8.1	86.0	5.8	5.3	29.8	8.1	8.1	86.0	86.0	5.8	5.8	5.4	12.2	11.7						
	0.5	284.0	27.2	29.8	8.1	86.0	5.8	5.4																
	0.4	273.0	27.2	29.9	8.1	85.5	5.8	4.6																
F4	Cloudy	Rough	08:38	12.6	S	0.4	287.0	27.2	27.2	29.9	29.9	8.1	8.1	85.5	85.5	5.8	5.8	5.8	4.6	4.6	9.3	9.1	8.9	10.0
						0.4	287.0	27.2	29.9	8.1		85.5		5.8		4.6								
						0.3	280.0	27.2	30.2	8.1		83.4		5.6		18.1								
					M	0.4	289.0	27.2	30.2	8.1	83.5	5.6	17.7	30.2	8.1	8.1	83.5	83.5	5.6	5.6	5.6	17.9	9.5	
						0.3	280.0	27.2	30.2	8.1	83.4	5.6	18.1											
						0.4	289.0	27.2	30.2	8.1	83.5	5.6	17.7											
F5	Rainy	Rough	11:20	6.5	S	0.6	22.0	27.7	27.7	24.5	24.5	8.0	8.0	82.5	82.5	5.7	5.7	5.5	4.6	4.6	21.6	5.6	5.3	15.5
						0.6	23.0	27.7	24.5	8.0		82.5		5.7		5.0								
						0.5	27.0	27.5	26.3	8.0		79.3		5.4		17.8								
					M	0.6	29.0	27.5	26.3	8.0	79.3	5.4	22.2	26.3	8.0	8.0	79.3	79.3	5.4	5.4	5.4	22.0	18.0	
						0.3	21.0	27.5	26.8	8.0	79.2	5.4	24.8											
						0.3	22.0	27.5	26.8	8.0	79.3	5.4	21.5											
F6	Cloudy	Calm	08:47	13.5	S	0.9	36.7	28.3	28.3	18.9	18.9	7.7	7.7	73.2	73.4	5.1	5.1	4.9	5.5	5.4	26.6	6.6	7.1	30.3
						0.9	36.7	28.3	18.8	7.7		73.6		5.2		5.3								
						0.4	270.3	27.7	24.4	7.8		68.2		4.7		12.2								
					M	0.1	242.4	27.7	24.4	7.8	68.3	4.7	12.0	24.4	7.8	7.8	68.3	68.3	4.7	4.7	4.9	12.1	12.3	
						0.2	249.1	27.5	25.5	7.8	66.4	4.6	76.8											
						0.4	209.2	27.5	25.6	7.8	66.0	4.5	66.1											
IM1	Rainy	Moderate	08:11	9.6	S	0.1	311.7	27.4	27.4	30.7	30.7	7.9	7.9	86.2	86.1	5.7	5.7	5.7	3.7	3.7	5.5	3.5	3.6	6.6
						0.1	311.7	27.4	30.7	7.9		86.0		5.7		3.7								
						0.1	166.1	27.3	31.0	8.0		84.3		5.6		4.0								
					M	0.4	339.4	27.3	31.0	8.0	84.1	5.6	3.8	31.0	8.0	8.0	84.1	84.2	5.6	5.6	5.6	3.9	4.5	
						0.4	285.9	27.3	31.3	8.0	83.8	5.5	8.5											
						0.4	285.9	27.3	31.3	8.0	83.3	5.5	9.2											
IM2	Rainy	Moderate	07:49	11.3	S	0.3	238.3	26.7	26.7	28.5	28.5	7.8	7.8	75.1	75.1	5.1	5.1	5.1	4.7	4.8	10.2	6.0	6.1	11.1
						0.3	238.3	26.7	28.5	7.8		75.2		5.1		4.8								
						0.3	197.5	26.8	29.0	7.8		75.0		5.1		10.3								
					M	0.3	197.5	26.8	29.1	7.8	74.8	5.1	10.2	29.1	8.0	8.0	74.8	74.9	5.1	5.1	5.3	10.3	13.2	
						0.2	242.1	27.1	31.1	8.0	79.1	5.3	15.1											
						0.2	292.9	27.1	31.2	8.0	79.5	5.3	16.1											
IM3	Rainy	Moderate	09:24	14.8	S	0.5	264.5	26.8	26.8	28.1	28.1	7.8	7.8	81.8	81.7	5.6	5.6	5.4	4.3	4.2	8.4	2.8	2.8	9.7
						0.5	264.5	26.8	28.1	7.8		81.7		5.6		2.8								
						0.4	235.8	27.1	30.3	7.9		78.9		5.3		7.7								
					M	0.4	260.1	27.1	30.1	7.9	79.1	5.3	7.0	30.1	7.9	7.9	79.1	79.0	5.3	5.3	5.3	7.4	9.1	
						0.2	265.1	27.3	31.3	8.0	84.7	5.6	18.2											
						0.3	33.8	27.3	31.3	8.0	84.6	5.6	16.0											
IM4	Rainy	Moderate	09:44	16.7	S	0.6	260.8	27.0	27.0	29.0	29.0	7.8	7.8	84.9	84.8	5.8	5.8	5.8	4.0	4.1	8.0	2.1	2.6	8.5
						0.6	260.8	27.0	28.9	7.8		84.8		5.8		3.0								
						0.4	241.3	27.3	31.1	8.0		87.5		5.8		6.8								
					M	0.4	248.1	27.2	30.6	8.0	86.5	5.8	5.9	30.6	8.1	8.1	86.5	87.0	5.8	5.8	5.8	6.0	6.4	
						0.2	288.3	27.5	31.6	8.1	88.0	5.8	17.1											
						0.3	322.7	27.5	31.6	8.1	87.9	5.8	16.2											
IM5	Rainy	Moderate	10:03	15.7	S	0.3	306.8	27.1	27.1	29.5	29.5	7.8	7.8	89.1	89.0	6.0	6.0	6.0	3.5	3.5	7.5	3.4	3.5	7.9
						0.3	306.8	27.1	29.5	7.8		88.9		6.0		3.5								
						0.4	271.8	27.2	30.3	7.9		89.9		6.0		2.6								
					M	0.4	271.8	27.2	30.3	7.9	89.8	6.0	2.6	30.3	7.9	7.9	89.8	89.9	6.0	6.0	6.0	2.6	3.9	
						0.1	351.5	27.5	31.6	8.0	90.0	6.0	15.1											
						0.2	292.5	27.5	31.6	8.0	89.8	5.9	17.4											

Water Quality Monitoring Data Log Sheet

Date: 2019/09/04

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
IM15	Cloudy	Calm	07:55	5.5	S	1.0	266.1	28.0	28.0	22.3	22.3	7.8	7.8	75.5	75.5	5.2	5.2	5.2	14.4	14.1	17.0	17.5	16.4	21.1	
						1.0	266.0	28.0	28.0	22.3	22.3	7.8	7.8	75.4	75.4	5.2	5.2	5.2	13.9	14.1					
					B	0.6	237.8	27.9	27.9	24.2	24.1	7.7	7.8	76.8	76.5	5.3	5.2	5.2	19.5	20.0		19.5			20.0
						0.8	242.0	27.9	27.9	24.0	24.1	7.8	7.8	76.2	76.5	5.2	5.2	5.2	20.4	20.0		20.4			20.0
IM16A	Cloudy	Calm	08:23	6.5	S	0.3	201.9	28.1	28.1	19.1	19.4	7.8	7.8	72.1	72.0	5.1	5.0	4.9	11.9	11.6	11.9	11.9	16.6	15.2	
						0.6	134.5	28.1	28.1	19.7	21.0	7.8	7.8	71.8	72.0	5.0	4.9	4.9	11.3	11.5					
					M	0.3	291.6	28.0	27.9	21.0	21.2	7.8	7.8	68.5	68.3	4.8	4.8	4.8	11.3	11.5		11.3			11.5
						0.2	259.3	27.9	27.9	21.4	21.2	7.8	7.8	68.1	68.3	4.7	4.8	4.8	11.8	11.5		11.8			11.5
					B	0.6	262.2	27.9	27.9	22.2	22.2	7.8	7.8	70.9	70.0	4.9	4.9	4.9	12.9	12.7		12.9			12.7
						0.7	248.9	27.9	27.9	22.2	22.2	7.8	7.8	69.1	70.0	4.8	4.9	4.9	12.5	12.7		12.5			12.7
IM17	Cloudy	Calm	09:37	4.5	S	0.9	278.7	28.4	28.4	15.7	15.6	7.7	7.7	67.0	67.4	4.8	4.8	4.8	7.0	6.7	8.7	8.0	8.5	11.3	
						0.9	278.7	28.4	28.4	15.5	15.6	7.7	7.7	67.8	67.4	4.8	4.8	4.8	6.4	6.7					
					B	0.6	295.0	28.2	28.2	18.3	18.1	7.7	7.7	64.9	64.5	4.6	4.6	4.6	11.5	10.7		11.5			10.7
						0.4	335.1	28.3	28.2	17.9	18.1	7.7	7.7	64.2	64.5	4.5	4.6	4.6	10.0	10.7		10.0			10.7
IM18	Cloudy	Calm	09:24	16.5	S	0.6	292.0	28.4	28.4	16.7	16.6	7.7	7.7	64.7	64.9	4.6	4.6	4.5	7.4	7.1	31.1	9.1	8.6	27.9	
						0.6	292.0	28.4	28.4	16.4	16.6	7.7	7.7	65.1	64.9	4.6	4.6	4.5	6.9	7.1					
					M	0.3	292.2	27.8	27.8	24.6	24.5	7.8	7.8	65.1	65.1	4.5	4.5	4.5	15.3	15.2		15.3			15.2
						0.2	80.6	27.8	27.8	24.3	24.5	7.8	7.8	65.1	65.1	4.5	4.5	4.5	15.1	15.2		15.1			15.2
					B	0.9	325.5	27.6	27.6	25.5	25.5	7.8	7.8	65.2	65.1	4.5	4.5	4.5	67.9	71.1		67.9			71.1
						0.7	334.3	27.6	27.6	25.5	25.5	7.9	7.8	65.1	65.1	4.5	4.5	4.5	74.3	71.1		74.3			71.1
IM19	Cloudy	Calm	10:04	17.0	S	0.2	347.6	28.4	28.4	16.8	16.8	7.7	7.7	68.3	67.9	4.8	4.8	4.8	5.9	5.8	21.9	7.8	8.1	34.6	
						0.5	354.0	28.4	28.4	16.8	16.8	7.7	7.7	67.6	67.9	4.8	4.8	4.8	5.6	5.8					
					M	1.4	13.9	28.1	28.0	23.7	23.9	7.8	7.8	70.9	70.8	4.9	4.9	4.9	7.9	7.4		7.9			7.4
						0.4	4.3	28.0	28.0	24.1	23.9	7.8	7.8	70.8	70.8	4.9	4.9	4.9	7.0	7.4		7.0			7.4
					B	0.8	346.8	27.5	27.5	25.7	25.7	7.8	7.8	65.4	65.4	4.5	4.5	4.5	53.8	52.6		53.8			52.6
						1.0	22.4	27.5	27.5	25.7	25.7	7.8	7.8	65.4	65.4	4.5	4.5	4.5	51.4	52.6		51.4			52.6
IM20A	Cloudy	Calm	11:05	4.5	S	0.4	96.2	29.0	29.1	17.2	17.3	7.7	7.7	74.8	75.5	5.2	5.3	5.3	11.6	12.0	14.5	9.9	9.4	15.7	
						0.9	26.7	29.2	29.1	17.5	17.3	7.7	7.7	76.3	75.5	5.3	5.3	5.3	12.4	12.0					
					B	0.2	316.5	28.1	28.1	21.2	21.3	7.7	7.7	70.6	70.0	4.9	4.9	4.9	16.1	17.1		16.1			17.1
						0.7	306.2	28.1	28.1	21.5	21.3	7.7	7.7	69.4	70.0	4.8	4.9	4.9	18.1	17.1		18.1			17.1
IM21A	Cloudy	Calm	10:56	4.0	S	0.8	192.2	29.7	29.7	18.9	18.9	7.7	7.7	78.9	79.0	5.4	5.4	5.4	27.9	28.4	28.9	35.8	38.2	40.1	
						0.2	202.0	29.7	29.7	18.9	18.9	7.7	7.7	79.2	79.0	5.4	5.4	5.4	28.8	28.4					
					B	0.2	179.7	29.6	29.7	19.2	19.1	7.7	7.7	79.6	79.2	5.5	5.4	5.4	29.0	29.5		29.0			29.5
						0.8	27.8	29.7	29.7	19.1	19.1	7.7	7.7	78.7	79.2	5.4	5.4	5.4	30.0	29.5		30.0			29.5
IM22A	Cloudy	Calm	10:50	4.5	S	0.5	233.0	28.4	28.4	17.1	17.2	7.7	7.7	70.8	70.7	5.0	5.0	5.0	7.7	7.0	30.5	11.2	11.8	47.7	
						0.5	233.0	28.4	28.4	17.2	17.2	7.7	7.7	70.5	70.7	5.0	5.0	5.0	6.3	7.0					
					B	0.4	56.4	28.0	28.0	22.5	22.4	7.8	7.8	68.5	68.3	4.7	4.7	4.7	57.7	53.9		57.7			53.9
						0.4	56.4	28.0	28.0	22.4	22.4	7.8	7.8	68.1	68.3	4.7	4.7	4.7	50.1	53.9		50.1			53.9

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; S: 1 m above the seabed

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2019/09/06

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)									
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*						
IM6	Fine	Calm	04:59	16.5	S	0.2	170.6	27.6	27.6	30.3	30.2	8.0	8.0	84.6	84.6	5.6	5.6	5.6	5.6	5.6	2.4	2.4	5.9	3.2	3.3	7.1				
						0.2	170.6	27.6		30.2		8.0		84.5		5.6		2.3												
						0.3	232.1	27.6	31.3	31.3	8.1	8.1	83.7	83.9	5.5	5.6	3.6	3.3	4.1	4.3										
					M	0.0	148.7	27.6	31.3	27.6	31.4	31.4	8.1	8.1	81	77.5	5.1	5.1	5.1	5.1	2.4	12.0	2.4	5.9	13.5		13.8			
						0.4	223.3	27.6	31.4		8.1		77.2		5.1		12.2		14.0											
						0.4	223.3	27.6	31.4		8.1		77.2		5.1		12.2		14.0											
IM7	Fine	Calm	04:34	13.0	S	0.2	202.7	27.4	27.4	30.1	30.2	8.0	8.0	86.2	86.3	5.8	5.8	5.8	5.7	2.4	2.4	0.5	0.5	4.9						
						0.1	189.9	27.5		30.2		8.0		86.3		5.8		2.4												
						0.2	164.6	27.6	30.7	30.7	8.1	8.1	86.1	86.1	5.7	5.7	2.3	2.3	2.2	2.3										
					M	0.2	164.6	27.6	30.7	27.6	31.2	31.2	8.1	8.1	84.7	83.8	5.6	5.5	5.5	5.5	7.3	7.7	7.3		4.1	12.1	11.9			
						1.0	129.2	27.6	31.2		8.1		82.8		5.5		8.0		11.6											
						1.0	129.2	27.6	31.2		8.1		82.8		5.5		8.0		11.6											
IM8	Fine	Calm	04:44	15.0	S	0.2	229.1	27.4	27.4	29.9	29.8	8.0	8.0	84.9	84.8	5.7	5.7	5.7	5.7	2.5	2.5	1.2	1.2	6.1						
						0.0	353.7	27.4		29.8		8.0		84.8		5.7		2.4												
						0.2	251.7	27.6	31.1	31.1	8.1	8.1	85.7	85.9	5.7	5.7	3.5	3.3	3.6	3.6										
					M	0.2	251.7	27.6	31.1	27.6	31.3	31.3	8.1	8.1	82.3	81.9	5.4	5.4	5.4	5.4	14.1	14.7	14.1		6.8	13.0	13.5			
						0.1	99.3	27.6	31.3		8.1		81.5		5.4		15.2		13.9											
						0.1	97.1	27.6	31.3		8.1		81.5		5.4		15.2		13.9											
IM9	Fine	Calm	04:15	15.0	S	0.3	131.7	27.6	27.6	30.2	30.2	8.0	8.0	84.2	84.3	5.6	5.6	5.6	5.6	6.3	6.2	7.6	7.5	10.6						
						0.3	131.7	27.6		30.2		8.0		84.4		5.6		6.0												
						0.3	135.8	27.7	31.1	31.1	8.1	8.1	84.8	84.8	5.6	5.6	8.1	7.8	9.7	9.9										
					M	0.3	135.8	27.7	31.1	27.7	31.2	31.2	8.1	8.1	84.5	84.4	5.6	5.6	5.6	5.6	10.2	10.2	14.9		8.0	14.2	14.6			
						0.3	143.7	27.7	31.2		8.1		84.3		5.6		10.2													
						0.3	143.7	27.7	31.2		8.1		84.3		5.6		10.2													
IM10	Cloudy	Calm	08:02	11.5	S	1.1	88.7	27.7	27.7	30.0	29.9	8.2	8.2	85.2	86.1	5.7	5.7	5.7	5.5	5.8	5.2	5.5	5.4	24.8						
						1.1	88.7	27.7		29.9		8.2		87.0		5.8		4.6												
						0.7	180.8	27.6	30.5	30.5	8.2	8.2	80.1	80.1	5.3	5.3	14.2	14.2	14.2	14.2										
					M	0.3	4.2	27.6	30.5	27.6	30.6	30.6	8.2	8.2	80.1	80.4	5.3	5.3	5.3	5.3	38.8	37.8	45.5		19.1	24.2	24.4			
						0.8	33.6	27.6	30.6		8.2		80.6		5.4		36.8													
						0.2	218.9	27.6	30.6		8.2		80.2		5.3		36.8													
IM11A	Cloudy	Calm	07:52	4.5	S	1.4	166.3	27.8	27.8	26.5	25.9	8.2	8.2	83.0	83.3	5.6	5.7	5.7	5.7	22.2	21.2	28.0	29.4	46.2						
						1.5	168.7	27.8		25.3		8.2		83.5		5.7		20.1												
						1.0	183.4	27.7	28.9	28.9	8.2	8.2	81.0	80.5	5.4	5.4	48.6	50.0	61.8	63.0										
					B	0.6	148.0	27.7	28.8	27.7	23.3	23.3	8.2	8.2	86.3	87.0	6.0	6.0	6.0	5.7	3.0	2.7	9.6		34.0	10.3	10.0			
						1.2	162.2	27.9	23.0		8.1		87.8		6.0		2.4													
						1.3	175.3	28.0	23.6		8.1		87.8		6.0		2.4													
IM12	Cloudy	Calm	07:42	12.5	M	0.7	146.4	27.7	27.7	28.7	28.8	8.2	8.2	80.0	80.1	5.4	5.4	5.4	5.7	19.7	18.9	22.1	21.5	44.1						
						1.5	154.8	27.7		28.8		8.2		80.2		5.4		18.1												
						1.0	151.8	27.6	30.0	30.0	8.2	8.2	79.2	79.0	5.3	5.3	76.7	80.3	98.8	100.9										
					B	0.8	108.4	27.6	30.0	27.6	30.0	30.0	8.2	8.2	78.9	79.0	5.3	5.3	5.3	5.3	84.0	80.3	103.0		13.9	40.1	39.3			
						1.1	161.6	28.1	19.5		19.2		8.1		8.1		84.6		85.1		5.9		6.0			3.2		2.8	4.2	4.1
						0.5	254.8	28.2	19.0		19.2		8.1		8.1		85.5		85.1		6.0		6.0			2.4		2.8	3.9	4.1
IM13	Cloudy	Calm	07:22	16.5	M	0.3	191.4	27.6	27.6	29.7	29.7	8.2	8.2	80.1	80.0	5.4	5.3	5.3	5.7	15.9	16.4	25.5	26.4	23.2						
						0.9	210.3	27.6		29.7		8.2		80.0		5.3		16.8												
						0.2	49.3	27.6	30.0	30.0	8.2	8.2	80.6	80.5	5.4	5.4	22.7	24.1	40.1	39.3										
					B	0.3	288.1	27.6	30.0	27.6	30.0	30.0	8.2	8.2	80.3	80.5	5.4	5.4	5.4	5.4	25.4	24.1	38.4		13.9	38.4	11.1			
						1.2	185.5	27.7	26.9		26.3		8.2		8.2		81.8		83.4		5.5		5.7			3.3		3.0	4.7	4.6
						0.7	240.7	27.6	25.8		26.3		8.2		8.2		85.0		83.4		5.8		5.7			2.6		3.0	4.4	4.6
IM14	Cloudy	Calm	07:07	10.5	M	1.4	173.8	27.6	27.6	29.7	29.7	8.2	8.2	78.8	78.8	5.3	5.3	5.3	5.5	10.3	11.2	10.9	11.1	18.5						
						1.3	202.7	27.6		29.8		8.2		78.8		5.3		12.1												
						0.9	173.0	27.6	29.8	29.8	8.2	8.2	79.4	79.2	5.3	5.3	26.7	27.6	39.4	39.9										
					B	0.6	198.8	27.6	29.8	27.6	29.8	29.8	8.2	8.2	79.0	79.2	5.3	5.3	5.3	5.3	28.5	27.6	40.4		13.9	40.4	39.9			
						0.9	173.0	27.6	29.8		29.8		8.2		8.2		79.4		79.2		5.3		5.3			26.7		27.6		
						0.6	198.8	27.6	29.8		29.8		8.2		8.2		79.0		79.2		5.3		5.3			28.5		27.6		

Water Quality Monitoring Data Log Sheet

Date: 2019/09/06

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)				
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
IM15	Cloudy	Calm	06:01	6.5	S	0.4	186.5	27.9	28.0	23.1	23.3	8.0	8.0	78.3	78.0	5.4	5.4	5.4	3.0	2.9	4.1	5.7	5.7	5.7	
						0.4	186.5	28.0	23.5	23.5	8.0	8.0	77.7	78.0	5.3	5.4	5.4	2.9	6.1						
						0.9	236.3	27.8	26.4	26.6	8.1	8.1	79.6	79.6	5.4	5.4	5.4	3.7	5.9						
					M	0.3	288.5	27.8	26.9	26.6	8.1	8.1	79.6	79.6	5.3	5.3	5.3	5.5	5.5	5.5	3.7	5.5			
						0.7	233.7	27.7	28.7	28.7	8.2	8.2	78.9	78.7	5.3	5.3	5.3	5.5	5.5	5.5	3.7	5.3			
						0.3	230.9	27.7	28.7	28.7	8.2	8.2	78.6	78.7	5.3	5.3	5.3	5.5	5.5	5.5	3.7	5.8			
IM16A	Cloudy	Calm	05:34	7.5	S	0.1	116.4	27.9	27.9	24.8	24.4	8.1	8.0	81.0	80.8	5.5	5.5	5.5	3.3	3.4	5.5	4.7	4.8	6.7	
						0.1	116.4	27.8	24.0	24.4	8.0	8.0	80.5	80.8	5.5	5.5	5.5	3.4	4.8						
						0.7	251.2	27.8	26.8	26.8	8.1	8.1	79.7	79.9	5.4	5.4	5.4	4.7	5.2						
					M	0.8	219.8	27.8	26.8	26.8	8.1	8.1	80.1	79.9	5.4	5.4	5.4	4.5	4.5	4.5	4.7	5.6			
						0.4	188.4	27.8	27.1	27.1	8.1	8.1	78.5	78.1	5.3	5.3	5.3	8.2	8.4	8.4	4.7	9.3			
						0.4	188.4	27.8	27.1	27.1	8.1	8.1	77.8	78.1	5.3	5.3	5.3	8.6	8.4	8.4	4.7	10.4			
IM17	Cloudy	Calm	04:31	5.5	S	0.5	215.9	28.1	28.1	23.6	23.6	8.0	8.0	75.8	75.5	5.2	5.2	5.2	7.9	8.1	10.0	8.7	10.5	10.5	
						0.5	180.7	28.1	23.7	23.7	8.0	8.0	75.1	75.5	5.2	5.2	5.2	8.3	8.6						
						0.2	217.1	27.9	25.1	25.1	8.0	8.0	75.7	75.4	5.2	5.1	5.1	11.7	11.9	11.9		12.4			12.8
					B	0.3	159.3	27.9	25.1	25.1	8.0	8.0	75.1	75.4	5.1	5.1	5.1	12.1	11.9	11.9	12.0	12.0			
						0.4	72.1	28.1	22.2	22.2	7.9	7.9	76.3	76.5	5.3	5.3	5.1	3.8	3.7	3.7	4.6	4.9			
						0.5	139.2	28.1	22.2	22.2	7.9	7.9	76.8	76.5	5.3	5.3	5.1	3.6	3.7	3.7	5.1	6.3			
IM18	Cloudy	Calm	04:43	17.5	M	0.9	149.1	27.9	27.9	25.1	25.1	8.0	8.0	72.7	73.1	5.0	5.0	5.0	4.7	4.5	5.2	6.5	7.1	7.1	
						0.9	170.0	27.9	25.1	25.1	8.0	8.0	73.5	73.1	5.0	5.0	5.0	4.3	4.5	4.5		6.6			6.5
						0.7	223.9	27.4	27.3	27.3	7.9	7.9	64.1	63.3	4.4	4.3	4.3	7.3	7.5	7.5		10.3			9.9
					B	0.2	51.2	27.4	27.3	27.3	7.9	7.9	62.5	63.3	4.2	4.3	4.3	7.6	7.5	7.5	9.4	9.9			
						0.5	255.4	28.5	28.5	23.1	23.2	7.9	7.9	74.0	73.9	5.1	5.0	5.0	5.0	5.1	5.1	4.7	4.7		
						0.4	124.8	28.4	23.3	23.2	7.9	7.9	73.9	73.9	5.0	5.0	5.0	5.1	5.1	5.1	4.6	4.7			
IM19	Cloudy	Calm	04:12	18.0	M	0.9	68.6	28.0	28.0	25.7	25.8	7.9	7.9	71.5	71.7	4.9	4.9	4.9	5.9	5.9	6.7	7.2	7.5	8.4	
						0.5	340.3	27.9	25.9	25.9	7.9	7.9	71.9	71.7	4.9	4.9	4.9	5.9	5.9	5.9		7.7			7.7
						0.2	198.2	27.5	27.2	27.2	7.9	7.9	67.3	66.8	4.6	4.5	4.5	9.1	9.3	9.3		12.9			12.9
					B	0.7	114.0	27.5	27.2	27.2	7.9	7.9	66.4	66.8	4.5	4.5	4.5	9.5	9.3	9.3	13.1	13.0			
						0.6	246.6	28.5	21.4	21.4	7.8	7.8	76.7	77.2	5.3	5.3	5.3	5.0	4.8	4.8	6.2	6.5			
						0.3	304.8	28.5	21.4	21.4	7.8	7.8	77.7	77.2	5.4	5.3	5.3	4.6	4.8	4.8	6.8	6.5			
IM20A	Cloudy	Calm	03:15	5.0	B	0.5	285.1	28.2	28.0	23.6	24.2	7.8	7.8	75.0	72.6	5.1	5.0	5.0	5.3	5.8	5.3	7.7	7.8	7.1	
						0.5	246.3	27.9	24.8	24.2	7.8	7.8	70.2	72.6	4.8	5.0	5.0	6.3	5.8	5.8		7.8			7.8
						0.3	358.0	27.9	24.7	24.7	7.9	7.9	68.9	68.8	4.7	4.7	4.7	7.9	7.8	7.8		10.4			10.1
					S	0.6	215.3	27.9	24.8	24.7	7.9	7.9	68.8	68.8	4.7	4.7	4.7	7.7	7.8	7.8	9.8	9.8			
						0.2	85.6	27.8	24.9	24.9	7.9	7.9	71.2	70.4	4.9	4.8	4.8	10.5	10.4	10.4	15.3	15.8			
						0.5	55.6	27.8	24.9	24.9	7.9	7.9	69.7	70.4	4.8	4.8	4.8	10.3	10.4	10.4	16.2	16.2			
IM21A	Cloudy	Calm	03:24	5.5	S	0.5	269.9	28.6	28.6	24.5	24.5	7.9	7.9	75.9	75.8	5.1	5.1	5.1	11.5	11.6	9.1	15.5	15.7	12.9	
						0.5	269.9	28.6	24.5	24.5	7.9	7.9	75.6	75.8	5.1	5.1	5.1	11.6	11.6	11.6		15.9			15.9
						0.3	304.6	28.5	24.6	24.6	7.9	7.9	76.9	76.3	5.2	5.2	5.2	12.7	12.5	12.5		16.9			16.9
					B	0.2	155.4	28.5	24.6	24.6	7.9	7.9	75.8	76.3	5.1	5.2	5.2	12.3	12.5	12.5	17.6	17.3			
						0.5	269.9	28.6	24.5	24.5	7.9	7.9	75.9	75.8	5.1	5.1	5.1	11.5	11.6	11.6	15.5	15.5			
						0.3	304.6	28.5	24.6	24.6	7.9	7.9	76.9	76.3	5.2	5.2	5.2	12.7	12.5	12.5	16.9	16.9			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
E1	Fine	Calm	10:15	8.5	S	0.3	239.8	27.4	27.4	29.1	29.1	7.9	7.9	72.3	72.5	4.9	4.9	4.7	3.9	3.8	3.3	3.6	
						0.3	239.8	27.4	29.1	29.1	7.9	7.9	72.7	72.5	4.9	4.9	4.7	3.9	3.8	3.3	3.6		
						0.2	262.3	27.3	27.3	29.6	29.6	7.9	7.9	68.6	68.6	4.6	4.6	4.7	5.8	5.3	5.9	6.0	
					M	0.3	239.8	27.3	27.4	29.6	29.6	7.9	7.9	68.5	68.5	4.6	4.6	4.5	4.9	4.5	4.9	15.1	14.4
						0.0	0.0	27.4	27.4	30.7	30.8	7.9	7.9	68.5	68.1	4.6	4.5	4.5	14.9	16.1	13.7	13.7	14.4
						0.3	237.0	27.4	27.4	31.0	30.8	8.0	7.9	67.7	68.1	4.5	4.5	4.5	17.3	16.1	13.7	13.7	14.4
E2	Fine	Calm	15:07	8.8	S	0.3	282.3	28.4	28.4	29.5	29.5	8.1	8.1	108.2	108.5	7.1	7.2	6.4	4.9	4.8	4.9	5.9	
						0.9	322.7	28.4	28.4	29.5	29.5	8.1	8.1	108.9	108.5	7.2	7.2	6.4	4.7	4.8	6.0	6.0	
						0.1	255.3	27.7	27.7	30.0	30.0	8.1	8.1	83.1	83.5	5.5	5.6	5.6	6.8	6.6	7.3	7.6	
					M	0.4	270.2	27.7	27.7	30.0	30.0	8.1	8.1	83.9	83.5	5.6	5.6	4.9	6.4	6.6	7.8	7.8	
						0.3	346.6	27.6	27.6	31.0	31.0	8.1	8.1	73.5	73.4	4.9	4.9	4.9	25.7	24.1	45.7	46.4	
						0.3	346.6	27.6	27.6	31.1	31.0	8.1	8.1	73.3	73.4	4.9	4.9	4.9	22.4	24.1	47.0	46.4	
E3	Fine	Calm	14:06	16.5	S	0.1	347.0	29.1	29.1	21.8	22.1	8.0	8.0	94.3	94.4	6.4	6.4	6.1	3.9	3.8	4.5	4.3	
						0.1	347.0	29.0	29.1	22.5	22.1	8.0	8.0	94.5	94.4	6.4	6.4	6.1	3.8	3.8	4.1	4.3	
						0.3	250.2	27.7	27.7	30.3	30.3	8.1	8.1	85.8	86.0	5.7	5.7	5.7	4.0	3.9	5.3	5.3	
					M	0.3	250.2	27.7	27.7	30.3	30.3	8.1	8.1	86.1	86.0	5.7	5.7	5.7	3.9	3.9	5.3	5.3	
						0.3	286.0	27.8	27.8	31.1	31.1	8.1	8.1	82.1	81.9	5.4	5.4	5.4	13.1	13.6	8.4	8.6	
						0.2	301.4	27.8	27.8	31.1	31.1	8.1	8.1	81.8	81.9	5.4	5.4	5.4	14.2	13.6	8.8	8.6	
E4	Cloudy	Calm	11:13	11.0	S	0.9	176.3	28.6	28.6	18.8	19.0	7.9	7.9	80.1	79.9	5.6	5.6	5.6	2.6	2.7	4.2	4.2	
						0.9	157.0	28.5	28.6	19.2	19.0	7.9	7.9	79.7	79.9	5.6	5.6	5.6	2.8	2.7	4.1	4.2	
						0.9	155.9	27.9	27.9	26.0	26.1	8.0	8.0	82.9	83.0	5.6	5.6	5.6	3.1	3.2	4.5	4.8	
					M	0.9	155.9	27.9	27.9	26.3	26.1	8.0	8.0	83.1	83.0	5.6	5.6	5.6	3.3	3.2	5.1	5.1	
						0.4	294.9	27.7	27.7	29.0	29.0	8.1	8.1	79.5	79.1	5.3	5.3	5.3	9.2	9.6	11.1	10.9	
						0.9	111.1	27.7	27.7	29.0	29.0	8.1	8.1	78.7	79.1	5.3	5.3	5.3	9.9	9.6	10.7	10.9	
E5	Cloudy	Calm	12:25	5.5	S	0.4	125.9	29.3	29.3	16.1	16.2	7.8	7.8	76.6	76.5	5.4	5.4	5.4	3.6	3.4	5.1	5.4	
						0.9	315.8	29.3	29.3	16.3	16.2	7.8	7.8	76.4	76.5	5.4	5.4	5.4	3.3	3.4	5.7	5.4	
						0.7	11.3	28.4	28.3	21.5	21.6	7.9	7.9	77.9	77.4	5.4	5.3	5.3	4.5	4.7	6.7	6.7	
					B	0.8	70.6	28.3	28.3	21.8	21.6	7.9	7.9	77.0	77.4	5.3	5.3	5.3	4.9	4.7	6.7	6.7	
						0.4	176.9	29.4	29.2	16.1	16.4	7.8	7.8	73.3	72.3	5.1	5.1	5.1	5.9	5.8	7.0	7.4	
						0.5	163.6	29.1	29.2	16.8	16.4	7.8	7.8	71.2	72.3	5.0	5.0	5.1	5.6	5.8	7.7	7.4	
E6	Cloudy	Calm	14:37	5.5	S	0.5	269.5	27.8	27.8	25.2	25.2	7.9	7.9	71.3	69.9	4.9	4.8	4.8	9.0	9.7	17.8	17.5	
						1.1	8.1	27.8	27.8	25.2	25.2	7.9	7.9	68.5	69.9	4.7	4.8	4.8	10.3	9.7	17.1	17.5	
						0.3	271.7	29.5	29.5	17.7	17.8	7.9	7.9	93.8	96.1	6.5	6.6	6.6	6.5	6.6	2.9	3.1	
					B	0.3	271.7	29.4	29.5	17.9	17.8	7.9	7.9	98.4	96.1	6.8	6.6	6.6	2.7	2.8	3.3	3.1	
						1.7	295.2	27.8	27.8	25.7	25.7	7.9	7.9	74.4	73.3	5.1	5.0	5.0	9.3	9.4	11.3	12.2	
						0.4	316.1	27.8	27.8	25.6	25.7	7.9	7.9	72.1	73.3	4.9	5.0	5.0	9.5	9.4	13.1	12.2	
E7A	Cloudy	Calm	15:30	5.0	S	0.0	0.0	27.8	27.8	30.3	30.2	8.1	8.1	84.5	83.8	5.6	5.6	5.5	3.0	3.2	4.4	4.7	
						0.3	211.5	27.8	27.8	30.0	30.2	8.1	8.1	83.1	83.8	5.5	5.5	5.5	3.4	3.2	5.0	4.7	
						0.1	290.3	27.5	27.5	31.4	31.4	8.2	8.2	82.3	83.1	5.5	5.5	5.5	3.8	3.4	5.0	5.1	
					M	0.1	290.3	27.5	27.5	31.4	31.4	8.2	8.2	84.0	83.1	5.6	5.5	5.5	2.9	3.4	5.1	5.1	
						0.3	330.8	27.6	27.6	32.0	32.0	8.1	8.1	67.4	66.7	4.4	4.4	4.4	17.0	16.9	21.6	20.6	
						0.3	330.8	27.6	27.6	32.0	32.0	8.1	8.1	66.1	66.7	4.4	4.4	4.4	16.7	16.9	19.6	20.6	
F1	Fine	Calm	11:01	20.0	S	0.2	214.2	27.7	27.7	29.0	28.9	8.0	8.0	84.2	84.1	5.6	5.6	5.6	3.7	3.7	4.6	4.6	
						0.2	192.9	27.7	27.7	28.9	28.9	8.0	8.0	84.0	84.1	5.6	5.6	5.6	3.8	3.7	4.5	4.6	
						0.4	26.0	27.6	27.6	31.4	31.4	8.2	8.2	83.5	83.5	5.5	5.5	5.5	3.9	3.8	5.9	5.7	
					M	0.1	23.6	27.6	27.6	31.4	31.4	8.2	8.2	83.6	83.5	5.5	5.5	5.5	3.6	3.8	5.5	5.7	
						0.4	36.4	27.6	27.6	31.5	31.5	8.2	8.2	82.6	82.5	5.5	5.5	5.5	9.3	10.2	12.5	12.9	
						0.4	36.4	27.6	27.6	31.5	31.5	8.2	8.2	82.3	82.5	5.4	5.5	5.5	11.1	10.2	13.2	12.9	

Water Quality Monitoring Data Log Sheet

Date: 2019/09/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average
F3	Fine	Calm	12:45	17.5	S	0.4	284.0	28.3	28.3	29.8	29.7	8.1	8.1	94.1	95.1	6.2	6.3	5.9	3.7	3.6	5.2	17.6
						0.3	222.0	28.3	28.3	29.7	29.7	8.1	8.1	96.0	95.1	6.3	6.3	5.9	3.6	3.6	5.1	
						0.2	28.8	27.6	27.6	31.3	31.3	8.2	8.2	84.0	84.1	5.6	5.6	5.3	4.7	4.3	5.5	
					0.2	28.8	27.6	27.6	31.3	31.3	8.2	8.2	84.2	84.1	5.6	5.6	5.3	3.9	4.3	5.8		
					0.3	124.4	27.6	27.6	31.5	31.5	8.1	8.1	80.2	79.9	5.3	5.3	5.3	29.5	29.8	41.0		
					0.2	3.9	27.6	27.6	31.5	31.5	8.1	8.1	79.5	79.9	5.3	5.3	5.3	30.1	29.8	42.8		
F4	Fine	Calm	14:42	13.3	S	0.2	264.5	28.5	28.4	29.4	29.4	8.1	8.1	113.0	113.4	7.5	7.5	6.5	4.5	4.5	7.2	13.2
						0.2	264.5	28.4	28.4	29.4	29.4	8.1	8.1	113.7	113.4	7.5	7.5	6.5	4.5	4.5	7.2	
						0.3	334.0	27.6	27.6	30.2	30.2	8.1	8.1	82.6	82.6	5.5	5.5	5.5	7.2	7.2	14.3	
					0.5	310.0	27.6	27.6	30.2	30.2	8.1	8.1	82.5	82.6	5.5	5.5	5.5	7.2	7.2	14.9		
					0.3	21.1	27.6	27.6	30.5	30.5	8.1	8.1	81.1	80.8	5.4	5.4	5.4	14.6	14.3	17.4		
					0.2	215.5	27.6	27.6	30.5	30.5	8.1	8.1	80.5	80.8	5.4	5.4	5.4	14.1	14.3	17.3		
F5	Cloudy	Calm	11:47	5.5	S	0.3	236.0	28.2	28.2	26.4	26.4	8.0	8.0	85.2	85.4	5.7	5.8	5.8	2.6	2.5	4.9	9.4
						0.2	88.5	28.3	28.2	26.5	26.4	8.0	8.0	85.7	85.4	5.8	5.8	5.8	2.5	2.5	4.9	
						0.5	64.7	27.8	27.8	28.3	28.3	8.1	8.1	82.8	81.5	5.6	5.5	5.5	9.8	10.7	13.8	
					0.7	124.6	27.8	27.8	28.4	28.3	8.1	8.1	80.2	81.5	5.4	5.5	5.5	11.6	10.7	14.1		
					0.7	324.0	28.7	28.7	21.1	20.9	7.9	7.8	80.5	80.7	5.5	5.6	5.6	2.6	2.7	4.6		
					0.7	324.0	28.7	28.7	20.7	20.9	7.8	7.8	80.9	80.7	5.6	5.6	5.6	2.7	2.7	4.9		
F6	Cloudy	Calm	13:20	13.5	M	0.8	284.9	27.9	27.9	25.2	25.3	7.9	7.9	73.3	73.4	5.0	5.0	5.3	4.2	4.0	8.5	12.8
						0.5	255.9	27.9	27.9	25.4	25.3	7.9	7.9	73.5	73.4	5.0	5.0	5.0	3.7	4.0	8.2	
						0.5	285.7	27.6	27.6	27.3	27.3	7.9	7.9	70.7	70.2	4.8	4.8	4.8	16.7	17.6	25.2	
					0.8	309.6	27.6	27.6	27.3	27.3	7.9	7.9	69.7	70.2	4.7	4.8	4.8	18.4	17.6	25.1		
					0.4	67.8	27.9	27.9	30.9	30.9	8.1	8.1	82.0	82.3	5.4	5.4	5.4	5.6	5.3	4.8		
					0.4	67.8	27.9	27.9	30.9	30.9	8.1	8.1	82.5	82.3	5.4	5.4	5.4	5.0	5.3	4.1		
IM1	Fine	Calm	10:44	9.5	M	0.2	64.9	27.6	27.6	31.2	31.2	8.1	8.1	80.1	80.0	5.3	5.3	5.4	8.5	8.7	10.2	10.6
						0.4	67.8	27.6	27.6	31.3	31.2	8.1	8.1	79.9	80.0	5.3	5.3	5.4	8.8	8.7	10.4	
						0.3	49.9	27.6	27.6	31.4	31.4	8.1	8.1	80.7	80.6	5.3	5.3	5.3	12.0	11.3	16.7	
					0.3	49.9	27.6	27.6	31.4	31.4	8.1	8.1	80.5	80.6	5.3	5.3	5.3	10.6	11.3	17.4		
					0.6	239.8	27.4	27.4	29.0	29.0	8.0	8.0	75.1	75.1	5.1	5.1	5.0	4.0	4.1	4.3		
					0.4	252.7	27.4	27.4	29.0	29.0	8.0	8.0	75.1	75.1	5.1	5.1	5.0	4.1	4.1	3.6		
IM2	Fine	Calm	10:25	11.5	M	0.4	247.7	27.3	27.3	29.4	29.4	8.0	8.0	74.5	74.4	5.0	5.0	5.0	5.9	5.7	9.2	11.2
						0.4	247.7	27.3	27.3	29.4	29.4	8.0	8.0	74.3	74.4	5.0	5.0	5.0	5.6	5.7	9.9	
						0.0	293.6	27.5	27.5	31.4	31.4	8.0	8.0	75.6	75.4	5.0	5.0	5.0	16.5	16.7	19.3	
					0.2	17.2	27.5	27.5	31.4	31.4	8.0	8.0	75.2	75.4	5.0	5.0	5.0	17.0	16.7	20.8		
					0.6	251.0	27.6	27.6	28.8	28.8	8.0	8.0	81.0	81.1	5.4	5.5	5.5	5.1	4.9	6.5		
					0.6	251.0	27.6	27.6	28.8	28.8	8.0	8.0	81.3	81.1	5.5	5.5	5.5	4.7	4.9	6.7		
IM3	Fine	Calm	11:49	15.0	M	0.3	132.4	27.6	27.6	31.2	31.2	8.1	8.1	79.3	79.3	5.3	5.3	5.4	7.8	7.7	14.0	15.6
						0.3	132.4	27.6	27.6	31.2	31.2	8.1	8.1	79.4	79.3	5.3	5.3	5.4	7.6	7.7	15.3	
						0.2	187.2	27.6	27.6	31.3	31.3	8.1	8.1	78.9	77.8	5.2	5.1	5.1	11.6	12.8	24.2	
					0.2	352.2	27.6	27.6	31.3	31.3	8.1	8.1	76.6	77.8	5.1	5.1	5.1	13.9	12.8	26.9		
					0.3	208.4	27.8	27.8	30.0	30.0	8.1	8.1	86.6	85.9	5.8	5.7	5.7	5.2	5.2	11.0		
					0.3	208.4	27.8	27.8	30.0	30.0	8.1	8.1	85.2	85.9	5.7	5.7	5.7	5.2	5.2	11.0		
IM4	Fine	Calm	12:08	16.5	M	0.4	151.1	27.6	27.6	31.1	31.2	8.2	8.2	80.4	80.7	5.3	5.3	5.5	6.3	5.9	12.0	13.4
						0.1	290.6	27.6	27.6	31.2	31.2	8.2	8.2	81.0	80.7	5.4	5.3	5.3	5.5	5.9	11.9	
						0.4	272.7	27.6	27.6	31.3	31.3	8.1	8.1	77.6	77.3	5.1	5.1	5.1	12.9	13.0	16.8	
					0.1	315.9	27.6	27.6	31.3	31.3	8.1	8.1	76.9	77.3	5.1	5.1	5.1	13.0	13.0	17.5		
					0.1	250.9	28.5	28.5	29.7	29.7	8.1	8.1	95.5	95.8	6.3	6.3	6.0	3.6	3.5	9.2		
					0.1	205.4	28.5	28.5	29.7	29.7	8.1	8.1	96.2	95.8	6.3	6.3	6.0	3.5	3.5	9.4		
IM5	Fine	Calm	12:28	15.0	M	0.1	118.8	27.6	27.6	30.7	30.7	8.1	8.1	85.1	85.3	5.7	5.7	6.0	3.6	3.2	10.1	12.0
						0.2	173.9	27.6	27.6	30.7	30.7	8.1	8.1	85.5	85.3	5.7	5.7	6.0	2.9	3.2	10.4	
						0.4	84.3	27.6	27.6	31.3	31.3	8.1	8.1	83.5	83.3	5.5	5.5	5.5	10.5	11.3	16.8	
					0.3	16.3	27.6	27.6	31.3	31.3	8.1	8.1	83.0	83.3	5.5	5.5	5.5	12.2	11.3	16.0		

Water Quality Monitoring Data Log Sheet

Date: 2019/09/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average
IM15	Cloudy	Calm	12:14	5.5	S	0.3	356.0	28.6	28.6	20.0	19.7	7.9	7.9	78.9	78.6	5.5	5.5	5.5	3.7	3.6	5.0	4.7	7.7		
						0.3	356.0	28.7	19.5	19.7	7.9	7.9	78.2	78.6	5.4	5.5	5.5	3.6	3.6	5.0	4.8				
					B	0.4	32.4	27.8	27.4	27.4	8.1	8.1	80.5	80.0	5.4	5.4	5.4	6.2	6.4	5.0	10.9	10.6			
						0.3	84.9	27.8	27.4	27.4	8.1	8.1	79.5	79.5	5.4	5.4	5.4	6.5	6.4	5.0	10.2				
IM16A	Cloudy	Calm	12:56	7.0	S	0.9	158.1	29.4	29.3	15.7	15.7	7.8	7.8	72.2	72.0	5.1	5.0	5.1	4.1	4.2	5.1	6.0	7.0	10.5	
						0.1	269.1	29.3	15.8	15.7	7.8	7.8	71.8	72.0	5.0	5.0	5.0	4.2	4.2	5.1		6.4			
					M	0.1	115.7	28.0	28.0	23.6	23.6	7.9	7.9	74.2	74.2	5.1	5.1	5.1	7.3	7.4	5.1	10.4			10.1
						0.3	239.4	28.0	28.0	23.6	23.6	7.9	7.9	74.1	74.2	5.1	5.1	5.1	7.4	7.4		5.1			
					B	0.4	9.8	28.0	28.0	24.3	24.3	7.9	7.9	76.6	76.1	5.2	5.2	5.2	9.1	9.5	5.2	15.6			15.2
						0.4	9.8	28.0	28.0	24.3	24.3	7.9	7.9	75.6	76.1	5.2	5.2	5.2	9.8	9.5		5.2			
IM17	Cloudy	Calm	13:59	5.0	S	2.0	6.2	29.7	29.7	15.3	15.3	7.8	7.8	72.4	72.3	5.1	5.1	5.1	5.1	5.0	5.1	7.8	11.0	16.5	
						0.3	107.3	29.7	15.2	15.3	7.8	7.8	72.2	72.3	5.0	5.1	5.1	4.8	5.0	5.1		7.7			
					B	0.3	346.2	28.0	28.0	23.1	23.1	7.9	7.9	72.7	72.4	5.0	5.0	5.0	17.6	17.0	5.0	24.3			25.3
						0.2	311.5	28.0	28.0	23.1	23.1	7.9	7.9	72.2	72.4	5.0	5.0	5.0	16.5	17.0		5.0			
IM18	Cloudy	Calm	13:46	17.0	S	0.5	102.6	28.3	28.3	20.8	21.0	7.8	7.8	69.3	69.1	4.8	4.8	4.8	6.1	5.9	4.8	7.2	13.7	23.3	
						0.5	102.6	28.3	21.2	21.0	7.8	7.8	68.9	69.1	4.8	4.8	4.8	5.8	5.9	4.8		6.4			
					M	0.1	97.8	27.8	27.8	25.9	25.9	7.9	7.9	70.6	70.8	4.8	4.8	4.8	6.4	5.8	4.8	8.4			8.4
						1.5	274.2	27.8	27.8	25.9	25.9	7.9	7.9	71.0	70.8	4.8	4.8	4.8	5.2	5.8		4.8			
					B	0.6	354.5	27.5	27.5	26.9	26.9	7.9	7.9	67.9	67.3	4.6	4.6	4.6	27.8	29.4	4.6	52.7			54.7
						0.2	331.9	27.5	27.5	26.9	26.9	7.9	7.9	66.6	67.3	4.5	4.6	4.6	31.1	29.4		4.6			
IM19	Cloudy	Calm	14:17	17.5	S	0.3	32.5	28.3	28.3	22.3	22.5	7.9	7.8	74.9	74.9	5.2	5.1	5.0	2.9	3.0	5.0	4.7	5.9	11.0	
						0.3	32.5	28.3	28.3	22.7	22.5	7.8	7.8	74.9	74.9	5.1	5.1	5.0	3.1	3.0		5.0			5.0
					M	0.3	318.7	27.9	27.9	25.4	25.4	7.9	7.9	72.1	72.7	4.9	4.9	4.9	3.7	3.4	4.9	8.8			8.5
						1.5	333.7	28.0	27.9	25.4	25.4	7.9	7.9	73.3	72.7	5.0	4.9	4.9	3.1	3.4		4.9			
					B	0.1	170.3	27.5	27.5	27.3	27.3	7.9	7.9	65.0	64.7	4.4	4.4	4.4	11.4	11.3	4.4	20.0			19.8
						0.5	100.8	27.5	27.5	27.3	27.3	7.9	7.9	64.3	64.7	4.4	4.4	4.4	11.2	11.3		4.4			
IM20A	Cloudy	Calm	15:16	4.5	S	0.7	174.3	29.0	29.0	22.4	22.4	7.8	7.8	76.3	77.0	5.2	5.2	5.2	6.4	6.5	5.2	8.9	7.4	12.2	
						0.7	174.3	29.0	29.0	22.3	22.4	7.8	7.8	77.7	77.0	5.3	5.2	5.2	6.7	6.5		5.2			8.3
					B	0.9	210.6	28.1	28.2	24.7	24.5	7.8	7.8	72.2	71.7	4.9	4.9	4.9	8.8	8.3	4.9	16.1			15.9
						0.3	142.4	28.3	28.2	24.4	24.5	7.8	7.8	71.2	71.7	4.8	4.9	4.9	7.8	8.3		4.9			
IM21A	Cloudy	Calm	15:06	4.5	S	0.3	34.2	30.0	30.0	20.3	20.3	7.8	7.8	82.1	84.1	5.6	5.7	5.7	6.5	5.8	5.7	7.2	18.2	25.4	
						0.8	165.5	30.0	30.0	20.4	20.3	7.8	7.8	86.1	84.1	5.8	5.7	5.7	5.0	5.8		5.7			6.7
					B	0.3	246.9	28.1	28.4	24.7	24.2	7.8	7.8	71.3	72.5	4.9	4.9	4.9	32.9	30.7	4.9	45.8			43.8
						0.3	294.8	28.8	28.4	23.7	24.2	7.8	7.8	73.7	72.5	5.0	4.9	4.9	28.4	30.7		4.9			
IM22A	Cloudy	Calm	15:01	4.5	S	1.0	92.2	29.0	29.0	20.5	21.0	7.8	7.8	80.3	79.7	5.5	5.5	5.5	4.3	4.0	5.5	4.0	5.8	8.3	
						0.6	56.7	29.0	29.0	21.5	21.0	7.8	7.8	79.1	79.7	5.4	5.5	5.5	3.8	4.0		5.5			4.2
					B	0.6	52.6	28.0	28.0	25.2	25.0	7.8	7.8	70.1	69.7	4.8	4.7	4.7	7.4	7.6	4.7	13.0			12.4
						0.4	34.0	28.1	28.0	24.9	25.0	7.8	7.8	69.3	69.7	4.7	4.7	4.7	7.8	7.6		4.7			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	Value	Average	DA*
E1	Fine	Calm	11:50	8.3	S	0.2	198.4	29.3	29.3	27.7	27.7	8.0	8.0	111.8	112.3	7.4	7.4	6.5	3.0	3.0	2.8	2.4	7.4		
						0.2	198.4	29.3	29.3	27.7	27.7	8.0	8.0	112.8	112.3	7.4	7.4	6.5	3.0	3.0	1.9				
					M	0.2	198.4	28.3	28.3	29.0	29.0	7.9	7.9	84.0	84.4	5.6	5.6	4.1	4.1	4.1	4.6	4.6	4.8	4.7	7.4
						0.2	198.4	28.3	28.3	29.1	29.1	7.9	7.9	84.8	84.4	5.6	5.6	4.1	4.1	4.1	4.5	4.5	4.6		
					B	0.2	256.1	27.9	27.9	30.0	30.2	7.9	7.9	63.0	61.4	4.2	4.1	4.1	4.1	4.1	7.2	7.5	6.5	15.2	7.4
						0.4	173.3	27.8	27.9	30.3	30.2	7.9	7.9	59.7	61.4	4.0	4.1	4.1	4.1	4.1	7.8	7.5	23.9		
E2	Fine	Calm	06:44	9.5	S	0.3	52.9	29.8	29.8	28.8	28.8	8.2	8.2	150.5	151.4	9.7	9.8	8.8	2.3	2.3	2.0	2.3	10.5		
						0.2	99.6	29.8	29.8	28.8	28.8	8.2	8.2	152.3	151.4	9.9	9.8	8.8	2.3	2.3	2.6			2.6	
					M	0.5	106.2	28.8	28.8	29.8	29.8	8.0	8.0	118.9	119.6	7.8	7.8	1.8	1.8	1.8	2.7	2.7	4.7	4.8	10.5
						0.7	154.4	28.7	28.8	29.8	29.8	8.0	8.0	120.3	119.6	7.9	7.8	1.8	1.8	1.8	2.8	2.8	4.8		
					B	0.2	19.4	27.7	27.7	31.1	31.1	7.7	7.7	27.7	26.5	1.8	1.8	1.8	1.8	1.8	16.3	16.2	24.0	24.5	10.5
						0.4	17.3	27.7	27.7	31.1	31.1	7.7	7.7	25.3	26.5	1.7	1.8	1.8	1.8	1.8	16.2	16.2	25.0		
E3	Fine	Calm	07:45	17.0	S	0.3	76.1	29.4	29.4	19.3	19.3	8.2	8.2	112.6	112.9	7.7	7.8	6.6	4.9	4.9	5.3	4.9	7.0		
						0.4	104.3	29.4	29.4	19.3	19.3	8.2	8.2	113.3	112.9	7.8	7.8	6.6	4.9	4.9	4.8			4.8	
					M	0.2	12.5	28.1	28.1	31.2	31.2	8.0	8.0	81.0	81.4	5.3	5.4	4.8	4.8	4.8	4.9	4.7	5.8	6.3	7.0
						0.2	12.5	28.1	28.1	31.3	31.2	8.0	8.0	81.9	81.4	5.4	5.4	4.8	4.8	4.8	4.5	4.5	6.7		
					B	0.1	46.7	28.1	28.1	31.7	31.7	8.0	8.0	74.4	73.9	4.9	4.8	4.8	4.8	4.8	9.5	9.7	10.3	9.8	7.0
						0.4	127.8	28.1	28.1	31.7	31.7	8.0	8.0	73.3	73.9	4.8	4.8	4.8	4.8	4.8	9.8	9.7	9.3		
E4	Cloudy	Calm	10:37	11.0	S	0.3	133.1	29.9	29.9	16.9	16.9	8.4	8.4	139.6	141.7	9.6	9.8	7.7	2.1	2.1	4.2	4.2	9.4		
						1.5	90.2	29.8	29.8	16.9	16.9	8.4	8.4	143.8	141.7	9.9	9.8	7.7	2.2	2.1	4.1			4.1	
					M	1.0	259.2	28.5	28.5	27.6	27.5	8.1	8.1	83.6	83.9	5.6	5.6	5.1	5.1	5.1	2.5	2.5	5.3	5.8	9.4
						0.3	180.2	28.5	28.5	27.5	27.5	8.1	8.1	84.3	83.9	5.6	5.6	5.1	5.1	5.1	2.4	2.4	6.2		
					B	0.5	168.8	28.1	28.1	30.5	30.5	8.1	8.1	78.9	77.5	5.2	5.1	5.1	5.1	5.1	12.9	13.1	17.5	18.2	9.4
						0.5	168.8	28.1	28.1	30.5	30.5	8.1	8.1	76.2	77.5	5.0	5.1	5.1	5.1	5.1	13.2	13.1	18.9		
E5	Cloudy	Calm	09:34	6.0	S	0.3	114.9	29.7	29.7	14.7	15.0	8.2	8.2	101.9	105.5	7.1	7.4	6.1	2.7	2.6	5.5	5.0	6.1		
						0.3	114.9	29.7	29.7	15.4	15.0	8.2	8.2	109.1	105.5	7.6	7.4	6.1	2.5	2.6	4.5			4.5	
					M	1.5	240.3	28.4	28.4	25.7	25.5	8.0	8.0	70.9	71.0	4.8	4.8	5.0	5.0	5.0	4.7	4.4	6.6	6.2	6.1
						0.7	178.9	28.4	28.4	25.4	25.5	8.0	8.0	71.2	71.0	4.8	4.8	5.0	5.0	5.0	4.1	4.4	5.7		
					B	0.5	45.6	28.2	28.2	27.5	27.6	8.0	8.0	77.2	74.2	5.2	5.0	5.0	5.0	5.0	5.8	6.0	6.8	7.2	6.1
						0.3	135.1	28.1	28.2	27.7	27.6	8.0	8.0	71.2	74.2	4.8	5.0	5.0	5.0	5.0	6.3	6.0	7.5		
E6	Cloudy	Calm	07:38	6.5	S	0.7	130.8	29.6	29.6	14.5	14.4	8.0	8.0	94.2	94.3	6.6	6.6	6.1	3.2	3.2	3.0	3.5	3.6		
						0.1	154.5	29.6	29.6	14.3	14.4	8.0	8.0	94.5	94.3	6.7	6.6	6.1	3.2	3.2	3.9			3.9	
					M	0.3	144.8	29.0	29.2	22.0	19.4	7.9	7.9	78.2	81.6	5.3	5.6	5.6	5.6	5.6	2.2	2.4	4.2	3.8	3.6
						0.3	16.1	29.4	29.2	16.7	19.4	8.0	7.9	85.1	81.6	6.0	5.6	5.6	5.6	5.6	2.6	2.4	3.3		
					B	0.3	164.3	28.4	28.5	25.9	25.5	7.9	7.9	75.5	74.1	5.1	5.0	5.0	5.0	5.0	2.3	2.2	3.1	3.6	3.6
						0.4	67.7	28.6	28.5	25.1	25.5	7.9	7.9	72.8	74.1	4.9	5.0	5.0	5.0	5.0	2.0	2.2	4.0		
E7A	Cloudy	Calm	06:46	5.5	S	0.5	238.3	29.5	29.7	16.9	16.0	7.9	7.9	83.2	87.4	5.8	6.1	6.1	2.9	2.8	4.1	3.6	3.3		
						0.5	238.3	29.8	29.7	15.2	16.0	7.9	7.9	91.6	87.4	6.4	6.1	6.1	2.6	2.8	3.1			3.1	
					B	0.3	222.6	28.8	28.7	23.7	23.9	7.8	7.8	74.1	71.8	5.0	4.9	4.9	4.9	4.9	3.5	3.7	2.5	3.0	3.3
						0.2	158.3	28.7	28.7	24.0	23.9	7.8	7.8	69.5	71.8	4.7	4.9	4.9	4.9	4.9	4.0	3.7	3.5		
					S	0.3	163.5	29.4	29.4	28.7	28.7	8.2	8.2	154.0	155.3	10.1	10.1	10.1	10.1	10.1	2.8	2.8	3.4	3.7	7.8
						0.2	163.5	29.4	29.4	28.7	28.7	8.2	8.2	156.7	155.3	10.2	10.1	10.1	10.1	10.1	2.8	2.8	3.9		
M	0.2	116.5	27.8	27.8	31.5	31.5	8.0	8.0	73.1	72.9	4.8	4.8	4.8	4.8	4.8	3.8	3.7	3.7	4.2	7.8					
	0.4	92.9	27.9	27.8	31.5	31.5	8.0	8.0	72.8	72.9	4.8	4.8	4.8	4.8	4.8	3.7	3.7	4.7			4.7				
B	0.3	92.1	28.1	28.1	32.3	32.3	8.0	8.0	69.2	68.7	4.5	4.5	4.5	4.5	4.5	11.3	11.5	15.6	15.5	7.2					
	0.1	217.1	28.1	28.1	32.3	32.3	8.0	8.0	68.3	68.7	4.5	4.5	4.5	4.5	4.5	11.6	11.5	15.3			15.3				
F2	Fine	Calm	10:25	19.0	S	0.3	104.8	29.6	29.5	27.7	27.8	8.2	8.2	150.8	149.2	9.9	9.8	7.6	2.2	2.3	5.9	5.4	7.2		
						0.3	104.8	29.5	29.5	27.9	27.8	8.2	8.2	147.7	149.2	9.7	9.8	7.6	2.3	2.3	4.9			4.9	
					M	0.2	132.4	28.2	28.2	31.5	31.4	8.0	8.0	81.3	82.5	5.3	5.4	5.4	5.4	5.4	2.8	2.6	7.2	6.7	7.2
						0.4	145.7	28.2	28.2	31.4	31.4	8.0	8.0	83.6	82.5	5.5	5.4	5.4	5.4	5.4	2.4	2.6	6.2		
					B	0.0	9.5	28.1	28.1	32.1	32.1	8.0	8.0	69.0	68.3	4.5	4.5	4.5	4.5	4.5	10.9	11.5	9.3	9.6	7.2
						0.1	46.3	28.1	28.1	32.1	32.1	8.0	8.0	67.5	68.3	4.4	4.5	4.5	4.5	4.5	12.1	11.5	9.9		

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
F3	Fine	Calm	09:04	18.0	S	0.5	95.3	29.8	29.7	26.1	26.5	8.2	8.2	149.3	152.2	9.8	10.0	7.7	2.7	2.6	5.0	5.2	20.2
						0.5	95.3	29.7	29.7	26.9	26.5	8.2	8.2	155.1	152.2	10.2	10.0	7.7	2.5	2.6	5.4	5.2	
						0.3	109.4	28.2	28.2	31.7	31.7	8.0	8.0	81.0	81.5	5.3	5.3	7.7	3.7	3.2	2.5	2.6	
					0.3	75.3	28.2	28.1	31.7	31.7	8.0	8.0	82.0	81.5	5.4	5.3	4.4	2.8	2.5	2.7	2.6		
					0.5	113.7	28.1	28.1	32.4	32.4	8.0	8.0	68.8	68.2	4.5	4.4	4.4	19.5	20.5	52.1	52.7		
					0.5	113.7	28.1	28.1	32.4	32.4	8.0	8.0	67.6	68.2	4.4	4.4	4.4	21.6	20.5	53.3	52.7		
F4	Fine	Calm	07:10	14.0	S	0.2	33.9	30.2	30.2	26.6	26.5	8.1	8.1	131.6	131.8	8.6	8.6	7.0	3.4	3.4	3.2	3.7	9.1
						0.2	33.9	30.2	30.2	26.4	26.5	8.1	8.1	132.0	131.8	8.6	8.6	7.0	3.4	3.4	4.2	3.7	
						0.2	77.6	28.2	28.1	30.3	30.3	7.9	7.9	81.2	81.4	5.4	5.4	4.2	3.1	3.1	5.6	5.9	
					0.4	143.6	28.1	28.1	30.4	30.3	7.9	7.9	81.6	81.4	5.4	5.4	4.2	3.0	3.1	6.1	5.9		
					0.2	138.5	28.0	28.0	31.6	31.6	7.9	7.9	64.4	63.7	4.2	4.2	4.2	13.0	12.7	19.0	17.8		
					0.1	136.6	28.0	28.0	31.6	31.6	7.9	7.9	63.0	63.7	4.1	4.2	4.2	12.4	12.7	16.5	17.8		
F5	Cloudy	Calm	10:09	5.5	S	3.9	185.8	29.7	29.7	15.0	15.0	8.4	8.4	136.7	139.9	9.6	9.8	9.8	2.1	2.1	4.3	4.6	5.2
						3.9	185.8	29.7	29.7	15.0	15.0	8.4	8.4	143.2	139.9	10.0	9.8	9.8	2.1	2.1	4.8	4.6	
					1.0	194.1	28.8	28.8	25.0	25.0	8.1	8.0	94.8	91.1	6.4	6.1	6.1	2.5	2.6	5.3	5.8		
					0.5	225.2	28.9	28.8	25.0	25.0	8.0	8.0	87.4	91.1	5.9	6.1	6.1	2.8	2.6	6.2	5.8		
F6	Cloudy	Calm	08:55	14.0	S	0.6	0.1	29.6	29.6	16.3	17.1	8.1	8.1	101.0	99.6	7.0	6.9	5.7	2.1	2.1	3.0	3.5	5.8
						0.6	0.1	29.5	29.6	17.8	17.1	8.0	8.1	98.3	99.6	6.8	6.9	5.7	2.1	2.1	3.9	3.5	
						0.5	112.1	28.4	28.5	26.8	26.7	7.9	7.9	66.3	68.3	4.4	4.6	4.6	2.6	2.4	5.1	4.7	
					0.6	24.5	28.5	28.5	26.5	26.7	7.9	7.9	70.4	68.3	4.7	4.6	4.6	2.2	2.4	4.2	4.7		
					1.4	154.5	27.9	27.9	28.8	28.8	7.9	7.9	61.5	59.6	4.1	4.0	4.0	5.9	6.2	8.9	9.4		
					0.7	144.2	27.9	27.9	28.8	28.8	7.9	7.9	57.7	59.6	3.9	4.0	4.0	6.4	6.2	9.9	9.4		
IM1	Fine	Calm	11:14	9.3	S	0.1	64.6	29.7	29.7	30.0	30.0	8.1	8.1	114.1	115.9	7.4	7.5	6.1	3.5	3.5	2.7	3.2	6.9
						0.1	64.6	29.7	29.7	30.0	30.0	8.1	8.1	117.7	115.9	7.6	7.5	6.1	3.5	3.5	3.6	3.2	
						0.2	58.8	27.7	27.7	31.5	31.5	8.0	8.0	70.0	70.3	4.6	4.6	4.6	4.3	4.2	3.2	3.7	
					0.1	222.3	27.7	27.7	31.5	31.5	8.0	8.0	70.6	70.3	4.7	4.6	4.6	4.2	4.2	4.1	3.7		
					0.2	351.7	27.9	27.9	31.9	31.9	8.0	8.0	72.6	72.2	4.8	4.7	4.7	14.5	14.1	13.0	14.0		
					0.3	50.0	27.9	27.9	31.9	31.9	8.0	8.0	71.8	72.2	4.7	4.7	4.7	13.7	14.1	14.9	14.0		
IM2	Fine	Calm	11:36	11.0	S	0.4	166.7	29.4	29.4	28.0	28.0	8.1	8.1	125.3	125.8	8.2	8.2	6.9	3.0	3.0	3.8	3.7	9.8
						0.5	173.7	29.4	29.4	28.0	28.0	8.1	8.1	126.3	125.8	8.3	8.2	6.9	3.0	3.0	3.5	3.7	
						0.6	210.2	28.3	28.3	29.4	29.4	7.9	7.9	84.2	84.7	5.6	5.6	5.6	3.7	3.6	4.0	3.8	
					0.5	188.9	28.3	28.3	29.4	29.4	7.9	7.9	85.3	84.7	5.6	5.6	5.6	3.5	3.6	3.6	3.8		
					0.2	258.8	27.8	27.8	31.9	31.9	7.9	7.9	64.5	63.8	4.2	4.2	4.2	12.5	12.8	23.1	22.0		
					0.2	258.8	27.8	27.8	31.9	31.9	7.9	7.9	63.1	63.8	4.2	4.2	4.2	13.2	12.8	20.9	22.0		
IM3	Fine	Calm	10:02	14.5	S	0.5	136.3	29.0	29.0	29.1	29.1	8.1	8.1	125.7	125.9	8.2	8.3	6.4	2.8	2.8	2.7	3.2	6.7
						0.5	136.3	29.0	29.0	29.1	29.1	8.1	8.1	126.2	125.9	8.3	8.3	6.4	2.9	2.8	3.6	3.2	
						0.5	68.8	27.9	27.9	31.2	31.2	8.0	8.0	69.2	69.3	4.6	4.6	4.6	4.8	4.7	8.2	7.7	
					0.5	56.1	27.9	27.9	31.2	31.2	8.0	8.0	69.4	69.3	4.6	4.6	4.6	4.7	4.7	7.2	7.7		
					0.3	44.5	28.0	28.0	31.8	31.8	8.0	8.0	67.2	66.6	4.4	4.4	4.4	12.3	12.8	9.7	9.1		
					0.3	44.5	28.0	28.0	31.8	31.8	8.0	8.0	66.0	66.6	4.3	4.4	4.4	13.2	12.8	8.5	9.1		
IM4	Fine	Calm	09:40	16.3	S	0.2	102.9	28.8	28.8	29.6	29.7	8.1	8.1	128.9	130.4	8.4	8.5	6.5	2.9	2.8	3.6	3.2	15.0
						0.2	102.9	28.8	28.8	29.7	29.7	8.1	8.1	131.9	130.4	8.6	8.5	6.5	2.8	2.8	2.7	3.2	
						0.5	107.1	28.0	28.0	31.3	31.3	8.0	8.0	68.5	69.1	4.5	4.5	4.5	6.7	6.6	7.6	8.1	
					0.2	71.7	28.0	28.0	31.3	31.3	8.0	8.0	69.6	69.1	4.6	4.5	4.5	6.5	6.6	8.6	8.1		
					0.3	113.3	28.0	28.0	31.9	31.9	7.9	7.9	60.9	60.5	4.0	4.0	4.0	26.4	26.0	31.2	33.7		
					0.2	87.7	28.0	28.0	31.9	31.9	7.9	7.9	60.1	60.5	3.9	4.0	4.0	25.7	26.0	36.1	33.7		
IM5	Fine	Calm	09:22	15.5	S	0.4	117.5	29.7	29.7	27.0	27.1	8.2	8.2	146.1	145.7	9.6	9.5	7.4	2.4	2.3	1.5	1.7	8.0
						0.1	141.8	29.7	29.7	27.1	27.1	8.2	8.2	145.3	145.7	9.5	9.5	7.4	2.3	2.3	1.8	1.7	
						0.4	106.3	28.2	28.2	31.0	31.0	8.0	8.0	80.1	81.5	5.3	5.4	5.4	3.5	3.1	2.2	2.5	
					0.4	104.5	28.2	28.2	31.0	31.0	8.0	8.0	83.0	81.5	5.5	5.4	5.4	2.7	3.1	2.7	2.5		
					0.3	32.3	28.1	28.1	32.3	32.3	7.9	7.9	68.2	67.6	4.5	4.4	4.4	13.1	13.3	18.5	19.8		
					0.3	32.3	28.1	28.1	32.3	32.3	8.0	8.0	66.9	67.6	4.4	4.4	4.4	13.5	13.3	21.0	19.8		

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	Value	Average
IM6	Fine	Calm	08:53	16.0	S	0.4	30.6	29.8	29.8	25.6	25.7	8.2	8.2	145.3	145.9	9.6	9.6	7.5	2.7	2.7	1.9	2.2
						0.4	30.6	29.8		25.8		8.2		146.4		9.6			2.7		2.4	
					M	0.4	134.0	28.1	28.1	31.5	31.4	8.0	8.0	81.5	81.8	5.3	5.4	4.5	2.7	2.6	2.6	3.1
						0.5	92.4	28.1		31.4		8.0		82.0		5.4			2.5		3.6	
					B	0.1	15.8	28.1	28.1	32.4	32.4	8.0	8.0	69.7	69.0	4.5	4.5	13.0	12.8	13.2	14.6	15.8
						0.1	15.8	28.1		32.4		8.0		68.4		4.5			13.2		16.9	
IM7	Fine	Calm	08:29	13.0	S	0.2	82.4	29.4	29.4	26.5	26.5	8.2	8.2	138.2	138.4	9.1	9.1	7.5	2.5	2.6	2.1	2.2
						0.1	87.4	29.4		26.5		8.2		138.7		9.2			2.6		2.2	
					M	0.1	73.1	28.3	28.2	30.5	30.7	8.0	8.0	88.7	88.6	5.8	5.8	5.1	2.6	2.5	1.3	1.5
						0.3	41.4	28.2		30.8		8.0		88.4		5.8			2.5		1.6	
					B	0.3	54.7	28.2	28.2	32.1	32.1	8.0	8.0	79.3	78.7	5.2	5.1	5.1	7.2	7.2	8.7	9.1
						0.3	54.7	28.2		32.1		8.0		78.2		5.1			7.2		9.4	
IM8	Fine	Calm	08:38	15.0	S	0.4	107.1	29.5	29.5	24.1	24.1	8.2	8.2	135.7	136.1	9.1	9.1	7.3	3.0	3.0	2.4	2.6
						0.4	107.1	29.5		24.1		8.2		136.6		9.1			3.0		2.7	
					M	0.6	223.4	28.2	28.2	31.5	31.4	8.0	8.0	84.8	84.3	5.6	5.5	5.2	3.4	3.2	2.4	2.2
						0.4	77.0	28.2		31.4		8.0		83.8		5.5			3.0		2.0	
					B	0.3	57.7	28.2	28.2	32.0	32.0	8.0	8.0	79.9	79.3	5.2	5.2	5.2	7.0	7.0	7.8	8.3
						0.4	65.4	28.2		32.0		8.0		78.8		5.1			7.1		8.7	
S	0.3	110.0	29.1	29.1	23.2	23.1	8.1	8.1	116.7	117.3	7.9	7.9	6.8	3.2	3.2	2.0	2.4					
	0.4	110.0	29.0		23.0		8.1		117.8		8.0			3.2		2.8						
M	0.4	105.9	28.2	28.2	30.8	30.9	8.0	8.0	89.0	87.0	5.9	5.7	6.8	3.0	2.8	2.2	2.1					
	0.2	135.0	28.1		31.1		8.0		85.1		5.6			2.7		2.0						
B	0.2	136.7	28.1	28.1	31.9	31.9	8.0	8.0	71.8	71.3	4.7	4.7	4.7	15.1	15.2	16.8	16.8					
	0.2	113.2	28.1		31.9		8.0		70.8		4.6			15.4		16.8						
IM9	Fine	Calm	08:09	15.0	S	0.5	11.0	28.6	28.6	27.7	27.6	8.1	8.1	78.0	83.8	5.2	5.6	6.8	19.8	18.1	20.9	22.3
						0.5	11.0	28.7		27.5		8.1		89.5		6.0			16.4		23.7	
					M	0.3	71.0	28.1	28.1	31.6	31.6	8.1	8.1	71.5	71.4	4.7	4.7	5.1	55.0	58.9	113.0	122.0
						0.3	71.0	28.1		31.6		8.1		71.4		4.7			62.7		131.0	
					B	0.6	96.1	28.1	28.1	31.6	31.6	8.1	8.1	71.5	71.5	4.7	4.7	4.7	101.3	102.5	191.0 ^A	176.0
						0.6	183.7	28.1		31.6		8.1		71.4		4.7			103.7		176.0	
IM10	Cloudy	Calm	11:47	11.0	S	0.5	11.0	28.6	28.6	27.7	27.6	8.1	8.1	78.0	83.8	5.2	5.6	6.8	19.8	18.1	20.9	22.3
						0.5	11.0	28.7		27.5		8.1		89.5		6.0			16.4		23.7	
					M	0.3	71.0	28.1	28.1	31.6	31.6	8.1	8.1	71.5	71.4	4.7	4.7	5.1	55.0	58.9	113.0	122.0
						0.3	71.0	28.1		31.6		8.1		71.4		4.7			62.7		131.0	
					B	0.6	96.1	28.1	28.1	31.6	31.6	8.1	8.1	71.5	71.5	4.7	4.7	4.7	101.3	102.5	191.0 ^A	176.0
						0.6	183.7	28.1		31.6		8.1		71.4		4.7			103.7		176.0	
IM11A	Cloudy	Calm	11:35	4.5	S	0.3	218.5	30.1	30.0	17.6	18.0	8.5	8.5	150.6	150.2	10.3	10.3	10.3	12.3	11.8	14.8	15.5
						0.3	218.5	30.0		18.5		8.5		149.8		10.2			11.4		16.1	
					B	0.3	58.1	28.8	28.8	24.9	24.9	8.2	8.2	103.2	102.5	6.9	6.9	6.9	43.2	45.2	86.0	92.9
						0.3	95.8	28.8		24.9		8.2		101.9		6.9			47.2		99.8	
					S	1.5	151.2	29.5	29.6	17.6	17.4	8.4	8.5	142.7	147.2	9.9	10.2	7.5	3.3	3.0	6.1	6.2
						1.1	175.9	29.6		17.1		8.5		151.8		10.5			2.7		6.3	
M	1.0	151.0	28.1	28.1	30.8	30.8	8.1	8.1	73.6	73.6	4.8	4.8	4.6	32.6	32.6	61.7	59.2					
	1.2	150.3	28.1		30.8		8.1		73.6		4.8			32.5		56.6						
B	0.3	131.0	28.1	28.1	31.1	31.1	8.1	8.1	69.9	69.5	4.6	4.6	4.6	360.5	382.5	576.0 ^A	-					
	0.2	121.0	28.1		31.1		8.1		69.2		4.6			404.5		511.0 ^A						
IM12	Cloudy	Calm	11:24	12.5	S	0.3	160.3	29.8	29.8	17.2	17.2	8.5	8.5	153.6	155.2	10.6	10.7	8.9	1.8	1.8	3.2	3.3
						0.3	160.3	29.8		17.2		8.5		156.9		10.8			1.8		3.3	
					M	0.7	235.3	29.2	29.2	18.7	19.3	8.1	8.1	99.0	101.9	6.9	7.0	7.0	2.2	2.0	3.4	3.9
						1.1	252.0	29.2		19.9		8.1		104.7		7.2			1.9		4.3	
					B	0.9	201.0	28.1	28.1	30.6	30.6	8.1	8.1	76.0	75.8	5.0	5.0	5.0	26.8	25.9	45.2	42.3
						0.5	196.2	28.1		30.6		8.1		75.6		5.0			25.0		39.4	
IM13	Cloudy	Calm	11:00	16.5	S	0.5	160.1	30.2	30.2	15.9	15.8	8.6	8.6	163.3	168.0	11.3	11.6	9.9	2.5	2.5	5.8	5.5
						0.7	208.1	30.2		15.8		8.6		172.6		11.9			2.5		5.1	
					M	1.3	132.7	29.5	29.5	18.0	18.0	8.2	8.2	117.7	118.0	8.1	8.1	9.9	2.8	2.5	3.2	3.0
						1.3	198.3	29.5		18.0		8.2		118.3		8.2			2.2		2.7	
					B	0.8	169.4	28.2	28.2	29.7	29.7	8.1	8.1	79.3	78.5	5.3	5.2	5.2	24.5	24.7	32.4	32.2
						0.8	137.4	28.2		29.7		8.1		77.7		5.1			24.9		31.9	
IM14	Cloudy	Calm	10:48	10.5	S	0.5	160.1	30.2	30.2	15.9	15.8	8.6	8.6	163.3	168.0	11.3	11.6	9.9	2.5	2.5	5.8	5.5
						0.7	208.1	30.2		15.8		8.6		172.6		11.9			2.5		5.1	
					M	1.3	132.7	29.5	29.5	18.0	18.0	8.2	8.2	117.7	118.0	8.1	8.1	9.9	2.8	2.5	3.2	3.0
						1.3	198.3	29.5		18.0		8.2		118.3		8.2			2.2		2.7	
					B	0.8	169.4	28.2	28.2	29.7	29.7	8.1	8.1	79.3	78.5	5.3	5.2	5.2	24.5	24.7	32.4	32.2
						0.8	137.4	28.2		29.7		8.1		77.7		5.1			24.9		31.9	

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
IM15	Cloudy	Calm	09:46	6.5	S	0.6	209.0	29.6	29.7	15.1	15.0	8.2	8.2	112.7	117.0	7.9	8.2	6.9	2.2	2.3	2.4	2.9	6.1
						0.3	267.7	29.8	29.7	14.9	15.0	8.3	8.2	121.2	117.0	8.5	8.2	6.9	2.4	2.3	3.4	2.9	
						0.9	215.6	28.9	28.9	22.5	22.2	8.0	8.0	82.8	81.0	5.6	5.5	5.1	3.5	3.7	7.0	7.5	
					0.9	215.6	28.8	28.9	21.9	22.2	8.0	8.0	79.3	81.0	5.4	5.5	5.1	3.8	3.7	8.0	7.5		
					0.4	236.5	28.1	28.1	28.2	28.2	8.0	8.0	79.4	76.1	5.3	5.1	5.1	5.6	5.9	7.4	7.9		
					0.3	169.5	28.1	28.1	28.2	28.2	8.0	8.0	72.8	76.1	4.9	5.1	5.1	6.1	5.9	8.3	7.9		
IM16A	Cloudy	Calm	09:21	7.5	S	0.1	306.4	30.0	30.0	12.9	13.0	8.2	8.2	110.5	111.2	7.8	7.8	6.3	4.3	4.3	4.3	4.8	7.3
						0.2	306.9	29.9	30.0	13.1	13.0	8.2	8.2	111.8	111.2	7.9	7.8	6.3	4.4	4.3	4.3	4.8	
						0.2	155.9	28.5	28.5	25.0	25.1	8.0	7.9	71.6	72.1	4.8	4.9	4.9	5.0	4.6	5.0	4.9	
					0.2	155.9	28.5	28.5	25.2	25.1	7.9	7.9	72.5	72.1	4.9	4.9	4.9	4.2	4.6	4.8	4.9		
					1.0	223.8	28.1	28.1	27.3	27.3	8.0	8.0	70.9	69.5	4.8	4.7	4.7	9.2	9.3	12.3	12.1		
					0.5	92.4	28.1	28.1	27.3	27.3	8.0	8.0	68.2	69.5	4.6	4.7	4.7	9.5	9.3	11.9	12.1		
IM17	Cloudy	Calm	08:19	5.5	S	0.5	147.7	29.9	29.9	12.9	13.3	8.1	8.1	99.7	100.7	7.0	7.1	7.1	4.9	5.5	4.2	4.3	4.2
						0.3	59.6	29.8	29.9	13.6	13.3	8.1	8.1	101.6	100.7	7.2	7.1	7.1	6.0	5.5	4.4	4.3	
						0.0	91.3	28.8	28.7	23.5	23.5	7.9	7.9	79.8	77.8	5.4	5.3	5.3	2.4	2.3	4.6	4.1	
					0.4	146.5	28.7	28.7	23.5	23.5	7.9	7.9	75.8	77.8	5.1	5.3	5.3	2.2	2.3	3.6	4.1		
					1.2	337.7	29.6	29.7	14.3	14.1	8.1	8.1	92.4	95.7	6.5	6.7	6.7	3.5	3.8	3.3	3.8		
					0.3	260.3	29.7	29.7	13.8	14.1	8.1	8.1	98.9	95.7	7.0	6.7	6.7	4.0	3.8	4.3	3.8		
IM18	Cloudy	Calm	08:31	17.5	M	0.3	175.9	28.5	28.5	26.5	26.6	7.9	7.9	69.9	70.3	4.7	4.7	5.7	2.1	2.0	4.5	4.0	5.7
						0.7	22.7	28.5	28.5	26.7	26.6	7.9	7.9	70.6	70.3	4.7	4.7	5.7	1.8	2.0	3.5	4.0	
						0.5	152.8	27.9	27.9	29.0	29.0	7.9	7.9	60.1	59.8	4.0	4.0	4.0	8.6	8.2	9.6	9.2	
					0.5	33.3	27.9	27.9	29.0	29.0	7.9	7.9	59.6	59.8	4.0	4.0	4.0	7.9	8.2	8.7	9.2		
					0.8	205.1	29.3	29.3	15.2	15.1	8.1	8.1	90.9	93.7	6.4	6.6	6.6	3.0	3.1	3.4	3.2		
					0.8	205.1	29.3	29.3	15.0	15.1	8.1	8.1	96.5	93.7	6.8	6.6	6.6	3.2	3.1	3.0	3.2		
IM19	Cloudy	Calm	08:00	18.0	M	0.9	149.1	28.2	28.2	27.4	27.4	7.9	7.9	62.8	62.7	4.2	4.2	5.4	3.2	3.1	5.7	5.8	8.0
						0.9	194.7	28.2	28.2	27.4	27.4	7.9	7.9	62.6	62.7	4.2	4.2	5.4	3.1	3.1	5.9	5.8	
						0.2	121.5	28.0	28.0	29.3	29.3	7.9	7.9	63.4	62.6	4.2	4.2	4.2	11.4	10.6	14.1	15.1	
					0.2	219.6	28.0	28.0	29.3	29.3	7.9	7.9	61.8	62.6	4.1	4.2	4.2	9.8	10.6	16.0	15.1		
					0.4	314.7	29.8	29.8	16.0	15.7	7.9	7.9	90.5	91.8	6.3	6.4	6.4	2.9	3.1	4.8	5.3		
					1.0	205.7	29.8	29.8	15.5	15.7	7.9	7.9	93.1	91.8	6.5	6.4	6.4	3.3	3.1	5.8	5.3		
IM20A	Cloudy	Calm	06:59	4.5	B	1.1	137.4	28.6	29.0	24.9	22.7	7.8	7.8	73.2	73.5	4.9	5.0	5.0	4.1	4.4	7.4	7.3	6.3
						0.5	352.4	29.4	29.0	20.6	22.7	7.8	7.8	73.8	73.5	5.0	5.0	5.0	4.7	4.4	7.2	7.3	
						1.2	138.2	29.9	29.9	16.3	16.3	7.9	7.9	93.0	93.1	6.5	6.4	6.4	2.8	2.7	5.3	5.1	
					1.2	138.2	29.9	29.9	16.4	16.3	7.9	7.9	93.1	93.1	6.4	6.4	6.4	2.6	2.7	4.8	5.1		
					0.3	300.1	30.0	30.0	18.0	18.9	7.9	7.9	93.6	92.4	6.4	6.3	6.3	3.6	4.0	7.2	6.8		
					0.2	111.5	30.0	30.0	19.7	18.9	7.9	7.9	91.3	92.4	6.2	6.3	6.3	4.4	4.0	6.3	6.8		
IM22A	Cloudy	Calm	07:18	5.0	S	0.5	355.5	29.8	29.7	16.5	16.3	8.0	8.0	92.2	93.5	6.4	6.5	6.5	2.6	2.6	5.1	4.8	6.5
						0.5	355.5	29.7	29.7	16.0	16.3	8.0	8.0	94.9	93.5	6.6	6.5	6.5	2.5	2.6	4.5	4.8	
						1.2	355.1	29.3	29.3	22.2	22.1	7.9	7.9	82.5	82.1	5.6	5.6	5.6	3.4	3.2	5.3	8.2	
					0.5	234.6	29.4	29.3	21.9	22.1	7.9	7.9	81.7	82.1	5.5	5.6	5.6	3.1	3.2	11.0	8.2		
					0.5	355.5	29.7	29.7	16.0	16.3	8.0	8.0	94.9	93.5	6.6	6.5	6.5	2.5	2.6	4.5	4.8		
					1.2	355.1	29.3	29.3	22.2	22.1	7.9	7.9	82.5	82.1	5.6	5.6	5.6	3.4	3.2	5.3	8.2		

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; S: 1 m above the seabed

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Flood

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)		Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
E1	Fine	Calm	14:36	8.4	S	0.2	245.0	28.8	28.8	27.0	27.0	8.1	8.1	105.6	104.9	7.0	7.0	6.5	4.2	4.2	4.9	4.6	5.4
						0.2	245.0	28.8	28.8	27.0	27.0	8.1	8.1	104.2	104.9	6.9	7.0	4.2	4.2	4.2	4.6		
						0.4	196.7	28.5	28.5	28.6	28.6	8.0	8.0	88.7	89.5	5.9	5.9	4.7	4.8	4.0	4.2		
					0.4	196.7	28.5	28.5	28.6	28.6	8.0	8.0	90.3	90.3	6.0	6.0	4.8	4.8	4.4	4.4	7.4		
					0.1	266.0	28.1	28.1	30.0	30.0	7.9	7.9	72.8	72.3	4.8	4.8	7.0	7.0	6.9	7.4			
					0.3	249.5	28.1	28.1	30.0	30.0	7.9	7.9	71.8	71.8	4.8	4.8	7.1	7.0	7.9	7.9			
E2	Fine	Calm	19:42	8.7	S	0.3	331.8	30.5	30.5	28.1	28.2	8.4	8.4	157.2	158.7	10.1	10.2	9.3	2.8	2.8	3.4	3.3	9.4
						0.5	4.1	30.4	30.4	28.4	28.4	8.4	8.4	160.2	160.2	10.3	10.2	2.9	2.9	3.2	3.2		
						0.4	355.9	28.9	28.9	29.8	29.8	8.3	8.3	126.7	127.6	8.3	8.3	4.1	3.9	4.4	4.6		
					0.1	234.0	28.9	28.9	29.8	29.8	8.3	8.3	128.5	128.5	8.4	8.3	3.8	3.8	4.8	4.8	20.3		
					0.3	250.8	27.8	27.8	31.0	31.0	7.8	7.8	30.7	29.1	2.0	1.9	17.9	17.5	20.3	20.3			
					0.1	215.8	27.8	27.8	31.0	31.0	7.9	7.8	27.5	29.1	1.8	1.9	17.1	17.5	20.2	20.2			
E3	Fine	Calm	18:43	16.4	S	0.2	268.2	29.5	29.4	20.3	20.4	8.4	8.4	132.2	131.7	9.0	9.0	7.1	5.2	5.2	4.1	4.5	23.9
						0.2	268.2	29.4	29.4	20.4	20.4	8.4	8.4	131.2	131.7	9.0	9.0	5.2	5.2	4.9	4.5		
						0.7	304.7	28.2	28.2	30.7	30.7	8.1	8.1	78.1	78.1	5.1	5.1	15.7	15.6	24.7	26.0		
					0.7	298.5	28.2	28.2	30.7	30.7	8.1	8.1	78.2	78.2	5.1	5.1	15.5	15.6	27.3	26.0	41.1		
					0.7	319.6	28.1	28.1	31.2	31.2	8.1	8.1	76.6	76.4	5.0	5.0	28.8	29.0	38.0	41.1			
					0.6	311.9	28.1	28.1	31.2	31.2	8.1	8.1	76.2	76.4	5.0	5.0	29.3	29.0	44.1	41.1			
E4	Cloudy	Calm	15:47	10.5	S	0.4	9.2	31.2	31.3	13.1	13.0	8.5	8.5	157.5	158.6	10.9	10.9	8.1	4.5	4.3	4.7	5.2	22.9
						0.1	60.7	31.4	31.3	12.8	13.0	8.5	8.5	159.7	158.6	11.0	10.9	4.1	4.3	5.7	5.2		
						0.7	356.2	28.4	28.4	26.5	26.7	8.0	8.0	78.4	78.5	5.3	5.3	8.9	8.4	9.5	9.7		
					0.0	341.6	28.4	28.4	26.8	26.7	8.0	8.0	78.7	78.5	5.3	5.3	8.0	8.4	9.8	9.7	53.7		
					0.8	20.9	28.1	28.1	29.9	29.9	8.0	8.0	74.2	73.2	4.9	4.8	28.2	28.8	56.8	53.7			
					0.7	56.3	28.1	28.1	29.9	29.9	8.0	8.0	72.2	73.2	4.8	4.8	29.4	28.8	50.6	53.7			
E5	Cloudy	Calm	16:53	5.5	S	1.0	13.6	29.8	29.8	17.6	17.7	8.1	8.1	114.2	114.0	7.9	7.9	7.9	3.9	3.8	4.2	4.7	11.1
						1.0	16.6	29.7	29.8	17.8	17.7	8.1	8.1	113.8	114.0	7.8	7.9	3.7	3.8	5.1	4.7		
						0.6	24.3	29.2	29.2	20.5	20.4	8.0	7.9	92.9	91.4	6.4	6.3	12.6	13.8	18.7	17.5		
					0.1	7.0	29.2	29.2	20.4	20.4	7.9	7.9	89.9	91.4	6.2	6.3	14.9	13.8	16.3	17.5	6.0		
					1.3	306.6	30.7	30.7	11.9	12.0	8.1	8.1	102.0	104.7	7.1	7.3	5.8	5.4	5.4	4.9			
					0.7	305.0	30.7	30.7	12.0	12.0	8.1	8.1	107.4	104.7	7.5	7.3	5.0	5.4	6.2	6.0			
E6	Cloudy	Calm	18:52	5.5	B	0.2	301.0	28.3	28.3	26.3	26.3	7.9	7.9	69.7	67.6	4.7	4.5	4.5	12.7	13.3	18.9	17.7	11.8
						0.4	256.0	28.3	28.3	26.3	26.3	7.9	7.9	65.5	67.6	4.4	4.5	13.9	13.3	16.4	17.7		
						0.5	335.2	30.6	30.6	11.9	11.8	8.1	8.1	100.5	103.3	7.1	7.2	5.6	5.5	5.4	4.9		
					0.5	335.2	30.6	30.6	11.8	11.8	8.1	8.1	106.1	103.3	7.4	7.2	5.4	5.5	4.4	4.9	9.6		
					0.3	136.6	28.7	28.7	26.4	26.0	7.8	7.8	76.8	73.4	5.1	4.9	6.4	6.6	9.5	9.6			
					0.7	278.7	28.7	28.7	25.6	26.0	7.9	7.8	69.9	73.4	4.7	4.9	6.7	6.6	9.7	9.6			
F1	Fine	Calm	15:25	19.8	S	0.1	145.5	29.5	29.4	28.3	28.3	8.4	8.4	180.0	182.0	11.8	11.9	8.3	3.5	3.5	3.7	4.2	8.3
						0.1	145.5	29.4	29.4	28.3	28.3	8.4	8.4	184.1	182.0	12.0	11.9	3.4	3.5	4.6	4.2		
						0.1	51.8	28.0	28.0	31.7	31.7	8.1	8.1	73.2	73.3	4.8	4.8	4.3	4.1	3.9	4.4		
					0.1	51.8	28.0	28.0	31.7	31.7	8.1	8.1	73.4	73.3	4.8	4.8	4.0	4.1	4.9	4.4	16.2		
					0.1	133.9	28.2	28.2	32.4	32.4	8.0	8.0	70.4	69.7	4.6	4.5	11.8	12.3	14.8	16.2			
					0.2	109.3	28.2	28.2	32.4	32.4	8.0	8.0	69.1	69.7	4.5	4.5	12.8	12.3	17.6	16.2			
F2	Fine	Calm	15:53	19.2	S	0.4	4.1	30.8	30.9	27.7	27.7	8.4	8.4	175.9	176.2	11.3	11.3	8.0	2.7	2.7	2.4	2.6	8.7
						0.1	296.1	31.0	30.9	27.6	27.7	8.4	8.4	176.4	176.2	11.3	11.3	2.6	2.7	2.7	2.6		
						0.2	330.8	28.2	28.1	31.8	31.8	8.1	8.1	72.6	72.8	4.8	4.8	5.0	4.8	3.1	3.6		
					0.2	286.9	28.1	28.1	31.8	31.8	8.1	8.1	73.1	72.8	4.8	4.8	4.6	4.8	4.1	3.6	20.0		
					0.3	316.6	28.2	28.2	32.4	32.4	8.1	8.1	70.3	70.1	4.6	4.6	17.3	15.5	21.5	20.0			
					0.3	316.6	28.2	28.2	32.4	32.4	8.1	8.1	70.0	70.1	4.6	4.6	13.7	15.5	18.5	20.0			

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Flood

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)		Suspended Solids (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
F3	Fine	Calm	17:10	17.2	S	0.1	221.0	29.4	29.4	27.3	27.2	8.3	8.3	150.3	151.1	9.9	9.9	7.7	2.8	2.7	1.8	2.3	7.5		
						0.2	271.3	29.5	29.4	27.1	27.2	8.3	8.3	151.9	151.1	10.0	9.9	7.7	2.7	2.7	2.8	2.3			
					M	0.4	17.0	28.2	28.2	31.5	31.5	8.1	8.1	81.8	82.4	5.4	5.4	4.6	4.6	4.1	4.3	4.3		4.1	16.2
						0.4	331.8	28.2	28.2	31.5	31.5	8.1	8.1	82.9	82.4	5.4	5.4	4.1	4.3	4.1	4.3	3.9		4.1	
					B	0.2	51.9	28.2	28.2	32.5	32.5	8.1	8.1	74.5	73.4	4.9	4.8	4.8	4.8	15.0	15.1	14.8		14.8	16.2
						0.2	51.9	28.2	28.2	32.5	32.5	8.1	8.1	73.4	73.4	4.8	4.8	4.8	4.8	15.2	15.1	17.5		17.5	
F4	Fine	Calm	19:17	13.2	S	0.8	298.9	29.6	29.6	28.2	28.3	8.3	8.3	140.5	141.8	9.2	9.2	6.6	3.4	3.3	2.9	3.4	14.6		
						0.8	298.9	29.6	29.6	28.3	28.3	8.3	8.3	143.0	141.8	9.3	9.2	6.6	3.3	3.3	3.8	3.8			
					M	0.3	243.9	28.0	28.0	30.9	30.9	8.1	8.1	61.0	61.1	4.0	4.0	3.2	3.2	10.0	10.1	7.3		7.8	32.6
						0.5	278.6	28.0	28.0	30.9	30.9	8.1	8.1	61.3	61.1	4.0	4.0	3.2	3.2	10.2	10.1	8.2		8.2	
					B	0.3	319.1	28.0	28.0	31.8	31.8	8.0	8.0	49.5	49.0	3.3	3.2	3.2	3.2	21.3	21.3	32.9		32.9	32.6
						0.3	270.9	28.0	28.0	31.8	31.8	8.0	8.0	48.4	49.0	3.2	3.2	3.2	3.2	21.4	21.3	32.3		32.3	
F5	Cloudy	Calm	16:18	5.5	S	0.4	45.9	30.1	30.2	18.5	18.3	8.2	8.2	129.0	131.6	8.8	9.0	9.0	5.4	5.1	5.3	4.9	7.3		
						0.4	45.9	30.3	30.2	18.2	18.3	8.2	8.2	134.1	131.6	9.1	9.0	9.0	9.0	5.4	5.1	4.4		4.9	
					B	0.9	345.8	28.2	28.2	28.4	28.4	8.0	8.0	73.6	77.0	4.9	5.1	5.1	5.1	13.5	13.4	10.0		9.7	
F6	Cloudy	Calm	17:31	13.5	S	0.5	42.3	28.2	28.2	28.4	28.4	8.0	8.0	80.4	80.4	5.4	5.4	8.5	3.7	3.7	6.3	5.8	7.4		
						0.5	92.6	30.2	30.3	16.8	16.5	8.2	8.2	127.1	130.1	8.7	8.9	8.5	3.7	3.7	5.3	5.8			
					M	1.7	287.7	29.4	29.6	23.5	22.2	8.0	8.1	111.5	118.6	7.5	8.0	8.0	8.0	4.1	3.7	5.0		5.0	5.2
						0.5	320.4	29.9	29.6	20.9	22.2	8.2	8.1	125.7	118.6	8.5	8.0	8.0	8.0	3.3	3.7	5.4		5.4	
					B	0.4	14.4	28.5	28.5	25.9	25.6	7.9	7.9	72.9	72.2	4.9	4.9	4.9	4.9	10.8	9.8	10.5		11.2	11.2
						0.5	272.9	28.6	28.5	25.4	25.6	7.9	7.9	71.5	72.2	4.8	4.9	4.9	4.9	8.8	9.8	11.8		11.8	
IM1	Fine	Calm	15:07	9.5	S	0.2	346.9	29.4	29.1	29.9	30.2	8.2	8.1	102.1	103.2	6.6	6.7	5.6	3.7	3.7	17.5	13.3	16.8		
						0.1	28.2	28.8	29.1	30.4	30.2	8.1	8.1	104.2	103.2	6.8	6.7	5.6	3.7	3.7	9.0	9.0			
					M	0.3	5.8	27.8	27.8	31.5	31.5	8.0	8.0	69.3	69.4	4.6	4.6	4.6	4.6	5.9	5.8	6.5		8.9	8.9
						0.5	330.5	27.8	27.8	31.5	31.5	8.0	8.0	69.5	69.4	4.6	4.6	4.6	4.6	5.6	5.8	11.3		11.3	
					B	0.3	49.5	27.9	27.9	31.7	31.7	8.0	8.0	70.3	69.7	4.6	4.6	4.6	4.6	19.8	20.5	28.6		28.2	28.2
						0.3	49.5	27.9	27.9	31.7	31.7	8.0	8.0	69.1	69.7	4.6	4.6	4.6	4.6	21.2	20.5	27.8		27.8	
IM2	Fine	Calm	14:48	11.0	S	0.4	244.2	29.2	29.2	26.9	26.9	8.2	8.2	124.0	124.1	8.2	8.2	6.2	3.6	3.6	7.7	7.2	14.2		
						0.4	244.2	29.2	29.2	26.8	26.9	8.2	8.2	124.2	124.1	8.2	8.2	6.2	3.6	3.6	6.7	6.7			
					M	0.5	229.0	28.3	28.3	29.5	29.7	8.1	8.1	63.6	63.7	4.2	4.2	4.2	4.2	12.5	11.2	15.4		15.8	15.8
						0.5	229.0	28.3	28.3	29.8	29.7	8.1	8.1	63.7	63.7	4.2	4.2	4.2	4.2	9.8	11.2	16.2		16.2	
					B	0.5	7.0	27.7	27.7	31.5	31.5	8.0	8.0	63.3	62.5	4.2	4.1	4.1	4.1	15.2	15.7	20.9		19.6	19.6
						0.5	7.0	27.7	27.7	31.5	31.5	8.0	8.0	61.6	62.5	4.1	4.1	4.1	4.1	16.1	15.7	18.3		18.3	
IM3	Fine	Calm	16:14	14.5	S	0.1	240.7	29.9	29.8	27.4	27.4	8.5	8.4	206.4	206.7	13.5	13.5	11.0	3.6	3.6	9.0	8.6	10.7		
						0.1	240.7	29.8	29.8	27.4	27.4	8.4	8.4	206.9	206.7	13.5	13.5	11.0	3.6	3.6	8.2	8.2			
					M	0.3	285.9	28.7	28.7	29.4	29.4	8.2	8.2	128.9	130.5	8.5	8.6	8.6	8.6	3.6	3.6	3.1		3.2	3.2
						0.3	285.9	28.7	28.7	29.4	29.4	8.2	8.2	132.1	130.5	8.7	8.6	8.6	8.6	3.6	3.6	3.3		3.3	
					B	0.4	69.4	27.9	27.9	32.0	32.0	8.0	8.0	53.2	52.0	3.5	3.4	3.4	3.4	17.6	17.4	20.4		20.2	20.2
						0.4	69.4	27.9	27.9	32.0	32.0	8.0	8.0	50.8	52.0	3.3	3.4	3.4	3.4	17.3	17.4	20.0		20.0	
IM4	Fine	Calm	16:35	16.0	S	0.4	216.0	30.9	30.9	27.8	27.8	8.4	8.4	161.9	162.7	10.4	10.4	8.0	2.8	2.7	3.7	3.2	8.4		
						0.4	252.4	30.8	30.9	27.8	27.8	8.4	8.4	163.6	162.7	10.5	10.5	8.0	2.7	2.7	2.7	2.7			
					M	0.4	243.7	28.4	28.4	30.7	30.7	8.1	8.1	80.5	84.4	5.3	5.5	5.5	5.5	6.2	5.9	6.3		6.0	6.0
						0.5	272.8	28.4	28.4	30.7	30.7	8.1	8.1	88.4	84.4	5.8	5.5	5.5	5.5	5.7	5.9	5.6		5.6	
					B	0.3	55.9	28.1	28.1	32.3	32.3	8.1	8.1	68.3	67.5	4.5	4.4	4.4	4.4	12.9	12.8	17.3		16.2	16.2
						0.3	55.9	28.1	28.1	32.3	32.3	8.1	8.1	66.6	67.5	4.4	4.4	4.4	4.4	12.8	12.8	15.0		15.0	
IM5	Fine	Calm	16:53	15.0	S	0.1	291.7	30.5	30.5	27.3	27.3	8.3	8.3	157.1	157.1	10.1	10.1	7.9	2.7	2.7	2.4	2.4	9.6		
						0.4	318.8	30.5	30.5	27.3	27.3	8.3	8.3	157.1	157.1	10.1	10.1	7.9	2.6	2.6	2.4	2.4			
					M	0.4	295.3	28.1	28.1	31.2	31.1	8.1	8.1	82.8	84.9	5.4	5.6	5.6	5.6	4.3	4.0	2.8		2.8	7.7
						0.1	334.2	28.1	28.1	31.0	31.1	8.1	8.1	87.1	84.9	5.7	5.6	5.6	5.6	3.7	4.0	12.6		12.6	
					B	0.1	300.7	28.1	28.1	32.1	32.1	8.1	8.1	69.5	68.8	4.5	4.5	4.5	4.5	11.9	12.2	19.6		18.8	18.8
						0.4	290.3	28.1	28.1	32.1	32.1	8.1	8.1	68.1	68.8	4.5	4.5	4.5	4.5	12.5	12.2	17.9		17.9	

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Flood

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)		Suspended Solids (mg/L)			
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM6	Fine	Calm	17:22	15.8	S	0.1	61.3	29.8	29.9	26.9	26.5	8.4	8.4	164.7	165.9	10.8	10.9	8.0	2.7	2.8	1.8	1.6	11.3		
						0.1	61.3	30.1	29.9	26.0	26.5	8.4	8.4	167.1	169.9	10.9	10.9	8.0	2.9	2.8	1.4	1.6			
						0.0	130.2	28.2	28.2	31.5	31.5	8.1	8.1	78.1	78.4	5.1	5.1	8.0	5.3	5.1	6.4	6.7			
					M	0.0	130.2	28.2	28.2	31.5	31.5	8.1	8.1	78.6	78.4	5.2	5.1	4.7	4.7	4.7	4.8	4.8		7.0	6.7
						0.2	219.2	28.2	28.2	32.4	32.4	8.1	8.1	72.4	71.9	4.7	4.7	4.7	18.1	18.8	26.5	25.7			
						0.2	219.2	28.2	28.2	32.4	32.4	8.1	8.1	71.4	71.9	4.7	4.7	4.7	19.6	18.8	24.9	25.7			
IM7	Fine	Calm	17:48	12.6	S	0.4	311.2	30.6	30.4	22.3	22.0	8.6	8.5	172.6	170.3	11.4	11.3	8.2	4.0	3.9	4.0	4.3	6.7		
						0.4	311.2	30.2	30.4	21.8	22.0	8.5	8.5	168.0	170.3	11.2	11.3	8.2	3.9	3.9	4.5	4.3			
						0.3	296.5	28.2	28.2	31.7	31.7	8.1	8.1	77.4	77.3	5.1	5.1	5.1	5.9	5.9	6.2	6.0			
					M	0.3	296.5	28.2	28.2	31.7	31.7	8.1	8.1	77.2	77.3	5.1	5.1	5.1	5.9	5.9	5.8	5.8		6.0	6.0
						0.2	53.8	28.2	28.2	32.2	32.2	8.1	8.1	78.0	77.5	5.1	5.1	5.1	8.3	8.4	10.2	9.7			
						0.0	68.2	28.2	28.2	32.2	32.2	8.1	8.1	77.0	77.5	5.0	5.1	5.1	8.5	8.4	9.2	9.7			
IM8	Fine	Calm	17:37	14.0	S	0.3	330.8	29.3	29.2	27.6	27.9	8.3	8.3	132.2	133.1	8.7	8.7	6.9	3.3	3.3	3.1	3.5	7.4		
						0.3	330.8	29.2	29.2	28.2	28.2	8.3	8.3	134.0	133.1	8.8	8.7	6.9	3.2	3.3	3.8	3.5			
						0.3	245.2	28.2	28.2	31.7	31.7	8.1	8.1	77.7	77.7	5.1	5.1	5.1	5.8	5.7	7.0	6.5			
					M	0.2	123.2	28.2	28.2	31.7	31.7	8.1	8.1	77.8	77.8	5.1	5.1	5.1	5.6	5.7	6.0	6.0			
						0.2	309.2	28.2	28.2	32.3	32.3	8.1	8.1	76.4	75.9	5.0	5.0	5.0	11.2	11.4	11.6	12.3			
						0.3	11.1	28.2	28.2	32.3	32.3	8.1	8.1	75.5	75.9	4.9	5.0	5.0	11.6	11.4	13.0	12.3			
IM9	Fine	Calm	18:09	14.5	S	0.4	314.5	30.6	30.6	16.8	16.8	8.8	8.8	217.9	214.6	14.9	14.6	9.9	5.7	5.7	5.7	5.8	12.1		
						0.4	314.5	30.6	30.6	16.8	16.8	8.8	8.8	211.2	214.6	14.4	14.6	9.9	5.7	5.7	6.0	5.8			
						0.4	320.5	28.2	28.2	31.5	31.5	8.1	8.1	79.8	79.8	5.2	5.2	5.1	6.1	6.2	5.2	4.7			
					M	0.4	334.9	28.2	28.2	31.5	31.5	8.1	8.1	79.8	79.8	5.2	5.2	5.1	6.4	6.2	4.2	4.7			
						0.3	311.2	28.2	28.2	32.2	32.2	8.1	8.1	76.8	76.3	5.0	5.0	5.0	17.3	17.0	24.0	25.9			
						0.3	270.4	28.2	28.2	32.2	32.2	8.1	8.1	75.9	76.3	5.0	5.0	5.0	16.8	17.0	27.7	25.9			
IM10	Cloudy	Calm	14:37	10.5	S	0.7	253.5	28.4	28.6	31.3	31.0	8.0	8.0	79.0	82.5	5.2	5.4	5.0	6.8	6.6	7.5	7.0	25.5		
						0.7	253.5	28.8	28.6	30.8	31.0	8.0	8.0	86.0	82.5	5.6	5.4	5.0	6.3	6.6	6.5	7.0			
						0.5	223.0	28.1	28.1	31.5	31.5	8.0	8.0	71.5	71.5	4.7	4.7	4.6	9.7	9.7	15.1	14.2			
					M	0.8	217.9	28.1	28.1	31.5	31.5	8.0	8.0	71.5	71.5	4.7	4.7	4.6	9.7	9.7	9.8	9.7			
						0.6	265.9	28.1	28.1	31.6	31.6	7.9	7.9	70.7	70.5	4.6	4.6	4.6	30.8	32.8	52.7	55.2			
						0.5	258.3	28.1	28.1	31.6	31.6	7.9	7.9	70.4	70.5	4.6	4.6	4.6	34.8	32.8	57.7	55.2			
IM11A	Cloudy	Calm	14:49	4.5	S	1.4	188.6	31.2	31.1	14.5	14.8	8.7	8.7	190.7	192.2	13.1	13.1	13.1	6.5	6.6	8.7	8.2	16.1		
						0.8	173.4	31.1	31.1	15.2	14.8	8.7	8.7	193.6	192.2	13.2	13.1	13.1	6.7	6.6	7.7	8.2			
						0.2	310.5	30.2	30.2	22.0	21.4	8.3	8.4	146.3	147.5	9.8	9.9	9.9	7.7	8.0	25.6	23.9			
					B	0.3	157.9	30.2	30.2	20.7	21.4	8.4	8.4	148.7	147.5	10.0	9.9	9.9	8.3	8.0	22.2	23.9			
						1.4	191.6	30.3	30.4	14.6	14.6	8.5	8.5	166.8	171.5	11.6	11.9	9.0	4.4	4.3	4.3	4.7			
						0.9	206.7	30.5	30.4	14.5	14.6	8.5	8.5	176.2	171.5	12.2	11.9	9.0	4.1	4.3	5.1	4.7			
IM12	Cloudy	Calm	14:59	12.0	S	0.3	88.6	28.6	28.6	26.7	26.7	8.1	8.1	92.8	92.9	6.2	6.2	9.0	10.9	10.3	15.7	17.3	48.0		
						0.6	250.6	28.6	28.6	26.8	26.7	8.1	8.1	93.0	92.9	6.2	6.2	9.0	9.8	10.3	18.9	17.3			
						1.6	5.8	28.2	28.2	31.5	31.4	8.0	8.0	73.5	73.2	4.8	4.8	4.8	57.0	64.5	113.0	122.0			
					M	1.1	312.0	28.2	28.2	31.2	31.4	8.0	8.0	73.0	73.2	4.8	4.8	4.8	71.4	64.5	131.0	122.0			
						0.4	123.4	31.3	31.3	11.8	11.7	8.4	8.4	144.5	146.3	10.0	10.1	7.5	4.2	4.1	6.8	7.3			
						0.4	123.4	31.4	31.4	11.5	11.7	8.4	8.4	148.1	146.3	10.3	10.1	7.5	4.1	4.1	7.8	7.3			
IM13	Cloudy	Calm	15:24	16.0	S	0.9	357.9	28.1	28.1	29.8	29.8	8.0	8.0	73.6	73.5	4.9	4.9	9.3	13.3	12.5	17.4	17.3	26.6		
						0.6	345.6	28.1	28.1	29.8	29.8	8.0	8.0	73.4	73.5	4.9	4.9	9.3	11.6	12.5	17.1	17.3			
						0.4	338.0	28.1	28.1	30.4	30.4	8.0	8.0	76.0	75.2	5.0	5.0	5.0	30.4	30.7	57.0	55.3			
					M	0.4	338.0	28.1	28.1	30.4	30.4	8.0	8.0	74.3	75.2	4.9	5.0	5.0	30.9	30.7	53.5	55.3			
						0.4	50.1	31.0	31.0	13.9	13.8	8.6	8.6	174.6	181.1	12.0	12.5	9.3	4.7	4.6	21.5	20.9			
						0.4	50.1	31.0	31.0	13.8	13.8	8.6	8.6	187.5	181.1	12.9	12.5	9.3	4.5	4.6	20.2	20.9			
IM14	Cloudy	Calm	15:36	10.0	S	0.9	160.3	29.2	29.0	21.1	22.8	8.1	8.1	90.2	90.5	6.2	6.1	9.3	17.3	16.0	15.4	16.2	42.3		
						0.7	234.5	28.8	28.8	24.6	22.8	8.1	8.1	90.8	90.5	6.1	6.1	9.3	14.7	16.0	17.0	16.2			
						0.4	354.3	28.1	28.1	30.0	30.0	8.0	8.0	77.1	75.0	5.1	5.0	5.0	56.0	56.8	86.4	89.7			
					M	1.0	16.2	28.1	28.1	30.0	30.0	8.0	8.0	72.9	75.0	4.8	5.0	5.0	57.5	56.8	93.0	89.7			
						0.4	50.1	31.0	31.0	13.9	13.8	8.6	8.6	174.6	181.1	12.0	12.5	9.3	4.7	4.6	21.5	20.9			
						0.4	50.1	31.0	31.0	13.8	13.8	8.6	8.6	187.5	181.1	12.9	12.5	9.3	4.5	4.6	20.2	20.9			

Water Quality Monitoring Data Log Sheet

Date: 2019/09/09

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average
IM15	Cloudy	Calm	16:41	5.5	S	0.1	301.2	30.8	30.7	16.6	16.4	8.5	8.5	175.1	173.6	11.9	11.8	11.8	4.9	5.0	5.9	6.2	7.6
						0.4	334.5	30.7	30.7	16.2	16.4	8.5	8.5	172.1	173.6	11.8	11.8	11.8	4.9	5.0	5.9	5.3	
						0.5	288.5	29.5	29.6	22.7	22.5	8.2	8.2	128.9	132.5	8.7	8.9	8.9	7.1	6.9	6.8	9.0	
						0.5	37.2	29.6	29.6	22.4	22.5	8.3	8.2	136.0	132.5	9.2	8.9	8.9	6.8	6.9	6.8	9.9	
						0.4	6.6	30.6	30.5	14.5	14.7	8.2	8.2	123.4	123.4	8.5	8.5	8.2	4.9	4.9	4.8	5.0	
IM16A	Cloudy	Calm	17:06	6.5	S	0.8	237.6	30.5	30.5	14.9	14.7	8.2	8.2	123.5	123.4	8.5	8.5	8.2	4.9	4.9	6.8	5.0	9.6
						0.4	35.2	29.9	29.9	17.6	17.6	8.1	8.1	113.5	114.8	7.8	7.9	8.2	4.7	4.7	4.7	6.0	
						1.0	131.6	29.9	29.9	17.5	17.6	8.1	8.1	116.0	114.8	8.0	7.9	8.2	4.7	4.7	4.7	6.7	
						0.5	242.8	28.8	28.8	23.4	23.4	7.9	7.9	79.1	77.0	5.4	5.2	5.2	10.2	10.8	10.2	15.8	
						0.5	242.8	28.8	28.8	23.4	23.4	7.9	7.9	74.9	77.0	5.1	5.2	5.2	11.5	10.8	11.5	17.2	
IM17	Cloudy	Calm	18:09	4.5	S	0.9	307.0	30.6	30.6	14.5	15.1	8.2	8.2	125.3	128.1	8.7	8.8	8.8	4.6	4.4	4.9	4.5	4.0
						0.9	307.0	30.5	30.6	15.6	15.1	8.2	8.2	130.9	128.1	9.0	8.8	8.8	4.2	4.4	4.9	4.1	
						0.7	346.7	29.5	29.5	18.9	18.4	7.9	7.9	92.6	91.8	6.4	6.3	6.3	5.9	5.4	5.9	3.3	
						1.2	337.5	29.5	29.5	18.0	18.4	7.9	7.9	90.9	91.8	6.3	6.3	6.3	4.9	5.4	4.9	4.2	
						0.2	200.8	30.6	30.5	14.2	14.4	8.2	8.1	119.3	119.6	8.3	8.3	6.4	4.8	5.2	4.8	5.7	
IM18	Cloudy	Calm	17:57	16.5	M	0.7	292.6	28.5	28.5	25.7	25.8	7.8	7.8	66.4	66.1	4.5	4.4	4.4	6.6	7.0	7.2	7.7	9.2
						0.7	292.6	28.4	28.5	25.9	25.8	7.8	7.8	65.9	66.1	4.4	4.4	4.4	7.4	7.0	7.2	8.3	
						0.5	320.4	28.3	28.3	27.7	27.5	7.9	7.9	65.0	65.2	4.3	4.4	4.4	9.8	9.4	9.8	13.6	
						0.9	351.1	28.4	28.3	27.4	27.5	7.9	7.9	65.4	65.2	4.4	4.4	4.4	8.9	9.4	8.9	14.2	
						0.5	333.0	30.4	30.5	16.9	16.5	8.2	8.2	119.3	123.7	8.2	8.5	6.6	3.4	3.5	3.4	3.5	
IM19	Cloudy	Calm	18:32	17.5	S	0.5	333.0	30.6	30.5	16.1	16.5	8.2	8.2	128.2	123.7	8.8	8.5	6.6	3.7	3.5	7.5	3.7	11.2
						1.5	283.1	28.6	28.6	25.9	25.8	7.9	7.9	69.4	69.4	4.7	4.7	4.7	3.5	3.1	3.5	6.2	
						0.3	318.6	28.5	28.6	25.8	25.8	7.9	7.9	69.5	69.4	4.7	4.7	4.7	2.7	3.1	2.7	5.2	
						0.4	88.9	28.0	28.0	28.9	28.9	7.9	7.9	62.3	61.3	4.2	4.1	4.1	15.6	16.0	15.6	23.4	
						0.2	340.8	28.0	28.0	29.0	28.9	7.9	7.9	60.4	61.3	4.0	4.1	4.1	16.4	16.0	16.4	25.1	
IM20A	Cloudy	Calm	19:29	4.0	S	0.9	282.1	30.6	30.8	17.3	16.4	8.0	8.1	93.0	102.5	6.3	7.0	7.0	6.2	6.0	6.2	13.2	11.0
						0.2	113.4	31.0	30.8	15.6	16.4	8.1	8.1	111.9	102.5	7.6	7.0	7.0	5.7	6.0	5.7	11.3	
						0.3	315.4	29.4	29.3	24.5	24.7	7.9	7.9	83.0	80.6	5.5	5.4	5.4	6.4	6.4	6.4	10.1	
						0.5	55.1	29.2	29.3	24.9	24.7	7.9	7.9	78.1	80.6	5.2	5.4	5.4	6.4	6.4	6.4	9.5	
						1.1	97.5	31.1	31.1	18.5	18.3	8.0	8.0	101.5	102.0	6.8	6.9	6.9	7.1	6.9	7.1	9.1	
IM21A	Cloudy	Calm	19:20	4.5	S	1.1	97.5	31.1	31.1	18.1	18.3	8.0	8.0	102.6	102.0	6.9	6.9	6.9	6.8	6.9	10.0	6.8	12.5
						0.6	233.5	29.0	28.9	26.0	26.2	7.8	7.8	72.6	70.4	4.8	4.7	4.7	12.1	13.1	12.1	15.2	
						0.5	132.4	28.8	28.9	26.3	26.2	7.8	7.8	68.2	70.4	4.6	4.7	4.7	14.0	13.1	14.0	17.3	
						0.5	197.8	29.9	30.0	20.6	20.3	7.9	8.0	83.7	89.2	5.7	6.0	6.0	7.0	6.6	7.0	8.7	
						0.5	197.8	30.2	30.0	20.1	20.3	8.0	8.0	94.7	89.2	6.4	6.0	6.0	6.3	6.6	6.3	9.7	
IM22A	Cloudy	Calm	19:14	4.5	B	0.5	68.0	28.8	28.7	25.6	26.0	7.8	7.8	73.1	70.4	4.9	4.7	4.7	8.2	8.2	7.4	13.5	10.9
						1.1	22.9	28.6	28.7	26.3	26.0	7.8	7.8	67.7	70.4	4.5	4.7	4.7	8.3	8.2	8.3	11.8	
						0.5	197.8	29.9	30.0	20.6	20.3	7.9	8.0	83.7	89.2	5.7	6.0	6.0	7.0	6.6	7.0	8.7	

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/11

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Calm	13:39	8.1	S	0.6	165.4	29.7	29.7	27.9	27.9	8.3	8.3	141.6	141.8	9.2	9.2	8.5	3.6	3.6	11.1	5.1	5.6	15.0
						0.6	165.4	29.7		27.9		8.3		141.9		9.3			3.6			6.0		
						0.2	251.6	29.0		28.5		28.5		8.2		118.1			7.8			4.1		
					M	0.2	157.9	29.0	28.5	28.5	8.2	118.5	7.8	3.8	7.0									
						0.3	193.7	28.5	28.5	30.0	8.1	78.4	5.2	26.8	30.8									
						0.5	183.5	28.5	30.0	8.1	77.9	5.1	24.9	34.6										
B	0.1	121.2	29.7	24.4	30.0	8.4	126.7	8.4	2.2	2.7														
	0.1	121.2	29.7	24.4	24.4	8.4	126.1	8.4	2.1	3.7														
	0.3	116.6	30.0	26.4	26.4	8.3	142.8	9.3	2.6	8.0														
E2	Fine	Calm	08:17	9.5	S	0.3	37.9	30.0	30.0	26.4	26.4	8.3	8.3	145.9	144.4	9.5	9.4	8.9	2.4	2.5	7.7	7.0	7.5	11.1
						0.6	346.6	28.4		30.3		7.7		32.6		2.1			20.0			24.2		
						0.6	55.8	28.4		30.2		7.7		38.7		2.5			17.0			21.0		
					M	0.1	121.2	29.7	24.4	30.0	8.4	126.7	8.4	2.2	2.7									
						0.1	121.2	29.7	24.4	24.4	8.4	126.1	8.4	2.1	3.7									
						0.3	116.6	30.0	26.4	26.4	8.3	142.8	9.3	2.6	8.0									
B	0.6	346.6	28.4	30.3	30.2	7.7	32.6	2.1	20.0	24.2														
	0.6	55.8	28.4	30.2	7.7	38.7	2.5	17.0	21.0															
	0.2	90.0	29.5	29.5	24.3	8.4	119.8	8.0	3.4	8.7														
E3	Fine	Calm	09:38	17.0	S	0.2	90.0	29.5	29.5	23.9	24.3	8.4	8.4	125.3	122.6	8.4	8.2	6.4	2.9	3.1	11.2	7.6	8.2	16.2
						0.2	90.0	29.5		23.9		8.4		119.8		8.4			3.4			7.6		
						0.3	110.2	28.3		30.7		8.1		69.0		4.5			10.9			15.9		
					M	0.3	110.2	28.3	30.7	8.1	69.2	4.5	11.1	14.1										
						0.5	137.5	28.1	32.0	8.1	60.7	4.0	19.5	25.6										
						0.5	155.9	28.1	32.0	8.1	60.6	4.0	19.7	25.5										
B	0.6	242.8	29.6	29.6	21.9	8.4	130.2	8.8	3.8	19.9														
	0.6	242.8	29.6	22.0	21.9	8.4	149.2	10.1	3.4	19.3														
	0.8	184.1	28.7	27.4	27.5	8.1	80.4	5.3	8.4	28.7														
E4	Cloudy	Calm	12:03	11.0	S	0.7	329.0	28.7	28.7	27.6	27.5	8.1	8.1	80.4	80.4	5.3	5.3	7.4	7.6	8.0	22.5	33.2	31.0	45.3
						0.6	218.5	28.4		29.8		8.0		71.5		4.7			53.6			87.4		
						0.8	208.4	28.4		29.8		8.0		70.2		4.6			58.5			83.2		
					M	0.7	189.0	30.1	29.9	18.7	8.4	141.0	9.6	3.8	8.3									
						0.3	166.3	29.8	19.1	18.7	8.3	146.5	10.0	3.7	7.3									
						0.7	191.9	29.1	23.5	23.6	8.1	96.1	6.5	5.1	9.0									
B	1.0	129.0	29.1	29.1	23.8	8.1	96.9	6.5	4.4	9.4														
	0.2	31.1	28.7	28.7	26.6	8.0	80.3	5.4	11.4	15.6														
	0.4	180.5	28.7	26.4	26.5	8.0	77.2	5.2	10.6	17.7														
E5	Cloudy	Calm	10:59	6.0	S	0.7	117.9	29.4	29.4	20.2	20.1	8.3	8.3	123.8	125.1	8.5	8.5	8.2	4.9	4.7	6.5	11.3	10.8	11.2
						0.7	117.9	29.4		20.1		8.3		126.3		8.6			4.5			10.3		
						0.2	85.4	29.4		20.8		8.2		114.6		7.8			7.1			13.4		
					M	0.4	157.3	29.4	20.8	8.2	115.3	7.9	7.1	14.8										
						0.3	156.2	29.1	25.2	25.0	8.0	94.0	6.3	4.0	10.8									
						0.7	83.6	29.2	24.7	25.0	8.0	90.1	6.0	4.0	9.9									
B	0.7	205.3	29.7	20.8	20.6	8.1	103.9	7.0	3.0	5.6														
	0.7	205.3	29.7	20.3	20.6	8.1	109.5	7.4	2.5	6.5														
	0.2	285.8	28.9	26.1	26.1	8.0	86.8	5.8	6.4	13.4														
E6	Cloudy	Calm	09:07	6.5	S	0.7	117.9	29.4	29.4	20.2	20.1	8.3	8.3	123.8	125.1	8.5	8.5	8.2	4.9	4.7	5.2	11.3	10.8	11.8
						0.7	117.9	29.4		20.1		8.3		126.3		8.6			4.5			10.3		
						0.2	85.4	29.4		20.8		8.2		114.6		7.8			7.1			13.4		
					M	0.4	157.3	29.4	20.8	8.2	115.3	7.9	7.1	14.8										
						0.3	156.2	29.1	25.2	25.0	8.0	94.0	6.3	4.0	10.8									
						0.7	83.6	29.2	24.7	25.0	8.0	90.1	6.0	4.0	9.9									
B	0.7	205.3	29.7	20.8	20.6	8.1	103.9	7.0	3.0	5.6														
	0.7	205.3	29.7	20.3	20.6	8.1	109.5	7.4	2.5	6.5														
	0.2	285.8	28.9	26.1	26.1	8.0	86.8	5.8	6.4	13.4														
E7A	Cloudy	Calm	08:18	5.5	S	0.4	167.3	30.1	30.1	27.1	27.1	8.5	8.5	156.3	156.9	10.2	10.2	7.1	2.4	2.4	6.4	1.8	1.5	7.5
						0.4	167.3	30.1		27.1		8.5		157.5		10.2			2.4			1.2		
						0.4	130.4	28.2		30.8		8.1		61.3		4.0			3.2			3.9		
					M	0.4	81.0	28.2	30.7	8.0	63.2	4.2	3.0	3.7										
						0.1	101.0	28.1	32.3	32.3	8.0	52.9	3.5	14.1	18.4									
						0.1	101.0	28.1	32.3	32.3	8.0	51.8	3.4	13.5	15.9									
B	0.3	115.1	29.9	27.0	27.0	8.4	139.4	9.1	2.3	0.5														
	0.3	115.1	29.9	27.0	27.0	8.4	139.9	9.1	2.3	0.5														
	0.3	102.1	28.3	30.7	30.7	8.1	85.0	5.6	2.9	1.8														
F1	Fine	Calm	12:48	19.6	S	0.3	115.1	29.9	29.9	27.0	27.0	8.4	8.4	139.4	139.7	9.1	9.1	7.4	2.3	2.3	5.2	0.5	0.5	5.6
						0.3	115.1	29.9		27.0		8.4		139.9		9.1			2.3			0.5		
						0.3	102.1	28.3		30.7		8.1		85.0		5.6			2.9			1.8		
					M	0.3	102.1	28.3	30.7	30.7	8.1	90.5	5.9	2.6	1.9									
						0.1	101.0	28.1	32.3	32.3	8.0	51.8	3.4	13.5	15.9									
						0.1	101.0	28.1	32.3	32.3	8.0	51.3	3.4	10.0	15.1									
B	0.3	124.3	28.2	32.3	32.3	8.0	51.3	3.4	10.0	15.1														
	0.5	76.9	28.2	32.4	32.3	8.0	50.1	3.3	11.1	13.5														

Water Quality Monitoring Data Log Sheet

Date: 2019/09/11

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)							
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*				
F3	Fine	Calm	11:00	17.5	S	0.3	127.7	29.8	29.8	24.6	24.6	8.5	8.5	125.3	125.9	8.3	8.4	6.7	2.2	2.2	6.0	2.4	2.0	5.9				
						0.3	127.7	29.8		24.6		8.5		126.5		8.4			2.2			1.6						
					M	0.3	96.6	28.2	28.2	31.5	31.5	8.1	8.1	74.8	76.3	4.9	5.0		3.6			3.2			2.8	2.0		
						0.4	104.2	28.2		31.5		8.1		77.7		5.1			2.8						3.0			
					B	0.2	111.9	28.2	28.2	32.5	32.5	8.1	8.1	62.2	61.2	4.1	4.0		4.0			4.0			12.1	12.6	2.3	13.5
						0.2	111.9	28.2		32.5		8.1		60.2		3.9			13.2						13.0			
F4	Fine	Calm	08:42	14.0	S	0.1	211.4	29.8	29.8	24.3	24.1	8.4	8.4	134.6	132.2	8.9	8.8	7.1	2.2	2.2	6.5	0.5	0.5	7.1				
						0.1	195.6	29.7		23.9		8.5		129.8		8.6			2.2			0.5						
					M	0.2	110.9	28.5	28.6	30.6	30.5	8.1	8.1	80.2	83.2	5.3	5.4		7.1			4.2			4.5	4.2		
						0.2	110.9	28.6		30.3		8.1		86.2		5.6			3.8						4.3			
					B	0.0	208.5	28.2	28.2	31.1	31.1	7.9	7.9	54.5	53.3	3.6	3.5		3.5			13.2			12.6	17.3	16.5	
						0.3	130.1	28.2		31.1		7.9		52.1		3.4			13.8						15.6			
F5	Cloudy	Calm	11:35	5.5	S	1.4	208.0	29.8	29.8	22.9	23.0	8.3	8.3	135.2	134.9	9.0	9.0	9.0	1.8	1.7	5.8	1.8	2.4	8.1				
						1.4	208.0	29.7		23.0		8.3		134.7		9.0			1.6			2.9						
					B	0.4	265.1	28.7	28.7	27.5	27.5	8.1	8.1	84.9	83.2	5.6	5.5		5.5			9.8			9.6	14.8		
						0.3	279.3	28.7		27.5		8.1		81.4		5.4			10.0						13.0			
F6	Cloudy	Calm	10:23	14.5	S	0.4	185.8	30.0	30.1	20.3	20.2	8.3	8.4	135.2	141.4	9.1	9.6	7.9	2.8	2.5	10.2	5.2	5.7	15.2				
						0.7	84.5	30.1		20.2		8.4		147.6		10.0			2.2			6.2						
					M	0.4	109.2	29.1	29.1	23.9	23.9	8.1	8.1	93.3	93.8	6.3	6.3		7.9			5.5			5.5	8.1	7.8	
						0.6	123.0	29.1		23.9		8.1		94.3		6.3			5.5						7.5			
					B	0.4	118.1	28.6	28.6	28.7	28.7	8.0	8.0	76.8	76.0	5.1	5.0		5.0			22.5			21.8	33.9	32.1	
						0.5	151.6	28.6		28.7		8.0		75.2		5.0			23.2						30.3			
IM1	Fine	Calm	13:06	9.4	S	0.3	142.8	30.8	30.8	29.2	29.2	8.3	8.3	130.0	130.5	8.3	8.3	7.3	3.4	3.4	4.8	5.2	5.7	7.6				
						0.3	142.8	30.9		29.2		8.3		130.9		8.3			3.4			6.1						
					M	0.2	313.6	28.9	28.9	30.7	30.7	8.2	8.2	97.6	97.9	6.3	6.4		7.3			5.0			5.1	6.8		
						0.2	313.6	29.0		30.7		8.2		98.1		6.4			5.0						7.8			
					B	0.3	309.8	28.3	28.3	31.6	31.6	8.1	8.1	76.3	75.9	5.0	5.0		5.0			5.9			5.9	9.5	10.0	
						0.3	309.8	28.3		31.6		8.1		75.5		4.9			5.9						10.4			
IM2	Fine	Calm	13:27	11.0	S	1.0	206.2	29.5	29.5	28.0	28.0	8.4	8.4	144.1	144.5	9.4	9.4	8.2	3.6	3.6	8.3	6.0	5.6	12.0				
						1.0	206.2	29.5		28.0		8.4		144.9		9.5			3.5			5.1						
					M	0.3	209.6	28.8	28.8	28.9	28.9	8.2	8.2	104.8	105.2	6.9	6.9		8.2			4.6			4.7	7.0		
						0.3	209.6	28.8		28.9		8.2		105.5		6.9			4.5						7.9			
					B	0.3	212.5	28.3	28.3	30.8	30.8	8.1	8.1	65.8	65.3	4.3	4.3		4.3			16.7			15.9	24.8	23.0	
						0.3	212.5	28.3		30.8		8.1		64.7		4.2			17.5						21.1			
IM3	Fine	Calm	11:56	14.6	S	0.2	132.8	30.3	30.1	25.7	26.1	8.4	8.4	134.8	135.1	8.8	8.8	6.8	2.6	2.6	5.6	5.3	4.8	8.4				
						0.2	132.8	29.9		26.4		8.4		135.4		8.9			2.6			4.3						
					M	0.3	114.8	28.3	28.3	31.1	31.1	8.1	8.1	72.1	72.6	4.7	4.8		6.8			3.3			3.4	5.1		
						0.3	114.8	28.3		31.2		8.1		73.0		4.8			3.2						6.0			
					B	0.1	320.5	28.0	28.0	32.0	32.0	8.0	8.0	41.4	40.8	2.7	2.7		2.7			10.9			11.3	13.7	14.8	
						0.3	69.8	28.0		32.0		8.0		40.2		2.6			10.6						15.9			
IM4	Fine	Calm	11:35	16.4	S	0.5	143.5	30.1	30.1	25.6	25.6	8.5	8.5	137.0	137.1	9.0	9.0	7.1	2.3	2.3	8.7	3.0	3.5	12.2				
						0.3	62.5	30.1		25.6		8.5		137.3		9.0			2.3			4.0						
					M	0.5	140.6	28.6	28.6	30.1	30.1	8.1	8.1	78.8	79.9	5.2	5.2		7.1			5.8			5.9	9.4		
						0.4	42.8	28.6		30.1		8.1		80.9		5.3			5.7						10.4			
					B	0.3	84.8	28.1	28.1	31.8	31.8	8.0	8.0	50.1	49.2	3.3	3.2		3.2			17.8			17.1	22.6	23.3	
						0.4	3.2	28.1		31.9		8.0		48.4		3.2			18.5						24.0			
IM5	Fine	Calm	11:18	15.0	S	0.3	129.6	30.1	30.1	24.8	24.8	8.5	8.5	130.8	130.1	8.6	8.6	7.4	2.2	2.2	7.3	3.8	3.4	11.9				
						0.2	112.9	30.1		24.8		8.5		129.4		8.5			2.1			3.0						
					M	0.2	116.4	28.6	28.7	30.4	30.4	8.2	8.2	89.4	96.8	5.8	6.3		7.4			3.5			3.8	5.5		
						0.2	116.4	28.7		30.3		8.2		104.2		6.8			3.2						6.5			
					B	0.4	111.5	28.2	28.2	32.0	32.0	8.1	8.1	59.7	58.9	3.9	3.8		3.8			16.3			16.0	27.6	26.2	
						0.4	111.5	28.2		32.0		8.1		58.0		3.8			16.7						24.7			

Water Quality Monitoring Data Log Sheet

Date: 2019/09/11

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)				
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
IM15	Cloudy	Calm	11:12	6.5	S	0.2	224.3	29.9	29.8	18.9	19.4	8.4	8.4	88.5	88.3	6.0	6.0	5.9	4.3	4.1	6.4	6.9	6.4	8.9	
						0.7	132.7	29.8		19.9		8.4		88.0		6.0			3.9			5.9			
						0.4	183.8	28.9		25.8		8.1		85.3		5.7			5.4			7.7			
					M	0.4	170.9	28.9	25.7	25.8	8.1	8.1	87.3	86.3	5.8	5.8	5.9	4.7	5.1	6.4	4.7	5.1	7.7	7.3	8.9
						0.2	245.2	28.6	27.3	27.3	8.0	8.0	82.1	80.3	5.5	5.3	5.3	9.8	10.1	6.4	9.8	10.1	14.0	13.1	
						0.4	105.2	28.6	27.3	27.3	8.0	8.0	78.5	80.3	5.2	5.3	5.3	10.4	10.1	6.4	10.4	10.1	12.2	13.1	
IM16A	Cloudy	Calm	10:47	7.5	S	1.2	162.2	30.3	30.3	17.3	17.3	8.4	8.4	146.2	148.5	10.0	10.2	8.1	3.4	3.3	8.9	9.2	9.1	10.9	
						1.2	162.2	30.3		17.3		8.4		150.8		10.3			3.2			9.0			
						0.5	240.5	29.1		23.8		23.8		8.1		8.1			87.5			88.6			5.9
					M	0.5	211.7	29.1	23.8	23.8	8.1	8.1	89.7	88.6	6.0	6.0	8.1	6.9	7.4	8.6	9.1	10.9			
						0.4	159.5	28.7	26.2	26.2	8.0	8.0	78.2	76.8	5.2	5.1	5.1	14.8	15.9	10.2	14.4	14.4			
						0.3	133.9	28.7	26.2	26.2	8.0	8.0	75.5	76.8	5.1	5.1	5.1	17.0	15.9	15.9	17.0	15.9			
IM17	Cloudy	Calm	09:48	5.5	S	1.1	57.8	29.6	29.6	17.5	17.5	8.2	8.2	116.5	119.8	8.1	8.3	8.3	3.6	3.4	5.0	6.6	7.1	8.5	
						1.1	57.8	29.5		17.6		8.2		123.2		8.5			3.2			7.5			
					B	0.3	63.9	29.2	23.0	23.1	8.1	8.1	96.6	95.5	6.5	6.4	6.4	6.3	6.6	9.5	10.0	10.0			
						0.4	108.6	29.2	23.1	23.1	8.1	8.1	94.4	95.5	6.4	6.4	6.4	6.9	6.6	10.4	10.0				
IM18	Cloudy	Calm	09:58	17.5	S	0.4	90.4	29.6	29.6	18.4	18.3	8.3	8.3	123.5	131.3	8.5	9.0	7.8	3.4	3.3	7.2	6.8	6.4	12.0	
						0.4	90.4	29.6		18.1		8.3		139.1		9.6			3.2			5.9			
					M	0.4	211.2	29.3	24.0	24.2	8.1	8.1	97.9	97.8	6.6	6.6	7.8	2.9	2.6	7.2	6.6	7.1	7.1		
						0.6	96.3	29.2	24.4	24.2	8.1	8.1	97.8	97.8	6.6	6.6	7.8	2.4	2.6	7.2	7.5	7.1			
					B	0.2	192.7	28.5	28.7	28.7	8.0	8.0	67.4	67.1	4.5	4.4	4.4	15.7	15.8	7.2	20.9	22.5	22.5		
						0.1	210.5	28.5	28.8	28.7	8.0	8.0	66.8	67.1	4.4	4.4	4.4	15.8	15.8	7.2	24.1	22.5	22.5		
IM19	Cloudy	Calm	09:29	18.0	S	0.8	203.2	29.9	29.9	21.8	21.8	8.2	8.2	109.7	112.4	7.4	7.6	6.6	5.5	5.3	15.3	8.7	8.2	20.5	
						0.8	203.2	29.9		21.8		8.2		115.0		7.7			5.0			7.7			
					M	0.5	134.3	29.3	25.0	25.0	8.0	8.0	84.8	85.1	5.7	5.7	5.7	8.4	8.2	15.3	11.3	11.5	11.5		
						1.0	198.8	29.3	25.1	25.0	8.0	8.0	85.4	85.1	5.7	5.7	5.7	8.0	8.2	15.3	11.7	11.5			
					B	0.3	164.0	28.7	28.5	28.5	8.0	8.0	71.5	70.9	4.7	4.7	4.7	31.1	32.3	15.3	38.6	41.7	41.7		
						0.4	151.6	28.7	28.5	28.5	8.0	8.0	70.4	70.9	4.7	4.7	4.7	33.5	32.3	15.3	44.7	41.7	41.7		
IM20A	Cloudy	Calm	08:32	5.0	S	0.6	225.5	29.9	29.9	19.5	19.5	8.1	8.1	110.8	111.7	7.5	7.6	7.6	3.8	3.7	5.8	8.8	8.3	11.1	
						0.6	225.5	29.9		19.5		8.1		112.7		7.7			3.6			7.8			
					B	0.3	161.0	29.1	25.6	25.5	8.0	8.0	82.8	82.2	5.5	5.5	5.5	7.8	7.8	5.8	13.4	14.0	14.0		
						0.5	227.4	29.1	25.4	25.5	8.0	8.0	81.6	82.2	5.5	5.5	5.5	7.8	7.8	5.8	14.5	14.0	14.0		
IM21A	Cloudy	Calm	08:41	5.5	S	0.2	213.6	29.5	29.5	22.9	22.8	8.1	8.1	101.0	99.1	6.8	6.7	6.7	9.6	10.2	13.4	10.2	9.8	16.5	
						0.4	343.8	29.5		22.8		8.1		97.3		6.6			10.8			9.4			
					B	0.1	85.7	28.9	26.3	26.3	7.9	7.9	78.9	77.8	5.3	5.2	5.2	16.2	16.6	13.4	23.3	23.3			
						0.1	85.7	28.9	26.3	26.3	7.9	7.9	76.8	77.8	5.1	5.2	5.2	17.0	16.6	13.4	23.2	23.3			
IM22A	Cloudy	Calm	08:48	5.0	S	1.0	196.6	30.5	30.4	24.2	23.7	8.0	8.0	95.6	95.0	6.3	6.3	6.3	15.1	14.7	15.0	23.5	21.9	22.4	
						1.0	196.6	30.2		23.3		23.7		8.1		8.0			94.4			95.0			6.3
					B	0.3	247.7	30.3	24.3	24.5	8.0	8.0	92.9	92.0	6.1	6.1	6.1	15.2	15.2	15.0	24.4	22.8	22.8		
						0.3	247.7	30.0	24.7	24.5	8.0	8.0	91.1	92.0	6.0	6.1	6.1	15.3	15.2	15.0	21.2	22.8	22.8		

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/11

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Calm	15:52	8.0	S	0.5	179.4	29.3	29.3	27.0	26.9	8.2	8.2	110.7	111.7	7.3	7.4	6.9	4.0	3.7	9.2	4.0	4.2	13.7
						0.7	180.0	29.3		26.9		8.2		112.8		7.4			3.4					
						0.6	201.3	29.0	28.0	8.1	98.0	6.5	9.1											
					M	0.6	181.3	29.0	28.0	28.0	8.1	99.3	6.6	8.5	8.8	14.3								
						0.5	228.6	28.9	28.8	28.8	8.1	91.0	6.0	15.1	13.2									
						0.5	228.6	28.9	28.8	28.8	8.1	90.8	6.0	14.9	22.2									
B	0.2	281.0	30.7	28.9	25.7	28.8	8.5	8.1	137.1	90.9	8.9	6.0	6.0	5.2	15.0	1.3								
	0.2	231.8	30.7		25.7		8.5		136.9		8.9			5.2										
	0.1	124.9	30.6	25.9	8.5	136.7	8.9	0.5																
E2	Fine	Calm	20:57	8.7	S	0.2	298.4	30.7	30.6	25.9	25.9	8.5	8.5	137.4	137.1	8.9	8.9	8.9	5.2	0.5	6.8	1.0	1.2	5.3
						0.3	298.4	30.7		25.9		8.5		137.4		8.9			1.4					
						0.4	337.7	29.0	29.3	8.2	87.6	5.7	12.6											
					M	0.2	221.5	29.1	29.1	29.3	29.3	8.2	8.2	85.4	86.5	5.6	5.7	5.7	14.7	14.8	14.8			
						0.2	221.5	29.1		29.3		8.2		85.4		5.6			14.8					
						0.4	337.7	29.0	29.3	8.2	87.6	5.7	12.6											
E3	Fine	Calm	19:53	16.4	S	0.3	307.8	29.5	29.5	21.0	20.8	8.4	8.4	129.4	128.4	8.8	8.7	7.6	2.6	2.6	9.6	5.3	4.9	14.9
						0.3	307.8	29.5		20.6		8.4		127.5		8.7			2.6					
						0.7	293.5	29.3	29.3	27.9	28.0	8.3	98.3	6.5	4.7	4.7								
					M	0.6	314.7	29.3	28.0	28.0	8.3	98.1	6.4	4.6	4.7	5.5								
						0.4	266.3	28.7	30.0	30.0	8.1	72.0	4.7	37.1										
						0.4	266.3	28.7	28.7	30.0	8.1	71.8	4.7	32.5										
E4	Cloudy	Calm	16:40	10.5	S	0.7	93.5	31.2	31.2	15.6	15.6	8.5	8.5	182.8	184.9	12.4	12.6	11.3	5.1	5.1	19.7	12.2	12.2	32.1
						0.5	340.8	31.2		15.6		8.6		187.1		12.7			5.0					
						0.2	325.1	29.8	29.8	21.7	21.7	8.3	145.9	9.8	7.2	6.6								
					M	0.9	41.3	29.8	29.8	21.8	21.7	8.3	149.8	10.1	10.0	6.0	10.8							
						0.4	166.9	28.7	28.7	27.5	27.5	8.0	81.2	5.6	5.5	42.8	47.4							
						0.7	339.8	28.7	27.5	27.5	8.0	81.2	5.4	51.9	77.6									
E5	Cloudy	Calm	17:43	5.5	S	0.4	104.6	29.9	30.0	20.7	20.6	8.1	8.1	115.4	115.1	7.8	7.8	7.8	7.1	7.0	9.0	10.3	10.8	10.8
						0.4	104.6	30.0		20.5		8.1		114.7		7.8			6.9					
						0.5	32.8	29.4	22.5	8.1	100.7	6.8	12.4											
					B	0.8	63.1	29.6	29.5	21.9	22.2	8.1	8.1	101.6	101.1	6.9	6.8	6.8	9.4	10.9	11.6			
						1.1	2.7	30.0		18.4		17.6		8.0		8.0			87.8		6.0	6.2	6.2	
						1.2	19.8	30.2	16.8	17.6	8.0	8.0	92.3	6.3	6.2	6.2	5.8							
E6	Cloudy	Calm	19:45	5.5	S	1.1	323.3	29.0	29.0	25.6	25.6	7.9	7.9	73.6	72.3	4.9	4.8	4.8	23.9	25.3	15.5	30.5	32.9	19.5
						0.3	52.3	29.0		25.7		7.9		71.1		4.8			26.7					
						0.6	47.2	30.2	30.1	21.1	19.1	8.1	8.1	101.4	102.8	6.8	7.0	7.0	6.2	5.6				
					B	1.2	19.8	30.2	30.1	17.1	19.1	8.1	8.1	104.1	102.8	7.2	7.0	7.0	5.0	5.6				
						1.1	20.9	29.5	29.5	25.0	25.0	8.0	8.0	92.0	89.9	6.1	6.0	6.0	11.1	11.9				
						0.9	31.5	29.5	25.1	25.0	8.0	8.0	87.9	5.8	6.0	6.0	12.7	11.9						
F1	Fine	Calm	16:42	19.5	S	0.4	202.9	30.1	30.2	27.2	27.2	8.5	8.5	155.8	157.5	10.1	10.2	6.7	2.7	2.7	6.6	4.1	4.3	11.9
						0.3	267.8	30.2		27.2		8.5		159.3		10.4			2.7					
						0.2	324.9	28.2	28.2	31.8	31.8	8.1	8.1	48.5	49.6	3.2	3.2	5.0	4.7					
					M	0.9	259.6	28.3	28.2	31.8	31.8	8.1	8.1	50.6	49.6	3.3	3.2	4.4	4.7	10.6				
						0.4	292.5	28.2	28.2	32.4	32.4	8.0	8.0	45.8	45.1	3.0	2.9	12.3	12.3	21.3				
						0.3	65.1	28.2	28.2	32.4	32.4	8.0	8.0	44.3	45.1	2.9	2.9	12.2	12.3	18.5				
F2	Fine	Calm	17:10	19.0	S	0.2	299.1	30.3	30.3	26.4	26.4	8.5	8.5	151.2	151.1	9.8	9.8	7.9	2.5	2.5	4.5	0.5	0.5	5.4
						0.2	299.1	30.4		26.4		8.5		151.0		9.8			2.4					
						0.2	341.4	28.7	28.7	30.5	30.5	8.2	8.2	89.7	90.7	5.9	5.9	1.8	1.7					
					M	0.2	341.4	28.7	28.7	30.5	30.5	8.2	8.2	91.6	90.7	6.0	5.9	1.7	1.7	3.2				
						0.3	24.9	27.9	27.9	32.5	32.5	8.0	8.0	50.7	49.4	3.3	3.2	9.3	9.5	13.4				
						0.3	24.9	27.9	27.9	32.5	32.5	8.0	8.0	48.1	49.4	3.2	3.2	9.6	9.5	11.8				

Water Quality Monitoring Data Log Sheet

Date: 2019/09/11

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
IM15	Cloudy	Calm	17:32	5.5	S	1.0	327.4	30.1	30.2	21.3	20.7	8.3	8.3	138.5	143.1	9.3	9.6	9.6	8.6	8.0	10.9	13.2	13.5	17.0
						1.0	327.4	30.3	20.1	20.7	8.3	8.3	147.7	143.1	10.0	9.6	9.6	7.4						
					B	0.4	359.0	29.3	29.3	24.8	24.8	8.1	8.1	104.7	104.6	7.0	7.0	7.0	13.8	13.9	7.3	18.9	20.4	
						0.3	19.8	29.3	24.8	24.8	8.1	8.1	104.4	104.6	7.0	7.0	7.0	14.0						
IM16A	Cloudy	Calm	18:00	6.5	S	0.9	78.4	30.3	30.3	18.0	18.0	8.0	8.0	101.0	101.2	6.9	6.9	6.8	5.7	5.6	7.3	8.5	8.1	10.1
						0.9	78.4	30.3	18.0	18.0	8.0	8.0	101.3	101.2	6.9	6.9	6.8	5.6						
					M	0.8	276.6	30.1	30.1	18.7	18.8	8.0	8.0	95.6	97.6	6.5	6.6	6.8	7.6	7.2	7.3	9.4	9.2	
						0.2	258.6	30.1	29.5	22.2	22.0	8.0	8.0	99.6	97.6	6.8	6.6	6.7	9.0					
					B	0.7	223.1	29.5	29.5	21.9	22.0	8.0	8.0	91.0	89.1	6.2	6.0	6.0	8.7	9.1	7.3	12.1	12.9	
						0.7	223.1	29.5	29.5	22.2	22.0	8.0	8.0	87.1	89.1	5.9	6.0	6.0	9.6					
IM17	Cloudy	Calm	19:03	4.5	S	1.2	21.8	30.2	30.2	18.7	18.9	8.1	8.1	112.5	107.7	7.6	7.3	7.3	7.5	7.0	18.8	10.0	9.9	13.9
						1.2	21.8	30.1	30.2	19.1	18.9	8.0	8.1	102.9	107.7	7.0	7.3	7.3	6.5					
					B	0.4	5.4	29.7	29.7	21.0	21.0	7.9	7.9	89.1	88.0	6.0	6.0	6.0	29.7	30.6	7.3	16.6	17.9	
						0.9	38.3	29.7	29.7	20.9	21.0	7.9	7.9	87.0	88.0	5.9	6.0	6.0	31.5					
IM18	Cloudy	Calm	18:50	17.0	S	0.3	103.2	30.2	30.2	17.6	17.3	8.0	8.0	92.7	94.1	6.3	6.4	5.8	6.5	6.2	21.3	9.7	9.3	31.4
						0.3	103.2	30.2	17.1	17.3	8.0	8.0	95.6	94.1	6.6	6.4	5.8	5.9						
					M	0.7	313.3	29.1	29.1	25.7	25.7	7.9	7.9	76.1	76.2	5.1	5.1	5.1	7.5	7.6	7.3	13.4	13.1	
						1.1	299.3	29.1	29.1	25.7	25.7	7.9	7.9	76.2	76.2	5.1	5.1	5.1	7.6					
					B	0.8	352.1	28.8	28.8	27.1	27.0	7.9	7.9	70.1	69.4	4.7	4.6	4.6	49.6	50.2	7.3	70.2	71.9	
						0.6	250.6	28.8	28.8	27.0	27.0	7.9	7.9	68.8	69.4	4.6	4.6	4.6	50.7					
IM19	Cloudy	Calm	19:23	17.5	S	0.6	322.5	30.6	30.6	18.4	18.7	8.2	8.2	119.3	120.3	8.1	8.1	7.0	4.9	4.9	14.5	7.6	7.2	23.8
						0.6	322.5	30.6	30.6	19.0	18.7	8.2	8.2	121.3	120.3	8.2	8.1	7.0	4.9					
					M	0.9	4.3	29.2	29.3	24.8	24.8	8.0	8.0	88.0	88.8	5.9	5.9	5.8	4.3	4.0	7.3	7.2	7.7	
						0.6	358.1	29.3	29.3	24.8	24.8	8.0	8.0	89.6	88.8	6.0	5.9	5.8	3.7					
					B	0.5	325.6	28.8	28.8	27.8	27.8	7.9	7.9	74.7	73.1	4.9	4.8	4.8	31.2	34.6	7.3	53.8	56.6	
						0.6	349.5	28.8	28.8	27.8	27.8	7.9	7.9	71.6	73.1	4.7	4.8	4.8	38.1					
IM20A	Cloudy	Calm	20:22	4.5	S	0.4	316.0	31.2	31.4	20.4	20.2	8.1	8.1	101.6	105.8	6.7	7.0	7.0	15.3	15.4	14.6	21.5	20.1	19.3
						0.4	316.0	31.6	31.4	20.4	20.2	8.1	8.1	110.1	105.8	7.3	7.0	7.0	15.5					
					B	0.4	117.9	30.1	29.8	23.6	24.0	8.0	8.0	96.9	94.8	6.4	6.3	6.3	14.8	13.8	7.3	18.8	18.5	
						1.3	103.6	29.6	29.8	24.4	24.0	8.0	8.0	92.7	94.8	6.2	6.3	6.3	12.8					
IM21A	Cloudy	Calm	20:13	4.5	S	1.1	164.9	31.0	31.1	20.7	20.5	8.0	8.0	97.5	98.9	6.5	6.6	6.6	18.4	17.5	20.3	23.6	25.7	33.4
						1.1	164.9	31.1	31.1	20.4	20.5	8.0	8.0	100.3	98.9	6.7	6.6	6.6	16.6					
					B	0.4	93.6	29.8	29.8	24.4	24.4	8.0	8.0	93.2	90.6	6.2	6.0	6.0	21.1	23.2	7.3	39.7	41.1	
						0.5	19.9	29.8	29.8	24.4	24.4	8.0	8.0	87.9	90.6	5.8	6.0	6.0	25.2					
IM22A	Cloudy	Calm	20:07	4.5	S	0.6	28.6	30.7	30.8	21.1	20.9	8.1	8.1	109.6	112.0	7.3	7.4	7.4	14.2	14.2	20.4	16.9	15.8	20.2
						0.6	28.6	31.0	30.8	20.8	20.9	8.1	8.1	114.3	112.0	7.6	7.4	7.4	14.2					
					B	0.3	333.4	29.5	29.4	24.8	25.0	8.0	8.0	88.3	85.2	5.9	5.7	5.7	24.1	26.7	7.3	26.4	24.6	
						0.5	217.6	29.3	29.4	25.3	25.0	7.9	8.0	82.0	85.2	5.5	5.7	5.7	29.2					

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: 2019/09/14

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)				
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
E1	Fine	Rough	11:08	9.6	S	0.3	135.0	29.4	29.4	28.5	28.5	8.1	8.1	105.8	105.7	6.9	6.9	6.1	2.1	2.1	4.5	2.5	2.3	6.8	
						0.3	136.0	29.4	29.2	28.5	28.5	8.1	8.1	105.6	105.6	6.9	6.9	6.1	2.1	2.1		2.0			
						0.2	147.0	29.2	29.2	29.7	29.7	8.1	8.1	82.9	83.1	5.4	5.4	6.1	5.3	5.1		6.5			
					M	0.2	152.0	29.2	29.2	29.7	29.7	8.1	8.1	83.2	83.1	5.4	5.4	6.1	4.9	5.1		6.5	5.9		
						B	0.1	124.0	28.6	28.6	31.0	31.0	8.2	8.2	64.7	64.7	4.2	4.2	4.2	6.4		6.4	12.3		12.2
							0.1	131.0	28.6	28.6	31.0	31.0	8.2	8.2	64.7	64.7	4.2	4.2	4.2	6.4		6.4	12.1		12.2
IM1	Fine	Rough	11:45	7.2	S	0.2	136.0	30.2	30.2	28.7	28.7	8.1	8.1	139.3	139.3	9.0	9.0	6.8	1.3	1.3	2.0	2.2	2.0	2.7	
						0.2	141.0	30.2	30.2	28.7	28.7	8.1	8.1	139.2	139.3	9.0	9.0	6.8	1.3	1.3		1.8			
						0.2	130.0	28.2	28.2	32.0	32.0	8.0	8.0	71.5	71.7	4.7	4.7	6.8	1.4	1.4		2.4	2.2		
					M	0.2	130.0	28.2	28.2	32.0	32.0	8.0	8.0	71.8	71.7	4.7	4.7	6.8	1.3	1.4		1.9	2.2		
						B	0.2	148.0	27.4	27.4	32.8	32.8	8.1	8.1	46.1	46.2	3.0	3.0	3.0	3.5		3.5	3.5		4.0
							0.2	153.0	27.4	27.4	32.8	32.8	8.1	8.1	46.2	46.2	3.1	3.0	3.0	3.5		3.5	4.5		4.0
IM2	Fine	Moderate	11:19	11.5	S	0.1	131.0	29.7	29.7	28.5	28.5	8.0	8.0	134.9	134.8	8.8	8.8	7.2	1.7	1.7	2.7	2.5	2.3	2.7	
						0.1	136.0	29.7	29.7	28.5	28.5	8.0	8.0	134.7	134.8	8.8	8.8	7.2	1.7	1.7		2.0	2.3		
						0.1	115.0	28.6	28.6	31.2	31.2	7.9	7.9	85.1	85.2	5.5	5.5	7.2	1.2	1.2		1.8	2.0		
					M	0.1	118.0	28.6	28.6	31.2	31.2	7.9	7.9	85.3	85.2	5.6	5.5	7.2	1.2	1.2		2.2	2.0		
						B	0.1	114.0	27.8	27.8	32.3	32.3	7.9	7.9	51.7	51.7	3.4	3.4	3.4	5.2		5.2	3.7		3.8
							0.1	122.0	27.8	27.8	32.3	32.3	7.9	7.9	51.7	51.7	3.4	3.4	3.4	5.2		5.2	3.9		3.8
IM11A	Fine	Moderate	14:21	5.8	S	0.5	170.0	29.3	29.3	26.4	26.4	8.3	8.3	71.8	71.8	4.8	4.8	4.8	41.1	42.4	59.5	28.6	30.7	30.7	
						0.5	178.0	29.3	29.3	26.4	26.4	8.3	8.3	71.8	71.8	4.8	4.8	4.8	43.8	42.4		32.8	30.7		
					B	0.1	104.0	29.2	29.2	26.7	26.7	8.5	8.5	70.6	70.7	4.7	4.7	4.7	72.2	76.5		32.3	30.6		
						0.1	111.0	29.2	29.2	26.7	26.7	8.5	8.5	70.7	70.7	4.7	4.7	4.7	80.8	76.5		28.9	30.6		
IM12	Fine	Rough	14:35	14.0	S	1.3	141.0	29.7	29.7	25.2	25.2	8.0	8.0	80.2	80.2	5.3	5.3	4.6	3.8	3.8	33.9	4.3	4.8	31.4	
						1.3	153.0	29.7	29.7	25.2	25.2	8.0	8.0	80.2	80.2	5.3	5.3	4.6	3.8	3.8		5.3	4.8		
						1.0	152.0	28.8	28.8	28.8	28.8	8.0	8.0	59.6	59.6	3.9	3.9	3.9	37.9	38.2		40.7	44.0		
					M	1.1	166.0	28.8	28.8	28.8	28.8	8.0	8.0	59.6	59.6	3.9	3.9	3.9	38.5	38.2		47.2	44.0		
						B	0.7	158.0	28.7	28.7	29.0	29.0	8.1	8.1	59.7	59.8	3.9	3.9	3.9	59.2		59.6	42.9		45.6
							0.7	171.0	28.7	28.7	29.0	29.0	8.1	8.1	59.8	59.8	3.9	3.9	3.9	60.0		59.6	48.2		45.6

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/14

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)					
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*		
E1	Cloudy	Moderate	19:47	9.2	S	0.2	255.0	28.8	28.9	28.0	28.0	7.9	7.9	73.4	73.4	4.9	4.9	4.8	3.2	3.2	6.5	6.3	6.8	6.4		
						0.2	256.0	28.9		28.0		7.9		73.4		4.9			3.2			7.3				
					M	0.2	303.0	28.7	28.7	29.1	29.1	7.9	7.9	71.3	71.3	4.7	4.7	4.5	4.1	4.1		4.1	4.1		7.4	6.9
						0.2	311.0	28.7		29.1		7.9		71.3		4.7			4.1			6.4				
					B	0.3	328.0	28.5	28.5	30.6	30.6	7.9	7.9	69.3	69.4	4.5	4.5	4.5	12.2	12.2		12.2	12.2		5.9	5.5
						0.3	332.0	28.5		30.6		7.9		69.4		4.6			12.1			5.0				
E2	Fine	Moderate	18:06	8.5	S	0.3	289.0	30.0	30.0	28.1	28.1	8.2	8.2	106.4	106.3	6.9	6.9	6.4	2.2	2.2	6.7	6.0	5.9	8.7		
						0.4	290.0	30.0		28.1		8.2		106.2		6.9			2.2			5.8				
					M	0.3	290.0	29.6	29.6	28.7	28.7	8.2	8.2	90.5	90.5	5.9	5.9	3.6	3.2	3.2		3.2	3.2		5.3	5.4
						0.3	315.0	29.6		28.7		8.2		90.5		5.9			3.2			5.4				
					B	0.2	277.0	29.1	29.1	29.6	29.6	8.2	8.2	55.6	55.7	3.6	3.6	3.6	14.7	14.7		14.7	14.7		13.8	14.9
						0.2	279.0	29.1		29.6		8.2		55.7		3.6			14.7			15.9				
E7A	Cloudy	Calm	19:44	5.8	S	0.1	52.0	30.3	30.3	19.2	19.2	7.9	7.9	82.1	82.1	5.6	5.6	5.6	6.2	6.2	7.3	3.0	3.3	14.7		
						0.1	54.0	30.3		19.2		7.9		82.1		5.6			6.2			3.6				
					B	0.2	26.0	30.0	30.0	22.2	22.2	8.0	8.0	83.6	83.6	5.6	5.6	5.6	8.3	8.3		8.3	8.3		25.2	26.2
						0.2	27.0	30.0		22.2		8.0		83.6		5.6			8.3			27.1				
IM2	Cloudy	Moderate	19:27	11.7	S	0.1	326.0	30.8	30.8	29.2	29.1	7.9	7.9	106.0	106.0	6.7	6.7	5.9	1.8	1.8	5.3	2.7	3.1	7.5		
						0.1	349.0	30.8		29.1		7.9		105.9		6.7			1.8			3.5				
					M	0.1	356.0	28.8	28.8	30.6	30.6	8.0	8.0	78.0	78.0	5.1	5.1	4.2	3.8	3.8		3.8	3.8		4.2	4.7
						0.1	356.0	28.8		30.6		8.0		77.9		5.1			3.8			5.2				
					B	0.5	5.0	28.2	28.2	31.9	31.9	8.0	8.0	63.8	63.8	4.2	4.2	4.2	10.5	10.3		10.3	10.3		15.1	14.6
						0.5	5.0	28.2		31.9		8.0		63.8		4.2			10.2			14.1				
IM10	Fine	Moderate	17:09	14.4	S	0.6	246.0	29.7	29.7	28.4	28.4	8.0	8.0	83.5	83.5	5.4	5.4	4.6	4.2	4.2	9.3	6.7	6.7	13.6		
						0.6	264.0	29.7		28.4		8.0		83.4		5.4			4.1			6.7				
					M	0.7	241.0	28.7	28.7	30.0	30.0	8.1	8.1	58.8	58.8	3.9	3.9	3.4	6.7	6.7		6.7	6.7		8.6	9.1
						0.7	244.0	28.7		30.0		8.1		58.7		3.9			6.6			9.5				
					B	0.6	243.0	28.3	28.3	31.0	31.0	8.2	8.2	51.4	51.5	3.4	3.4	3.4	17.1	17.1		17.1	17.1		23.2	25.0
						0.7	243.0	28.3		31.0		8.2		51.5		3.4			17.1			26.8				

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/09/17

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
E2	Cloudy	Rough	07:39	9.1	S	0.2	269.0	28.7	28.7	29.3	29.3	8.0	8.0	108.2	108.1	7.1	7.1	6.8	1.3	1.3	3.3	3.8	4.1	8.2	
						0.2	291.0	28.7	29.3	8.0		108.0	7.1	1.3		4.4									
						0.2	277.0	28.6	28.6	29.4		8.0	98.8	6.5		6.5			1.7			1.7			3.7
					M	0.2	282.0	28.6	28.6	29.4	8.0	98.6	3.9	3.9	3.9	3.9	6.8	6.8	4.3	16.4	15.9	16.4	4.0	8.2	
						0.2	281.0	28.3	28.3	30.4	7.8	59.0	3.9		6.8										
						0.2	295.0	28.3	28.3	30.4	7.8	59.0	3.9		6.8										
					B	0.1	49.0	29.2	29.2	21.7	7.9	71.6	4.9	71.6	4.9	4.9	4.8	4.7	5.0	4.7	4.7	6.5	4.3	4.7	8.1
						0.1	50.0	29.2	29.2	21.7	7.9	71.6	4.9		4.7										
						0.1	55.0	28.9	28.9	24.1	7.9	67.8	4.6		8.3										
E7A	Cloudy	Calm	10:45	5.7	S	0.1	49.0	29.2	29.2	21.7	21.7	7.9	7.9	71.6	71.6	4.9	4.9	4.6	4.8	4.7	6.5	5.0	4.7	8.1	
						0.1	50.0	29.2	29.2	21.7		7.9	71.6	4.9		4.7									
						0.1	55.0	28.9	28.9	24.1		7.9	67.8	4.6		8.3									
B	0.1	56.0	28.9	28.9	24.1	7.9	67.8	4.6	67.8	4.6	4.6	8.3	8.3	11.8	11.5	11.5	11.5	11.5	11.5	8.1					
	0.1	55.0	28.9	28.9	24.1	7.9	67.8	4.6		8.3															
	0.1	56.0	28.9	28.9	24.1	7.9	67.8	4.6		8.3															

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: 2019/12/26

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*			
E1	Cloudy	Calm	03:12	8.0	S	0.6	96.4	20.9	20.9	32.5	32.5	8.0	8.0	88.3	88.3	6.5	6.5	6.5	6.6	8.1	9.8	11.8	11.8	0.015				
						0.2	239.8	20.9		32.5	32.5	8.0		88.3	88.3	6.5		6.5			6.7				9.4			
						0.1	123.9	20.9		32.5	32.5	8.0		88.1	88.1	6.5		6.5			7.2				11.0			
					M	0.4	305.8	20.9	20.9	32.5	32.5	8.0	8.0	88.1	88.1	6.5	6.5	7.4	7.3	10.7	10.9							
						B	0.3	214.8	20.9	20.9	32.5	32.5	8.0	8.0	89.2	88.9	6.6	6.6	6.6	11.0	14.7	15.0						
							0.4	182.7	20.9	20.9	32.5	32.5	8.0	8.0	88.5	88.9	6.5	6.6	6.6	9.9	15.3							
E2	Cloudy	Calm	23:22	9.0	S	1.0	182.4	21.0	21.0	32.9	32.8	8.1	8.1	102.3	102.3	7.5	7.5	2.7	2.8	3.0	5.4	5.9	5.9	0.030				
						0.7	120.9	21.0		32.8	32.8	8.1		102.3	102.3	7.5		2.9			5.2							
						0.2	46.5	21.0		21.0	32.9	32.9		8.1	8.1	102.1		102.1			7.5				7.5	2.9	6.2	6.4
					M	0.2	286.9	21.0	21.0	32.9	32.9	8.1	8.1	102.1	102.1	7.5	7.5	2.8	6.5	6.5								
						B	0.7	49.7	21.0	21.0	32.8	32.8	8.1	8.1	102.8	102.4	7.6	7.5	7.5	3.6	6.0	6.2						
							0.8	208.9	21.0	21.0	32.9	32.9	8.1	8.1	102.0	102.0	7.5	7.5	2.9	6.3	6.2							
E3	Fine	Rough	00:55	16.3	S	0.9	106.0	19.7	19.7	33.9	33.9	8.1	8.1	100.4	100.4	7.5	7.5	5.2	5.2	6.6	10.8	12.9	12.9	<0.001				
						1.0	106.0	19.7		33.9	33.9	8.1		100.4	100.4	7.5		5.3			11.3							
						0.8	98.0	20.0		20.0	33.8	33.8		8.1	8.1	100.6		100.6			7.5				7.5	5.7	12.7	12.6
					M	0.9	104.0	20.0	20.0	33.8	33.8	8.1	8.1	100.6	100.6	7.5	7.5	5.7	12.5	12.6								
						B	0.6	88.0	20.0	20.0	33.8	33.8	8.1	8.1	101.4	101.5	7.6	7.6	7.6	8.9	15.2	15.0						
							0.7	93.0	20.0	20.0	33.8	33.8	8.1	8.1	101.5	101.5	7.6	7.6	7.6	9.1	14.7							
E4	Fine	Rough	02:55	10.9	S	1.2	188.0	20.0	20.0	31.6	31.6	8.1	8.1	98.2	98.3	7.4	7.5	15.4	15.4	16.6	30.5	28.0	28.0	0.059				
						1.3	190.0	20.0		31.6	31.6	8.1		98.3	98.3	7.4		15.4			29.8							
						1.0	179.0	20.0		20.0	31.5	31.5		8.1	8.1	99.7		99.8			7.5				7.5	17.0	17.0	27.2
					M	1.0	195.0	20.0	20.0	31.5	31.5	8.1	8.1	99.8	99.8	7.5	7.5	17.0	17.0	27.2	27.2							
						B	1.1	176.0	19.7	19.7	32.2	32.2	8.1	8.1	98.9	98.9	7.5	7.5	7.5	17.6	17.5	26.5			26.5			
							1.2	190.0	19.7	19.7	32.2	32.2	8.1	8.1	98.9	98.9	7.5	7.5	7.5	17.5	17.5	26.5			26.5			
E5	Fine	Rough	03:09	5.4	S	0.8	203.0	20.5	20.5	29.2	29.2	8.0	8.0	95.1	95.1	7.2	7.2	37.4	37.5	40.8	74.3	81.4	81.4	0.059				
						0.8	203.0	20.5		20.5	29.2	29.2		8.0	8.0	95.1		95.1			7.2				7.2	37.5	73.0	73.7
						0.6	212.0	20.6		20.6	29.7	29.7		8.0	8.0	95.2		95.2			7.2				7.2	7.2	44.2	44.2
					B	0.6	220.0	20.6	20.6	29.7	29.7	8.0	8.0	95.2	95.2	7.2	7.2	7.2	44.3	44.2	90.9	89.2						
						S	0.9	146.0	20.6	20.6	29.6	29.6	7.9	7.9	93.1	93.2	7.0	7.0	7.0	12.0	12.0	18.6			18.9			
							0.9	150.0	20.6	20.6	29.6	29.6	7.9	7.9	93.2	93.2	7.0	7.0	7.0	11.9	11.9	19.1			18.9			
B	0.6	140.0	20.6	20.6	29.8	29.8	8.0	8.0	93.5	93.6	7.1	7.1	7.1	14.6	14.6	24.7	24.7											
	0.7	143.0	20.6	20.6	29.8	29.8	8.0	8.0	93.6	93.6	7.1	7.1	7.1	14.6	14.6	24.6	24.7											
	0.4	191.0	20.9	20.9	28.8	28.8	7.9	7.9	93.2	93.2	7.0	7.0	7.0	8.9	9.0	13.4	14.1											
E7A	Fine	Moderate	02:00	4.8	S	0.5	199.0	20.9	20.9	28.8	28.8	7.9	7.9	93.2	93.2	7.0	7.0	7.0	9.1	14.7	18.2	18.2	0.059					
						0.4	191.0	20.9	20.9	28.8	28.8	7.9	7.9	93.7	93.7	7.1	7.1	7.1	12.8	12.8	21.6			22.3				
						0.4	198.0	20.9	20.9	28.8	28.8	7.9	7.9	93.7	93.7	7.1	7.1	7.1	12.9	12.9	22.9			22.9				
F1	Cloudy	Calm	02:09	19.3	S	0.3	66.4	20.4	20.4	32.7	32.7	8.2	8.2	101.4	101.4	7.6	7.5	1.5	1.5	1.6	3.6	4.4	4.4	0.059				
						0.5	250.9	20.4		20.4	32.7	32.7		8.2	101.4	101.4		7.6			1.5				3.4			
						1.2	122.3	20.4		20.4	32.7	32.7		8.2	8.2	100.7		100.7			7.5				7.5	1.8	4.8	4.6
					M	0.6	160.0	20.4	20.4	32.7	32.7	8.2	8.2	100.7	100.7	7.5	7.5	1.5	4.4	4.6								
						B	0.3	66.4	20.4	20.4	32.7	32.7	8.2	8.2	100.3	100.3	7.5	7.5	7.5	1.5	1.5	5.1			5.1			
							0.4	177.9	20.4	20.4	32.7	32.7	8.2	8.2	100.3	100.3	7.5	7.5	7.5	1.5	1.5	5.0			5.1			
F2	Cloudy	Calm	01:37	19.2	S	1.0	225.5	20.1	20.1	32.6	32.6	8.2	8.2	101.1	101.1	7.6	7.5	1.1	1.1	1.2	5.1	4.2	4.2	0.059				
						0.7	182.6	20.1		20.1	32.6	32.6		8.2	101.1	101.1		7.6			1.1				5.5			
						0.2	179.3	20.1		20.1	32.6	32.6		8.2	8.2	100.4		100.5			7.5				7.5	1.2	4.1	4.1
					M	0.2	179.3	20.1	20.1	32.6	32.6	8.2	8.2	100.5	100.5	7.5	7.5	1.1	4.1	4.1								
						B	1.0	138.1	20.1	20.1	32.6	32.6	8.2	8.2	100.0	100.0	7.5	7.5	7.5	1.4	3.0	3.3						
							0.6	94.7	20.1	20.1	32.6	32.6	8.2	8.2	100.0	100.0	7.5	7.5	7.5	1.5	3.5	3.3						

Water Quality Monitoring Data Log Sheet

Date: 2019/12/26

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*			
F3	Cloudy	Calm	00:58	17.2	S	0.8	179.9	20.0	20.0	32.5	32.5	8.2	8.2	101.2	101.3	7.6	7.6	7.6	1.8	2.0	1.8	7.2	7.0	6.0	<0.001			
						0.8	179.9	20.0		32.5	32.5	8.2		101.3	7.6	1.8			6.7		0.008							
						1.4	262.5	20.0		32.5	32.5	8.2		100.5	7.5	2.0			6.3		<0.001							
					M	1.4	262.5	20.0	32.5	32.5	8.2	100.5	7.5	7.5	1.9	2.0	2.0	5.6	6.0	5.1	<0.001							
						B	0.9	319.0	20.0	32.5	32.5	8.2	100.3	100.2	7.5	7.5	7.5	2.3	2.3	2.3	4.8	5.0	4.8		<0.001			
							1.0	272.5	20.0	32.5	32.5	8.2	100.1	7.5	7.5	2.2	2.2	2.2	5.1	5.0	4.8	<0.001						
F4	Cloudy	Calm	23:51	13.3	S	0.7	86.2	21.1	21.1	33.0	33.0	8.1	8.1	102.3	102.4	7.5	7.5	7.5	5.4	5.3	5.5	10.5	10.8	9.1	<0.001			
						0.7	86.2	21.1		33.0	33.0	8.1		102.4	7.5	5.6			11.1		9.6							
						0.3	38.4	21.1		33.0	33.0	8.1		101.9	7.5	5.5			9.6		8.8							
					M	0.2	354.6	21.1	33.0	33.0	8.1	101.9	7.5	5.3	7.6	7.3	7.6	7.0	7.0	7.0	54.1	54.2	54.2		67.0			
						B	0.6	138.5	21.1	33.0	33.0	8.1	101.9	7.5	7.5	7.5	7.5	5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0	5.0
							0.4	189.2	21.1	33.0	33.0	8.1	101.7	7.5	7.5	7.5	7.5	5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0	5.0
F5	Fine	Rough	03:40	4.9	S	0.4	178.0	20.4	20.4	30.6	30.6	8.0	8.0	96.4	96.4	7.3	7.3	7.3	31.1	31.5	31.5	54.1	54.2	67.0	<0.001			
						0.4	182.0	20.4		30.6	30.6	8.0		96.4	7.3	31.9			54.2									
					B	0.2	184.0	20.4	30.6	30.6	8.0	96.7	7.3	35.0	77.6	79.8												
						0.2	194.0	20.4	30.6	30.6	8.0	96.7	7.3	35.2	81.9	79.8												
F6	Fine	Rough	23:50	11.8	S	0.6	132.0	20.6	20.6	30.3	30.3	7.9	7.9	95.7	95.7	7.2	7.2	7.2	13.0	13.0	13.0	18.1	18.6	20.6	<0.001			
						0.6	133.0	20.6		30.3	30.3	7.9		95.7	7.2	13.1			19.0									
						0.4	117.0	20.7		30.8	30.8	7.9		93.4	7.0	13.8			20.8									
					M	0.4	119.0	20.7	30.8	30.8	7.9	93.2	7.0	13.6	19.5													
						B	0.2	99.0	20.8	31.7	31.7	7.9	89.5	6.7	5.9	23.2	23.0											
							0.2	100.0	20.8	31.7	31.7	7.9	89.5	6.7	5.9	22.7	23.0											
IM1	Cloudy	Calm	02:31	9.1	S	0.8	87.0	20.7	20.7	32.7	32.7	8.1	8.1	99.8	99.8	7.4	7.4	7.4	2.5	2.7	2.7	4.0	4.0	5.7	<0.001			
						0.4	142.2	20.7		32.7	32.7	8.1		99.8	7.4	2.8			4.0									
						0.3	248.1	20.7		32.7	32.7	8.1		99.6	7.4	2.5			4.9									
					M	0.2	241.1	20.7	32.7	32.7	8.1	99.6	7.4	2.9	5.2	5.1												
						B	0.3	17.3	20.7	32.7	32.7	8.1	100.4	7.4	3.1	7.7	7.9											
							0.3	17.3	20.7	32.7	32.7	8.1	99.9	7.4	3.0	8.1	7.9											
IM2	Cloudy	Calm	02:57	10.3	S	1.0	168.2	20.8	20.8	32.6	32.6	8.1	8.1	91.5	91.5	6.8	6.8	6.8	4.7	4.7	4.7	8.1	8.2	9.5	<0.001			
						1.0	204.0	20.8		32.6	32.6	8.1		91.4	6.8	4.7			8.3									
						0.7	230.5	20.8		32.6	32.6	8.1		91.3	6.8	6.4			9.3									
					M	0.5	164.3	20.8	32.6	32.6	8.0	91.3	6.8	5.5	9.2	9.3												
						B	0.7	229.5	20.8	32.6	32.6	8.0	91.2	6.7	6.9	10.9	11.0											
							0.7	229.5	20.8	32.6	32.6	8.0	91.1	6.7	8.3	11.1	11.0											
IM3	Cloudy	Calm	22:26	16.0	S	1.0	124.6	20.8	20.8	32.6	32.6	7.9	7.9	102.4	102.5	7.6	7.6	7.6	1.4	1.4	1.4	4.4	4.7	5.4	<0.001			
						0.6	108.0	20.8		32.6	32.6	7.9		102.5	7.6	1.4			4.9									
						1.4	61.9	20.8		32.6	32.6	7.9		101.4	7.5	1.7			5.4									
					M	0.4	357.5	20.8	32.6	32.6	7.9	101.8	7.5	1.4	5.7	5.6												
						B	0.4	341.0	20.6	32.6	32.6	8.0	99.4	7.4	3.3	5.7	5.9											
							0.4	341.0	20.6	32.6	32.6	8.0	99.4	7.4	3.1	6.0	5.9											
IM4	Cloudy	Calm	22:51	17.0	S	0.9	265.9	20.8	20.8	32.7	32.7	8.1	8.1	100.4	100.4	7.4	7.4	7.4	2.6	2.7	2.7	5.7	5.6	6.5	<0.001			
						0.9	265.9	20.8		32.7	32.7	8.1		100.4	7.4	2.7			5.4									
						1.1	114.4	20.8		32.7	32.7	8.1		99.9	7.4	2.7			6.0									
					M	1.8	127.1	20.8	32.7	32.7	8.1	99.8	7.4	2.7	6.2	6.1												
						B	0.6	81.5	20.8	32.7	32.7	8.1	99.6	7.4	3.4	7.7	7.9											
							0.7	90.5	20.8	32.7	32.7	8.1	99.2	7.3	3.9	8.1	7.9											
IM5	Cloudy	Calm	00:26	15.1	S	0.2	66.4	20.3	20.2	32.6	32.6	8.1	8.1	102.3	102.3	7.6	7.6	7.6	1.6	1.7	1.7	2.6	2.8	3.2	<0.001			
						0.2	268.7	20.2		32.6	32.6	8.1		102.3	7.6	1.7			3.0									
						0.3	6.6	20.3		32.6	32.6	8.1		101.8	7.6	1.8			3.1									
					M	0.3	6.6	20.3	32.6	32.6	8.1	101.8	7.6	1.5	3.4	3.3												
						B	0.4	291.0	20.3	32.6	32.6	8.1	101.3	7.6	2.0	3.7	3.7											
							0.4	291.0	20.3	32.6	32.6	8.1	101.3	7.6	2.0	3.6	3.7											

Water Quality Monitoring Data Log Sheet

Date: 2019/12/26

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*			
IM6	Cloudy	Calm	00:44	16.0	S	0.4	108.2	20.1	20.1	32.5	32.5	8.2	8.2	101.6	101.6	7.6	7.6	2.0	2.1	5.1	5.6	5.3	0.010					
						0.4	89.7	20.1		32.5	32.5	8.2		101.6	101.6	7.6		2.2		5.5								
						0.2	233.5	20.1		32.5	32.5	8.2		101.0	101.0	7.6		2.3		5.2								
					M	0.2	80.4	20.1	32.5	32.5	8.2	8.2	101.0	101.0	7.6	7.6	2.3	2.3	5.1	6.5	5.2	0.001						
						0.2	80.4	20.1	32.5	32.5	8.2		101.0	101.0	7.6		2.3		5.1									
						0.7	106.1	20.1	32.5	32.5	8.2		100.4	100.4	7.5		2.3		6.2									
B	0.3	26.5	20.1	32.5	32.5	8.2	8.2	100.4	100.4	7.5	7.5	2.7	2.5	6.7	2.4	6.5	<0.001											
	0.1	80.0	19.5	33.7	33.7	8.0		102.2	102.2	7.7		1.6		2.3														
	0.1	84.0	19.5	33.7	33.7	8.0		102.2	102.2	7.7		1.6		2.5														
IM7	Fine	Rough	23:42	15.2	S	0.1	73.0	19.6	19.6	33.7	33.7	8.0	8.0	102.5	102.5	7.7	7.7	3.7	3.7	3.8	3.5	3.7	0.005					
						0.1	73.0	19.6		33.7	33.7	8.0		102.5	102.5	7.7		3.8		3.6								
						0.2	51.0	19.5		33.6	33.6	8.0		102.7	102.7	7.7		2.9		4.2								
					M	0.2	54.0	19.5	33.6	33.6	8.0	8.0	102.7	102.7	7.7	7.7	2.9	2.9	4.5	4.4	4.4	<0.001						
						0.2	54.0	19.5	33.6	33.6	8.0		102.7	102.7	7.7		2.9		4.5									
						0.2	107.0	19.8	33.7	33.7	8.2		103.9	103.9	7.8		0.9		4.1									
IM8	Fine	Rough	23:52	13.6	S	0.2	107.0	19.8	19.8	33.7	33.7	8.2	8.2	103.9	103.9	7.8	7.8	0.9	0.9	3.9	4.1	4.0	0.005					
						0.2	61.0	19.8		33.7	33.7	8.1		103.3	103.3	7.7		1.0		4.1								
						0.2	63.0	19.8		33.7	33.7	8.1		103.2	103.2	7.7		1.0		3.9								
					M	0.0	110.0	19.8	33.8	33.8	8.1	8.1	103.1	103.1	7.7	7.7	2.0	2.0	4.0	4.2	4.0	<0.001						
						0.0	114.0	19.8	33.8	33.8	8.1		103.2	103.2	7.7		2.0		4.4									
						0.6	124.0	20.1	33.9	33.9	8.2		100.8	100.8	7.5		3.1		7.2									
IM9	Fine	Rough	00:17	15.3	S	0.6	128.0	20.1	20.1	33.9	33.9	8.2	8.2	100.8	100.8	7.5	7.5	3.1	3.1	7.4	7.9	7.3	0.010					
						0.4	127.0	20.1		33.9	33.9	8.1		101.1	101.1	7.5		3.2		7.6								
						0.4	131.0	20.1		33.9	33.9	8.1		101.1	101.1	7.5		3.2		8.0								
					M	0.4	120.0	20.0	33.9	33.9	8.1	8.1	101.6	101.6	7.6	7.6	4.0	4.0	8.3	8.6	8.3	0.005						
						0.5	123.0	20.0	33.9	33.9	8.1		101.7	101.7	7.6		4.0		8.8									
						0.5	84.0	20.2	33.8	33.8	8.2		101.6	101.6	7.5		11.4		22.1									
IM10	Fine	Rough	01:15	8.7	S	0.5	84.0	20.2	20.2	33.8	33.8	8.2	8.2	101.6	101.6	7.5	7.5	11.3	11.3	24.0	26.5	23.1	0.010					
						0.4	52.0	20.2		33.8	33.8	8.1		101.6	101.6	7.6		7.6		27.6								
						0.4	54.0	20.2		33.8	33.8	8.1		101.6	101.6	7.6		7.6		27.7								
					M	0.3	59.0	20.0	33.7	33.7	8.1	8.1	102.0	102.0	7.6	7.6	12.0	12.0	28.4	28.7	28.4	0.005						
						0.3	63.0	20.0	33.7	33.7	8.1		102.1	102.1	7.6		11.9		28.9									
						0.6	165.0	20.1	33.5	33.5	8.1		100.8	100.8	7.5		25.0		48.2									
IM11A	Fine	Rough	01:35	5.7	S	0.6	166.0	20.1	20.1	33.5	33.5	8.1	8.1	101.0	100.9	7.5	7.5	25.3	25.2	50.2	56.2	49.2	0.010					
						0.4	163.0	19.8		33.4	33.4	8.1		101.8	101.9	7.6		22.9		63.8								
						0.4	173.0	19.8		33.4	33.4	8.1		101.9	101.9	7.6		23.0		62.6								
					IM12	Fine	Rough	01:48	14.3	S	0.6	122.0	19.9	19.9	33.5	33.5	8.1	8.1	99.4	99.4	7.4	7.4	17.4	17.3	44.4	52.7	44.0	0.010
											0.6	134.0	19.9		33.5	33.5	8.1		99.3	99.3	7.4		17.3		43.6			
											0.4	114.0	19.9		33.4	33.4	8.1		99.2	99.2	7.4		18.7		57.0			
M	0.4	125.0	19.9	33.4						33.4	8.1	8.1	99.2	99.2	7.4	7.4	18.6	18.7	54.1	58.6	55.6	0.005						
	0.2	320.0	19.7	33.5						33.5	8.1		99.7	99.7	7.5		19.2		59.8									
	0.2	332.0	19.7	33.4						33.5	8.1		100.1	99.9	7.5		19.4		57.4									
IM13	Fine	Rough	02:24	15.3	S	1.2	136.0	20.0	20.0	32.0	32.0	8.1	8.1	98.7	98.7	7.4	7.4	20.1	20.1	15.6	17.6	15.4	0.010					
						1.3	136.0	20.0		32.0	32.0	8.1		98.7	98.7	7.4		20.1		15.2								
						1.2	140.0	20.0		32.2	32.2	8.1		98.8	98.8	7.4		15.2		16.5								
					M	1.2	143.0	20.0	32.2	32.2	8.1	8.1	98.8	98.8	7.4	7.4	15.2	15.2	16.8	20.6	16.7	0.005						
						0.8	134.0	19.7	32.1	32.1	8.1		99.1	99.1	7.5		9.2		20.0									
						0.9	137.0	19.7	32.1	32.1	8.1		99.2	99.2	7.5		9.2		21.2									
IM14	Fine	Rough	02:39	10.3	S	1.3	176.0	20.0	20.0	32.4	32.4	8.1	8.1	98.4	98.5	7.4	7.4	23.6	23.7	48.5	56.0	48.1	0.010					
						1.4	176.0	20.0		32.4	32.4	8.1		98.6	98.5	7.4		23.8		47.7								
						1.1	176.0	19.9		32.4	32.4	8.1		98.4	98.4	7.4		31.6		49.7								
					M	1.2	177.0	19.9	32.4	32.4	8.1	8.1	98.4	98.4	7.4	7.4	31.7	31.6	51.4	69.4	50.6	0.005						
						1.1	164.0	19.8	32.5	32.5	8.1		100.3	100.5	7.6		30.4		70.6									
						1.2	170.0	19.8	32.5	32.5	8.1		100.6	100.5	7.6		33.4		68.1									

Water Quality Monitoring Data Log Sheet

Date: 2019/12/26

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
IM15	Fine	Moderate	03:18	5.0	S	1.0	210.0	20.5	30.0	30.0	8.0	8.0	95.1	95.1	7.2	7.2	7.2	29.3	29.6	31.5	70.0	65.9	66.1	70.0	
						1.0	217.0	20.5	30.0	30.0	8.0	8.0	95.1	95.1	7.2	7.2	7.2	30.0	29.6			66.2			
					B	0.8	213.0	20.5	30.0	30.0	8.0	8.0	95.0	95.1	7.2	7.2	7.2	33.7	33.4			72.9			73.9
						0.9	225.0	20.5	30.0	30.0	8.0	8.0	95.1	95.1	7.2	7.2	7.2	33.1	33.4			74.9			73.9
IM16A	Fine	Rough	02:58	6.2	S	0.7	194.0	20.5	29.4	29.4	7.9	7.9	94.0	94.0	7.1	7.1	7.1	31.7	31.6	33.7	69.7	65.3	65.9	69.7	
						0.8	194.0	20.5	29.4	29.4	7.9	7.9	94.0	94.0	7.1	7.1	7.1	31.5	31.6			66.5			
					M	0.7	197.0	20.5	29.4	29.4	7.9	7.9	94.1	94.1	7.1	7.1	7.1	32.5	32.6			68.2			68.3
						0.8	197.0	20.5	29.4	29.4	7.9	7.9	94.1	94.1	7.1	7.1	7.1	32.8	32.6			68.4			
					B	0.6	199.0	20.5	29.4	29.4	7.9	7.9	94.7	94.8	7.2	7.2	7.2	36.9	36.8			74.2			75.0
						0.6	212.0	20.5	29.4	29.4	7.9	7.9	94.8	94.8	7.2	7.2	7.2	36.7	36.8			75.7			
IM17	Fine	Moderate	02:38	4.7	S	0.5	163.0	20.3	29.2	29.2	8.0	8.0	95.1	95.1	7.2	7.2	7.2	26.4	26.3	26.8	55.6	45.5	46.9	55.6	
						0.5	179.0	20.3	29.2	29.2	8.0	8.0	95.1	95.1	7.2	7.2	7.2	26.3	26.3			48.3			
					B	0.4	165.0	20.3	29.2	29.2	8.0	8.0	95.7	95.8	7.3	7.3	7.3	27.0	27.2			63.3			64.3
						0.5	179.0	20.3	29.2	29.2	8.0	8.0	95.8	95.6	7.3	7.3	7.3	27.3	27.2			65.2			
IM18	Fine	Rough	00:23	17.5	S	0.5	167.0	20.5	29.2	29.2	7.9	7.9	95.6	95.6	7.0	7.0	7.0	9.1	9.1	8.1	15.8	15.0	15.5	15.8	
						0.5	177.0	20.5	29.2	29.2	7.9	7.9	95.6	95.6	7.0	7.0	7.0	9.2	9.1			14.9			
					M	0.3	174.0	20.8	30.4	30.4	7.9	7.9	92.8	92.8	7.0	7.0	7.0	8.2	8.2			15.1			15.5
						0.3	179.0	20.8	30.4	30.4	7.9	7.9	92.8	92.8	7.0	7.0	7.0	8.2	8.2			15.8			
					B	0.2	115.0	20.8	31.6	31.6	7.9	7.9	89.6	89.6	6.7	6.7	6.7	7.0	6.9			16.9			16.9
						0.3	117.0	20.8	31.6	31.6	7.9	7.9	89.7	89.7	6.7	6.7	6.7	6.9	6.9			16.9			
IM19	Fine	Rough	00:37	17.2	S	0.9	188.0	20.9	29.8	29.8	7.9	7.9	94.3	94.3	7.1	7.1	7.1	5.9	6.0	7.5	9.3	8.5	8.3	9.3	
						0.9	202.0	20.9	29.8	29.8	7.9	7.9	94.3	94.3	7.1	7.1	7.1	6.0	6.0			8.1			
					M	0.6	172.0	20.9	30.4	30.4	7.9	7.9	93.1	93.1	7.0	7.0	7.0	5.9	5.9			9.5			9.6
						0.7	172.0	20.9	30.4	30.4	7.9	7.9	93.1	93.1	7.0	7.0	7.0	5.9	5.9			9.7			
					B	0.5	142.0	20.8	31.6	31.6	7.9	7.9	88.8	88.8	6.6	6.6	6.6	10.5	10.5			9.6			10.1
						0.6	147.0	20.8	31.6	31.6	7.9	7.9	88.8	88.8	6.6	6.6	6.6	10.6	10.5			10.5			
IM20A	Fine	Moderate	01:24	4.3	S	0.4	241.0	21.3	28.9	28.9	7.9	7.9	99.2	99.2	7.4	7.4	7.4	9.9	10.0	12.5	23.0	19.3	20.1	23.0	
						0.5	250.0	21.3	28.9	28.9	7.9	7.9	99.2	99.2	7.4	7.4	7.4	10.1	10.1			20.8			
					B	0.4	242.0	21.2	28.9	28.9	7.9	7.9	99.3	99.3	7.4	7.4	7.4	14.9	15.0			25.8			26.0
						0.4	244.0	21.2	28.9	28.9	7.9	7.9	99.3	99.3	7.5	7.4	7.4	15.1	15.0			26.1			
IM21A	Fine	Moderate	01:10	5.2	S	0.4	204.0	21.6	29.0	29.0	7.9	7.9	102.3	102.3	7.6	7.6	7.6	16.9	17.1	25.2	58.9	43.8	44.3	58.9	
						0.4	215.0	21.6	29.0	29.0	7.9	7.9	102.2	102.3	7.6	7.6	7.6	17.2	17.1			44.8			
					B	0.2	221.0	21.6	29.0	29.0	7.9	7.9	101.4	101.4	7.6	7.6	7.6	33.5	33.4			72.0			73.5
						0.2	240.0	21.6	29.0	29.0	7.9	7.9	101.4	101.4	7.6	7.6	7.6	33.2	33.4			75.0			
IM22A	Fine	Moderate	00:55	5.1	S	0.5	218.0	21.6	29.2	29.2	7.9	7.9	97.4	97.4	7.2	7.2	7.2	12.7	12.6	12.8	22.9	23.8	24.1	22.9	
						0.5	221.0	21.6	29.2	29.2	7.9	7.9	97.4	97.4	7.2	7.2	7.2	12.6	12.6			24.4			
					B	0.3	223.0	21.4	29.6	29.6	7.9	7.9	95.9	96.0	7.1	7.1	7.1	12.9	12.9			22.0			21.6
						0.4	229.0	21.4	29.6	29.6	7.9	7.9	96.0	96.0	7.1	7.1	7.1	13.0	12.9			21.2			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/12/26

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value		Average
E1	FINE	Calm	05:34	7.8	S	0.7	236.6	20.7	20.7	32.5	32.5	7.9	7.9	89.8	89.9	6.7	6.6	6.7	6.6	8.1	7.5	16.0	19.4	15.6	19.4
						0.6	289.1	20.7		32.5	7.9	89.9		6.7	6.8										
						0.6	174.2	20.7		32.5	7.9	89.5		6.6	10.0										
					M	0.3	324.0	20.7	32.5	7.9	89.5	6.6	6.6	10.1	10.1	11.1									
						0.8	194.8	20.7	32.5	7.9	90.9	6.7	6.7	11.1	11.1	21.2									
						0.5	228.5	20.7	32.5	7.9	89.4	6.6	6.6	11.0	11.0	21.4									
E2	FINE	Calm	08:58	8.2	S	0.4	242.0	20.6	20.6	32.9	32.9	8.1	8.1	99.3	99.4	7.4	7.3	7.4	7.3	2.7	2.8	8.1	7.5	8.0	7.5
						0.4	242.0	20.6		32.9	8.1	99.4		7.4	2.8										
						0.3	130.1	20.6		32.9	8.1	99.3		7.4	4.0										
					M	0.4	125.2	20.6	32.9	8.1	99.0	7.3	3.8	3.9	7.6	6.8									
						0.5	349.7	20.6	32.9	8.1	99.9	7.4	2.6												
						0.5	349.7	20.6	32.9	8.1	99.4	7.4	2.6												
E3	Fine	Rough	06:49	15.3	S	0.4	288.0	19.8	19.8	33.4	33.4	8.1	8.1	100.5	100.6	7.5	7.6	7.5	7.5	6.4	6.4	14.7	16.5	14.9	16.5
						0.5	303.0	19.8		33.4	8.1	100.6		7.5	6.3										
						0.5	297.0	19.8		33.4	8.1	102.5		7.7	7.5										
					M	0.5	321.0	19.8	33.4	8.1	102.7	7.7	7.6	7.5	7.6	6.5									
						0.6	289.0	18.7	33.5	8.1	102.9	7.9	7.9												
						0.6	301.0	18.6	33.5	8.1	102.9	7.9	7.9												
E4	Fine	Rough	05:26	10.2	S	0.6	215.0	18.9	18.9	31.7	31.7	8.1	8.1	97.5	97.5	7.5	7.6	7.5	7.5	13.9	13.9	22.4	24.9	22.3	24.9
						0.7	219.0	18.9		31.7	8.1	97.5		7.5	13.9										
						0.5	207.0	18.8		31.8	8.1	98.6		7.6	13.6										
					M	0.6	224.0	18.7	31.8	8.1	98.7	7.6	13.7	13.7	24.5	24.8									
						0.4	211.0	18.1	31.7	8.1	98.5	7.7	27.6												
						0.4	220.0	18.1	31.7	8.1	98.4	7.7	27.7												
E5	Fine	Moderate	06:46	5.0	S	0.3	257.0	20.5	20.5	30.1	30.1	7.9	7.9	92.4	92.4	7.0	7.0	7.0	7.0	14.0	14.0	21.1	24.6	21.1	24.6
						0.3	257.0	20.5		30.1	7.9	92.4		7.0	14.1										
						0.2	269.0	20.5		30.1	7.9	93.6		7.1	16.0										
					B	0.3	288.0	20.5	30.1	7.9	93.8	7.1	17.1	16.6	27.8	28.2									
						0.6	335.0	20.4	29.7	7.9	91.3	6.9	16.5												
						0.6	6.0	20.4	29.7	7.9	91.3	6.9	16.6												
E6	Fine	Moderate	07:48	5.1	S	0.5	337.0	20.4	20.4	29.7	29.7	7.9	7.9	91.9	92.0	7.0	7.0	7.0	7.0	22.7	22.6	30.2	32.1	30.6	32.1
						0.6	8.0	20.4		29.7	7.9	92.0		7.0	33.0										
						0.6	8.0	20.4		29.7	7.9	92.0		7.0	33.0										
					B	0.4	14.0	20.4	29.0	7.9	92.2	7.0	6.4	6.4	10.1	10.4									
						0.4	14.0	20.4	29.0	7.9	92.2	7.0	6.5												
						0.3	22.0	20.6	29.3	7.9	91.2	6.9	10.0												
E7A	Fine	Moderate	08:08	4.3	S	0.3	22.0	20.6	20.6	29.3	29.3	7.9	7.9	91.3	91.3	6.9	6.9	6.9	6.9	10.0	10.0	12.6	11.7	13.0	11.7
						0.3	22.0	20.6		29.3	7.9	91.3		6.9	10.0										
						0.5	271.4	20.4		32.6	8.1	100.2		7.5	1.3										
					M	0.3	236.7	20.4	32.6	8.1	100.2	7.5	1.4	7.4	1.5	1.5									
						0.7	353.1	20.4	32.6	8.1	99.5	7.4	2.0												
						1.0	266.2	20.4	32.6	8.1	99.6	7.4	1.5												
F1	FINE	Calm	06:33	19.3	S	0.2	258.3	20.4	20.4	32.6	32.6	8.1	8.1	99.0	99.0	7.4	7.4	7.4	7.4	2.0	2.0	4.2	4.5	4.5	4.5
						0.1	344.3	20.4		32.6	8.1	98.9		7.4	2.0										
						0.6	145.9	20.5		32.7	8.1	100.1		7.4	1.8										
					M	1.2	200.4	20.5	32.7	8.1	100.1	7.4	1.8	7.4	2.0	2.1									
						1.0	271.8	20.5	32.8	8.1	99.6	7.4	2.1												
						1.0	271.8	20.5	32.7	8.1	99.5	7.4	2.1												
F2	FINE	Calm	07:03	19.0	S	0.1	260.7	20.5	20.5	32.8	32.7	8.1	8.1	99.3	99.2	7.4	7.4	7.4	7.4	2.6	2.8	4.9	5.6	4.9	5.6
						0.6	145.9	20.5		32.7	8.1	100.1		7.4	1.8										
						0.1	117.1	20.5		32.7	8.1	99.1		7.4	3.0										

Water Quality Monitoring Data Log Sheet

Date: 2019/12/26

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*			
IM15	Fine	Moderate	06:33	5.2	S	0.4	260.0	20.6	20.6	29.8	29.8	7.9	7.9	92.9	93.0	7.0	7.0	7.0	31.7	31.8	33.2	69.7	70.2	71.8				
						0.4	277.0	20.6	20.6	29.8	29.8	7.9	7.9	93.0	93.0	7.0	7.0	7.0	31.9	31.8								
					B	0.4	274.0	20.6	20.6	29.8	29.8	7.9	7.9	93.8	93.9	7.1	7.1	7.1	35.0	34.6					33.2	72.1	73.4	
						0.4	278.0	20.6	20.6	29.8	29.8	7.9	7.9	93.9	93.9	7.1	7.1	7.1	34.3	34.6					33.2	74.7	73.4	
IM16A	Fine	Moderate	07:02	5.7	S	0.2	271.0	20.5	20.5	30.1	30.1	7.9	7.9	91.8	91.8	6.9	6.9	6.9	14.2	14.3	14.9	26.3	27.0	30.2				
						0.2	292.0	20.5	20.5	30.1	30.1	7.9	7.9	91.8	91.8	6.9	6.9	6.9	14.5	14.3								
					B	0.1	310.0	20.5	20.5	30.1	30.1	8.0	8.0	92.3	92.4	7.0	7.0	7.0	15.3	15.5					14.9	33.8	33.4	
						0.1	314.0	20.5	20.5	30.1	30.1	8.0	8.0	92.4	92.4	7.0	7.0	7.0	15.8	15.5					14.9	32.9	33.4	
IM17	Fine	Moderate	07:22	4.1	S	0.4	304.0	20.6	20.6	30.1	30.1	7.9	7.9	91.6	91.6	6.9	6.9	6.9	9.7	9.6	12.3	11.8	12.4	18.4				
						0.5	319.0	20.6	20.6	30.1	30.1	7.9	7.9	91.6	91.6	6.9	6.9	6.9	9.5	9.6								
					B	0.4	314.0	20.7	20.7	30.3	30.3	7.9	7.9	91.5	91.6	6.9	6.9	6.9	15.2	14.9					12.3	24.6	24.4	
						0.4	340.0	20.7	20.7	30.3	30.3	7.9	7.9	91.6	91.6	6.9	6.9	6.9	14.7	14.9					12.3	24.2	24.4	
IM18	Fine	Rough	09:20	16.6	S	0.3	320.0	20.6	20.6	29.8	29.8	7.9	7.9	92.1	92.1	7.0	7.0	6.9	5.6	5.6	7.0	9.4	9.5	12.5				
						0.3	329.0	20.6	20.6	29.8	29.8	7.9	7.9	92.1	92.1	7.0	7.0	6.9	5.6	5.6								
					M	0.5	337.0	20.7	20.7	30.2	30.2	7.9	7.9	90.7	90.7	6.8	6.8	6.8	6.2	6.3					7.0	6.3	11.5	11.7
						0.5	337.0	20.7	20.7	30.2	30.2	7.9	7.9	90.7	90.7	6.8	6.8	6.8	6.2	6.3					7.0	6.3	11.9	11.7
					B	0.6	326.0	20.8	20.8	31.2	31.2	7.9	7.9	88.4	88.5	6.6	6.6	6.6	9.2	9.2					7.0	9.2	16.6	16.3
						0.6	342.0	20.8	20.8	31.2	31.2	7.9	7.9	88.5	88.5	6.6	6.6	6.6	9.1	9.2					7.0	9.2	15.9	16.3
IM19	Fine	Rough	09:05	17.0	S	0.6	337.0	20.5	20.5	29.8	29.8	7.9	7.9	93.1	93.1	7.0	7.0	6.9	4.8	4.8	5.8	4.8	4.8	8.3				
						0.6	1.0	20.5	20.5	29.9	29.8	7.9	7.9	93.1	93.1	7.0	7.0	6.9	4.8	4.8								
					M	0.8	344.0	20.8	20.8	30.4	30.4	7.9	7.9	90.6	90.7	6.8	6.8	6.8	5.7	5.7					5.8	5.7	7.6	7.6
						0.8	13.0	20.8	20.8	30.4	30.4	7.9	7.9	90.7	90.7	6.8	6.8	6.8	5.8	5.7					5.8	5.7	7.5	7.6
					B	0.7	341.0	20.8	20.8	30.7	30.7	7.9	7.9	91.3	91.4	6.8	6.8	6.8	7.0	7.0					6.8	7.0	9.8	9.7
						0.7	346.0	20.8	20.8	30.7	30.7	7.9	7.9	91.4	91.4	6.8	6.8	6.8	7.1	7.0					6.8	7.1	9.6	9.7
IM20A	Fine	Moderate	08:32	4.0	S	0.3	63.0	20.6	20.6	28.9	28.9	7.9	7.9	97.3	97.2	7.4	7.4	7.4	7.3	7.3	8.4	12.3	12.1	14.1				
						0.3	68.0	20.6	20.6	28.9	28.9	7.9	7.9	97.1	97.2	7.4	7.4	7.4	7.3	7.3								
					B	0.3	75.0	20.8	20.8	29.8	29.8	7.9	7.9	95.2	95.3	7.2	7.2	7.2	9.4	9.6					8.4	16.3	16.1	
						0.3	77.0	20.8	20.8	29.8	29.8	7.9	7.9	95.3	95.3	7.2	7.2	7.2	9.8	9.6					8.4	15.8	16.1	
IM21A	Fine	Moderate	08:42	4.7	S	0.3	262.0	21.2	21.2	29.2	29.2	7.9	7.9	100.0	100.0	7.5	7.5	7.5	10.3	10.2	11.2	15.1	15.3	16.0				
						0.3	266.0	21.2	21.2	29.2	29.2	7.9	7.9	100.0	100.0	7.5	7.5	7.5	10.1	10.2								
					B	0.2	298.0	21.1	21.1	29.4	29.4	7.9	7.9	99.2	99.3	7.4	7.4	7.4	12.3	12.1					11.2	16.8	16.7	
						0.2	319.0	21.1	21.1	29.4	29.4	7.9	7.9	99.4	99.3	7.5	7.4	7.4	12.0	12.1					11.2	16.5	16.7	
IM22A	Fine	Moderate	08:49	4.4	S	0.1	197.0	20.5	20.5	30.0	30.0	7.9	7.9	93.1	93.1	7.0	7.0	7.0	9.3	9.3	10.8	18.2	18.7	20.7				
						0.1	198.0	20.5	20.5	30.0	30.0	7.9	7.9	93.1	93.1	7.0	7.0	7.0	9.3	9.3								
					B	0.1	193.0	20.4	20.4	30.1	30.1	7.9	7.9	92.5	92.5	7.0	7.0	7.0	12.2	12.2					10.8	22.4	22.8	
						0.1	200.0	20.4	20.4	30.1	30.1	7.9	7.9	92.5	92.5	7.0	7.0	7.0	12.3	12.2					10.8	23.1	22.8	

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		Value
E1	Cloudy	Moderate	04:13	8.3	S	0.5	156.0	20.6	20.6	32.2	32.2	8.1	8.1	88.3	88.3	6.6	6.6	4.8	4.8	6.6	6.6	7.6	9.7
						1.2	232.6	20.6		32.2	32.2	8.1		88.2	88.2	6.6		4.7		7.8			
						1.0	200.7	20.6		32.2	32.2	8.1		88.4	88.4	6.6		5.8		8.4			
					M	0.8	139.3	20.6	32.2	32.2	8.1	88.3	88.4	6.6	5.7	8.4	8.0	8.4					
						B	0.5	258.7	20.6	32.2	32.2	8.1	90.0	89.3	6.7	6.6	7.1	7.0	12.9	13.1			
							0.5	258.7	20.6	32.2	32.2	8.1	88.5	88.5	6.6	6.6	6.9	13.3					
E2	Cloudy	Moderate	00:55	9.3	S	0.3	251.3	20.5	20.5	32.5	32.5	8.0	8.0	96.0	96.0	7.1	7.1	3.6	3.7	7.1	7.1	5.3	8.5
						0.2	170.2	20.5		32.5	32.5	8.0		96.0	96.0	7.1		3.7		5.3			
						0.3	73.8	20.6		32.6	32.5	8.0		94.9	95.1	7.1		4.3		8.2			
					M	0.3	73.8	20.6	32.5	32.5	8.0	95.3	95.1	7.1	3.9	8.2	8.2	8.2					
						B	0.1	337.3	20.6	32.6	32.6	8.0	93.6	93.3	7.0	6.9	8.9	9.2	11.5	11.9			
							0.8	113.1	20.6	32.6	32.6	8.0	92.9	93.3	6.9	6.9	9.5	12.3					
E3	Foggy	Rough	02:23	16.8	S	0.7	112.0	19.7	19.7	33.1	33.1	8.1	8.1	102.2	102.2	7.7	7.7	2.0	2.0	7.7	7.7	3.0	5.9
						0.7	119.0	19.7		33.1	33.1	8.1		102.2	102.2	7.7		2.0		3.4			
						0.6	118.0	19.8		33.7	33.7	8.1		102.1	102.1	7.6		3.3		6.0			
					M	0.6	128.0	19.8	33.7	33.7	8.1	102.1	102.1	7.6	3.3	6.0	6.2	6.0					
						B	0.5	130.0	20.0	33.8	33.8	8.1	99.8	99.9	7.4	7.4	9.4	8.5	8.5				
							0.6	130.0	20.0	33.8	33.8	8.1	100.0	99.9	7.4	7.4	10.6	10.0					
E4	Foggy	Rough	04:18	11.2	S	1.0	182.0	19.9	19.9	32.9	32.9	8.1	8.1	98.2	98.2	7.4	7.4	13.5	13.5	7.4	7.4	14.5	20.1
						1.1	198.0	19.9		32.9	32.9	8.1		98.2	98.2	7.4		13.5		14.7			
						0.9	177.0	19.9		33.0	33.0	8.1		98.1	98.1	7.4		14.4		22.3			
					M	0.9	179.0	19.9	33.0	33.0	8.1	98.1	98.1	7.4	14.1	22.3	22.3	22.3					
						B	0.8	174.0	19.9	33.0	33.0	8.1	98.2	98.2	7.4	7.4	34.0	33.6	23.3	23.4			
							0.8	183.0	19.9	33.0	33.0	8.1	98.2	98.2	7.4	7.4	33.1	33.6	23.5				
E5	Foggy	Moderate	03:54	5.8	S	0.7	197.0	19.8	19.8	30.9	30.8	8.0	8.0	95.6	95.6	7.3	7.3	14.2	14.3	7.3	7.3	14.6	19.7
						0.7	204.0	19.8		30.8	30.8	8.0		95.6	95.6	7.3		14.3		15.3			
					B	0.5	200.0	19.8	31.0	31.0	8.0	95.4	95.4	7.3	7.3	21.1	21.5	23.5	24.2				
						0.5	211.0	19.8	31.0	31.0	8.0	95.4	95.4	7.3	7.3	22.0	21.5	24.8					
E6	Foggy	Moderate	03:01	5.9	S	0.8	150.0	20.1	20.1	29.6	29.6	7.9	7.9	92.4	92.4	7.0	7.0	5.5	5.5	7.0	7.0	9.6	12.0
						0.9	158.0	20.1		29.6	29.6	7.9		92.4	92.4	7.0		5.5		9.6			
					B	0.6	148.0	20.2	30.8	30.8	7.9	92.1	92.1	7.0	7.0	8.8	8.8	14.4	14.4				
						0.6	160.0	20.2	30.8	30.8	7.9	92.1	92.1	7.0	7.0	8.8	8.8	14.3					
E7A	Foggy	Moderate	02:42	5.5	S	0.4	193.0	20.4	20.4	30.0	30.0	7.9	7.9	90.6	90.6	6.9	6.9	4.0	4.0	6.9	6.9	7.4	9.0
						0.4	198.0	20.4		30.0	30.0	7.9		90.6	90.6	6.9		4.0		7.2			
					B	0.3	179.0	20.4	30.4	30.4	7.9	90.6	90.6	6.8	6.8	4.6	4.6	10.9	10.7				
						0.3	196.0	20.4	30.4	30.4	7.9	90.6	90.6	6.8	6.8	4.6	4.6	10.5					
F1	Cloudy	Moderate	03:21	20.0	S	0.1	77.3	19.9	19.9	32.3	32.3	8.2	8.2	98.7	98.8	7.4	7.4	2.4	2.3	7.4	7.4	4.3	8.8
						0.1	77.3	19.9		32.3	32.3	8.2		98.9	98.8	7.5		2.2		3.9			
						0.8	124.8	19.9		32.4	32.4	8.2		97.1	97.2	7.3		5.7		6.3			
					M	0.3	201.3	19.9	32.4	32.4	8.2	97.3	97.2	7.3	4.9	6.0	6.3	6.3					
						B	0.5	74.8	19.9	32.4	32.4	8.2	96.6	96.6	7.3	7.3	9.2	9.5	16.2	16.1			
							0.5	122.8	19.9	32.4	32.4	8.2	96.5	96.6	7.3	7.3	9.7	9.5	15.9				
F2	Cloudy	Moderate	02:52	19.3	S	0.4	168.2	19.8	19.8	32.3	32.3	8.2	8.2	98.5	98.5	7.4	7.4	3.5	3.3	7.4	7.4	3.8	9.7
						0.2	93.1	19.8		32.3	32.3	8.2		98.5	98.5	7.4		3.1		3.7			
						0.3	88.2	19.8		32.3	32.3	8.2		97.7	97.7	7.4		4.6		10.1			
					M	0.8	103.8	19.8	32.3	32.3	8.2	97.7	97.7	7.4	4.4	10.5	10.1	10.5					
						B	0.3	49.0	19.9	32.3	32.3	8.2	97.1	97.1	7.3	7.3	9.9	9.1	15.6	15.2			
							0.2	296.7	19.9	32.3	32.3	8.2	97.1	97.1	7.3	7.3	8.3	9.1	14.8				

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	DA*	Average	DA*	Value	Average	Value		Average	Value	Average	Value	Average
F3	Cloudy	Moderate	02:17	18.0	S	0.6	17.4	19.9	19.9	32.4	32.4	8.2	8.2	100.1	100.1	7.5	7.5	7.5	1.8	1.7	2.7	5.4	5.2	6.8	<0.001		
						0.3	226.3	19.9		32.4	32.4	8.2		100.1	100.1	7.5	7.5		1.6	1.7		4.9	<0.001				
						0.9	354.0	19.9		32.4	32.4	8.2		99.2	99.3	7.5	7.5		2.1	2.0		6.5	<0.001				
					M	1.2	66.3	19.9	19.9	32.4	32.4	8.2	8.2	99.3	99.3	7.5	7.5	1.9	2.0	2.7	7.0	6.8	6.8	0.009			
						B	0.5	213.3	20.0	20.0	32.4	32.4	8.2	8.2	98.6	98.6	7.4	7.4	7.4	7.4	4.4	4.7	4.4	8.5	8.5	<0.001	
							0.8	129.8	20.0	20.0	32.4	32.4	8.2	8.2	98.5	98.6	7.4	7.4	7.4	7.4	4.4	4.1	4.4	8.7	8.5	<0.001	
F4	Cloudy	Moderate	01:21	14.0	S	1.6	147.2	20.5	20.5	32.6	32.6	8.1	8.1	98.6	98.7	7.3	7.3	7.3	3.8	3.9	5.9	8.2	8.1	10.0	<0.001		
						1.6	147.2	20.5	20.5	32.6	32.6	8.1		98.7	98.7	7.3	7.3		4.0	3.9		8.0	<0.001				
					M	0.2	41.8	20.4	20.4	32.6	32.6	8.1	8.1	98.6	98.6	7.3	7.3	7.3	7.3	4.3	4.4	4.3	8.3	8.4	10.0	<0.001	
						0.8	56.2	20.4	20.4	32.6	32.6	8.1	8.1	98.6	98.6	7.3	7.3	7.3	7.3	4.3	4.2	4.3	8.4	8.4	10.0	<0.001	
					B	0.8	80.3	20.4	20.4	32.6	32.6	8.1	8.1	98.3	98.3	7.3	7.3	7.3	7.3	9.5	9.1	9.5	13.0	13.7	10.0	<0.001	
						1.4	32.8	20.4	20.4	32.6	32.6	8.1	8.1	98.2	98.3	7.3	7.3	7.3	7.3	9.5	9.8	9.5	14.3	13.7	10.0	<0.001	
F5	Foggy	Moderate	03:40	5.7	S	0.5	199.0	19.8	19.8	31.6	31.6	8.0	8.0	97.0	97.0	7.4	7.4	7.4	11.2	11.2	12.2	15.2	15.6	17.7	<0.001		
						0.5	215.0	19.8	19.8	31.6	31.6	8.0		97.0	97.0	7.4	7.4		11.3	11.2		16.0	<0.001				
					B	0.4	202.0	19.8	19.8	31.6	31.6	8.0	8.0	96.9	96.9	7.3	7.3	7.3	7.3	13.2	13.4	13.2	19.3	19.7	17.7	<0.001	
						0.4	220.0	19.8	19.8	31.6	31.6	8.0	8.0	96.9	96.9	7.3	7.3	7.3	7.3	13.2	13.1	13.2	20.1	19.7	17.7	<0.001	
F6	Foggy	Moderate	00:57	13.4	S	0.5	129.0	20.0	20.0	31.0	31.0	7.9	7.9	94.4	94.4	7.2	7.1	7.1	7.3	7.4	13.6	6.2	6.4	22.6	<0.001		
						0.5	132.0	20.0	20.0	31.0	31.0	7.9		94.3	94.4	7.1	7.1		7.4	7.4		6.5	<0.001				
					M	0.5	121.0	20.1	20.1	31.4	31.4	7.9	7.9	92.4	92.4	7.0	7.0	7.0	7.0	21.0	21.0	21.0	30.4	30.2	22.6	<0.001	
						0.5	128.0	20.1	20.1	31.4	31.4	7.9	7.9	92.4	92.4	7.0	7.0	7.0	7.0	21.0	21.0	21.0	29.9	30.2	22.6	<0.001	
					B	0.4	119.0	20.3	20.3	31.6	31.6	7.8	7.8	88.9	88.9	6.7	6.7	6.7	6.7	12.5	12.7	12.5	30.6	31.4	22.6	<0.001	
						0.5	119.0	20.3	20.3	31.6	31.6	7.8	7.8	88.9	88.9	6.7	6.7	6.7	6.7	12.5	12.3	12.5	32.0	31.4	22.6	<0.001	
IM1	Cloudy	Moderate	03:39	9.3	S	0.3	158.2	20.2	20.2	32.4	32.4	8.2	8.2	98.5	98.6	7.4	7.4	7.4	4.3	4.0	5.8	5.7	5.5	8.5	<0.001		
						0.1	217.7	20.2	20.2	32.4	32.4	8.2		98.6	98.6	7.4	7.4		3.7	4.0		5.3	<0.001				
					M	0.8	53.5	20.0	20.0	32.4	32.4	8.2	8.2	98.0	98.0	7.4	7.4	7.4	7.4	6.4	6.4	6.4	9.1	8.8	8.5	<0.001	
						0.4	79.9	20.0	20.0	32.4	32.4	8.2	8.2	98.0	98.0	7.4	7.4	7.4	7.4	6.4	6.3	6.4	8.4	8.8	8.5	<0.001	
					B	0.8	41.4	20.0	20.0	32.4	32.4	8.2	8.2	98.1	98.0	7.4	7.4	7.4	7.4	7.1	6.8	7.1	11.1	11.3	8.5	<0.001	
						0.6	108.7	20.0	20.0	32.4	32.4	8.2	8.2	97.9	98.0	7.4	7.4	7.4	7.4	7.1	7.4	7.1	11.4	11.3	8.5	<0.001	
IM2	Cloudy	Moderate	04:01	11.2	S	0.7	198.3	20.6	20.6	32.3	32.3	8.1	8.1	89.7	89.7	6.7	6.7	6.7	3.6	3.5	4.3	5.0	4.8	6.1	<0.001		
						0.4	170.5	20.6	20.6	32.3	32.3	8.1		89.7	89.7	6.7	6.7		3.4	3.5		4.6	<0.001				
					M	0.6	241.8	20.5	20.5	32.3	32.3	8.1	8.1	90.6	90.6	6.7	6.7	6.7	6.7	4.3	4.3	4.3	6.2	6.0	6.1	<0.001	
						0.3	224.3	20.5	20.5	32.3	32.3	8.1	8.1	89.8	89.8	6.7	6.7	6.7	6.7	4.3	4.2	4.3	5.8	6.0	6.1	<0.001	
					B	0.1	27.5	20.5	20.5	32.4	32.4	8.1	8.1	91.6	91.7	6.8	6.8	6.8	6.8	5.2	4.8	5.2	7.2	7.5	6.1	<0.001	
						0.7	260.7	20.5	20.5	32.4	32.4	8.1	8.1	91.7	91.7	6.8	6.8	6.8	6.8	5.2	5.6	5.2	7.8	7.5	6.1	<0.001	
IM3	Cloudy	Moderate	00:08	15.3	S	0.3	283.6	20.3	20.3	32.4	32.4	7.9	7.9	96.1	96.1	7.2	7.2	7.2	5.3	5.2	11.1	6.5	6.4	13.8	<0.001		
						0.5	320.4	20.4	20.4	32.4	32.4	7.9		96.1	96.1	7.2	7.2		5.1	5.2		6.3	<0.001				
					M	0.3	2.5	20.3	20.3	32.4	32.4	7.9	7.9	95.6	95.7	7.1	7.2	7.2	7.2	4.5	4.6	4.5	6.3	6.4	13.8	<0.001	
						0.6	53.3	20.3	20.3	32.4	32.4	7.9	7.9	95.8	95.7	7.2	7.2	7.2	7.2	4.5	4.4	4.5	6.5	6.4	13.8	<0.001	
					B	0.8	78.0	20.4	20.4	32.4	32.4	7.9	7.9	93.4	93.4	7.0	7.0	7.0	7.0	23.7	24.2	23.7	27.9	28.5	13.8	<0.001	
						0.8	78.0	20.4	20.4	32.4	32.4	7.9	7.9	93.3	93.4	7.0	7.0	7.0	7.0	23.7	23.1	23.7	29.0	28.5	13.8	<0.001	
IM4	Cloudy	Moderate	00:29	17.3	S	0.4	281.0	20.5	20.5	32.5	32.5	8.0	8.0	95.9	96.0	7.1	7.1	7.1	4.8	4.8	7.2	6.1	6.3	10.3	<0.001		
						0.3	53.1	20.5	20.5	32.5	32.5	8.0		96.1	96.0	7.2	7.1		4.8	4.8		6.4	<0.001				
					M	0.6	76.5	20.5	20.5	32.5	32.5	8.0	8.0	95.1	95.1	7.1	7.1	7.1	7.1	7.1	6.9	7.1	7.1	10.9	11.2	10.3	<0.001
						0.5	38.1	20.5	20.5	32.5	32.5	8.0	8.0	95.0	95.1	7.1	7.1	7.1	7.1	7.1	7.2	7.1	11.4	11.2	10.3	<0.001	
					B	0.9	311.1	20.5	20.5	32.5	32.5	8.0	8.0	94.3	94.3	7.0	7.0	7.0	7.0	9.8	10.4	9.8	14.0	13.6	10.3	<0.001	
						0.9	311.1	20.5	20.5	32.5	32.5	8.0	8.0	94.2	94.3	7.0	7.0	7.0	7.0	9.8	9.2	9.8	13.1	13.6	10.3	<0.001	
IM5	Cloudy	Moderate	01:50	15.3	S	1.2	100.1	20.1	20.1	32.4	32.4	8.2	8.2	100.0	100.1	7.5	7.5	7.5	1.7	1.7	7.1	2.3	2.2	12.3	<0.001		
						1.2	100.1	20.1	20.1	32.4	32.4	8.2		100.1	100.1	7.5	7.5		1.6	1.7		2.1	<0.001				
					M	0.6	86.2	20.0	20.0	32.4	32.4	8.2	8.2	98.9	99.0	7.4	7.4	7.4	7.4	2.1	2.1	2.1	5.2	5.6	12.3	<0.001	
						0.7	335.9	20.0	20.0	32.4	32.4	8.2	8.2	99.0	99.0	7.4	7.4	7.4	7.4	2.1	2.1	2.1	6.0	5.6	12.3	<0.001	
					B	1.4	117.7	20.3	20.2	32.5	32.5	8.1	8.1	96.6	96.6	7.2	7.2	7.2	7.2	17.5	18.6	17.5	28.1	29.2	12.3	<0.001	
						1.1	102.8	20.2	20.2	32.5	32.5	8.1	8.1	96.6	96.6	7.2	7.2	7.2	7.2	17.5	16.3	17.5	30.3	29.2	12.3	<0.001	

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*			
IM6	Cloudy	Moderate	02:06	16.2	S	0.2	123.9	19.9	19.9	32.4	32.4	8.2	8.2	100.5	100.5	7.6	7.6	7.5	1.7	1.7	2.6	3.9	3.9	6.4	<0.001			
						0.2	123.9	19.9		32.4	32.4	8.2		100.5		7.6			1.7			3.9			<0.001			
						0.2	124.4	20.0	20.0	32.5	32.4	8.2	100.0	7.5	2.2	6.7	<0.001											
					M	0.2	124.4	20.0	20.0	32.4	32.4	8.2	100.0	7.5	1.8	2.0	2.6	6.7	6.8	6.4	6.9	<0.002						
						B	0.6	222.9	20.1	20.1	32.5	32.5	8.2	8.2	99.4	99.4	7.5	7.5	7.5	4.0	4.0	8.7	<0.001					
							0.6	173.9	20.1		32.5	32.5	8.2	99.3	7.5		3.9			8.1		<0.001						
IM7	Foggy	Rough	01:07	15.1	S	0.1	46.0	19.7	19.7	33.8	33.8	8.1	8.1	103.0	103.0	7.7	7.7	7.7	1.4	1.4	1.8	5.9	5.7	4.2	<0.001			
						0.1	47.0	19.7		33.8	33.8	8.1		102.9		7.7			1.4			5.4			<0.001			
						0.3	121.0	19.7	19.7	33.8	33.8	8.1	102.7	7.7	1.6	4.3	<0.001											
					M	0.3	124.0	19.7	19.7	33.8	33.8	8.1	102.7	7.7	1.6	3.6	<0.001											
						B	0.2	158.0	19.8	19.8	33.8	33.8	8.1	8.1	102.1	102.1	7.6	7.6	7.6	2.3	2.3	2.9	3.1	2.9	3.8	4.0	4.2	<0.001
							0.2	159.0	19.8		33.8	33.8	8.1	102.1	7.6		2.3			2.7		<0.001						
IM8	Foggy	Rough	01:16	13.5	S	0.1	74.0	19.6	19.6	33.7	33.7	8.1	8.1	103.1	103.1	7.8	7.7	7.7	1.3	1.3	1.5	2.1	2.1	2.8	<0.001			
						0.1	74.0	19.6		33.7	33.7	8.1		103.1		7.7			1.3			2.0			<0.001			
						0.2	61.0	19.6	19.6	33.7	33.7	8.1	103.0	7.7	1.5	2.5	<0.001											
					M	0.2	62.0	19.6	19.6	33.7	33.7	8.1	103.0	7.7	1.5	2.5	<0.001											
						B	0.2	85.0	19.7	19.7	33.8	33.8	8.1	8.1	102.9	102.9	7.7	7.7	7.7	1.9	1.8	3.8	3.4	3.8	4.1	4.2	4.2	<0.001
							0.2	92.0	19.7		33.8	33.8	8.1	102.9	7.7		1.8			4.1		<0.001						
IM9	Foggy	Rough	01:48	15.1	S	0.3	112.0	19.8	19.8	33.8	33.8	8.1	8.1	102.9	102.9	7.7	7.7	7.7	1.9	1.9	2.4	4.1	4.3	4.0	<0.001			
						0.3	119.0	19.8		33.8	33.8	8.1		102.9		7.7			1.9			4.4			<0.001			
						0.3	132.0	19.8	19.8	33.8	33.8	8.1	102.5	7.7	2.5	3.9	<0.001											
					M	0.3	140.0	19.8	19.8	33.8	33.8	8.1	102.5	7.7	2.5	3.8	<0.001											
						B	0.3	129.0	19.9	19.9	33.8	33.8	8.1	8.1	102.3	102.3	7.6	7.6	7.6	2.9	2.9	3.8	3.8	3.8	3.7	4.0	4.0	<0.001
							0.3	141.0	19.9		33.8	33.8	8.1	102.3	7.6		2.9			3.7		<0.001						
IM10	Foggy	Rough	02:42	8.2	S	0.6	83.0	20.1	20.1	33.8	33.8	8.1	8.1	99.0	99.0	7.4	7.4	7.4	12.7	12.8	23.6	25.3	26.1	34.7	<0.001			
						0.7	83.0	20.1		33.8	33.8	8.1		99.0		7.4			12.8			26.8			<0.001			
						0.5	86.0	20.1	20.1	33.8	33.8	8.1	98.9	7.4	28.3	36.0	<0.001											
					M	0.5	88.0	20.1	20.1	33.8	33.8	8.1	98.9	7.4	28.7	36.2	<0.001											
						B	0.6	76.0	20.1	20.1	33.8	33.8	8.1	8.1	99.1	99.1	7.4	7.4	7.4	29.3	29.5	42.1	41.5	42.1	42.6	34.7	34.7	<0.001
							0.6	81.0	20.1		33.8	33.8	8.1	99.1	7.4		29.7			42.6		<0.001						
IM11A	Foggy	Rough	03:00	5.4	S	1.0	141.0	20.1	20.1	33.7	33.7	8.1	8.1	99.3	99.3	7.4	7.4	7.4	19.5	19.4	22.4	19.1	19.0	30.6	<0.001			
						1.1	146.0	20.1		33.7	33.7	8.1		99.3		7.4			19.3			18.9			<0.001			
						0.9	134.0	20.1	20.1	33.7	33.7	8.1	99.5	7.4	24.6	42.2	<0.001											
					M	1.0	144.0	20.1	20.0	33.5	33.5	8.1	98.8	7.4	26.1	43.8	<0.001											
						B	1.0	182.0	20.0	20.0	33.5	33.5	8.1	8.1	98.8	98.8	7.4	7.4	7.4	11.4	11.4	22.2	32.9	33.3	33.3	31.3	31.3	<0.001
							1.1	193.0	20.0		33.5	33.5	8.1	98.8	7.4		11.4			33.7			<0.001					
IM12	Foggy	Rough	03:12	15.6	S	0.9	178.0	20.1	20.1	33.6	33.6	8.1	8.1	98.8	98.8	7.4	7.4	7.4	21.8	21.6	21.6	32.8	32.8	31.3	<0.001			
						1.0	182.0	20.1		33.6	33.6	8.1		98.8		7.4			21.5			32.3			<0.001			
						0.7	171.0	20.1	20.1	33.6	33.6	8.1	99.2	7.4	28.1	27.8	<0.001											
					M	0.8	187.0	20.1	20.1	33.6	33.6	8.1	99.5	7.4	27.5	27.8	<0.001											
						B	1.1	229.0	19.8	19.8	32.9	32.9	8.1	8.1	98.5	98.6	7.4	7.4	7.4	4.1	4.1	21.8	11.8	11.7	11.7	13.5	13.5	<0.001
							1.2	231.0	19.8		32.9	32.9	8.1	98.6	7.4		4.1			11.6			<0.001					
IM13	Foggy	Rough	03:42	15.3	S	1.0	212.0	19.8	19.8	33.4	33.4	8.1	8.1	99.2	99.2	7.4	7.4	7.4	14.8	14.7	21.8	13.8	13.8	13.5	<0.001			
						1.1	214.0	19.8		33.4	33.4	8.1		99.2		7.4			14.7			13.8			<0.001			
						0.8	206.0	19.8	19.8	33.5	33.5	8.1	99.3	7.4	46.9	15.1	<0.001											
					M	0.8	215.0	19.8	19.8	33.5	33.5	8.1	99.3	7.4	46.5	15.0	<0.001											
						B	1.0	206.0	19.9	19.9	33.1	33.1	8.1	8.1	98.1	98.1	7.4	7.4	7.4	15.7	15.4	27.1	22.4	22.9	22.9	26.8	26.8	<0.001
							1.1	215.0	19.9		33.1	33.1	8.1	98.1	7.4		15.2			23.4			<0.001					
IM14	Foggy	Rough	03:57	10.1	S	1.0	200.0	19.9	19.9	33.2	33.2	8.1	8.1	98.1	98.1	7.4	7.4	7.4	19.9	19.5	27.1	25.1	24.6	26.8	<0.001			
						1.0	210.0	19.9		33.2	33.2	8.1		98.1		7.4			19.2			24.0			<0.001			
						0.8	195.0	19.9	19.9	33.2	33.2	8.1	98.1	7.4	32.2	33.0	<0.001											
					M	0.8	207.0	19.9	19.9	33.2	33.2	8.1	98.1	7.4	33.7	33.0	<0.001											

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*					
IM15	Foggy	Moderate	04:06	5.3	S	0.8	205.0	19.8	19.8	31.2	31.2	8.0	8.0	96.5	96.5	7.3	7.3	7.3	7.3	14.4	14.3	16.4	13.9	14.0	16.5					
						0.8	221.0	19.8		31.2	31.2	8.0		96.5	96.5	7.3		7.3	14.1	14.1										
					B	0.7	205.0	19.8	31.2	31.2	8.0	96.1	96.1	7.3	7.3	18.4	18.4	18.5	18.5	18.3	18.3									
						0.8	221.0	19.8	31.2	31.2	8.0	96.1	96.1	7.3	7.3	18.7	18.7	18.9	18.9											
IM16A	Foggy	Moderate	03:43	6.7	S	0.6	184.0	19.8	19.8	30.5	30.5	8.0	8.0	94.9	94.9	7.2	7.2	7.2	7.2	10.0	10.0	14.2	10.5	10.8	15.9					
						0.6	190.0	19.8		30.5	30.5	8.0		94.9	94.9	7.2		7.2	9.9	9.9										
					M	0.5	188.0	19.8	19.8	30.6	30.6	8.0	94.9	94.9	7.2	7.2	7.2	7.2	12.2	12.2	12.4	12.4	12.6	12.6		13.7	13.4			
						0.5	192.0	19.8		30.6	30.6	8.0	94.9	94.9	7.2		7.2	12.6	12.6											
					B	0.4	192.0	19.8	19.8	30.6	30.6	8.0	94.8	94.8	7.2	7.2	7.2	7.2	20.5	20.5	20.2	20.2	20.5	20.5		24.0	23.6			
						0.4	205.0	19.8		30.6	30.6	8.0	94.7	94.7	7.2		7.2	20.0	20.0											
IM17	Foggy	Moderate	03:23	5.4	S	0.6	161.0	19.9	19.9	29.9	29.9	7.9	7.9	93.6	93.6	7.2	7.2	7.2	7.2	12.5	12.3	13.4	14.3	14.1	14.9					
						0.6	161.0	19.9		29.9	29.9	7.9		93.6	93.6	7.2		7.2	12.2	12.2										
					B	0.5	162.0	19.9	19.9	29.9	29.9	7.9	93.6	93.6	7.1	7.1	7.1	7.1	14.5	14.5	14.4	14.4	14.3	14.3		16.0	15.7			
						0.5	175.0	19.9		29.9	29.9	7.9	93.6	93.6	7.1		7.1	15.3	15.3											
IM18	Foggy	Moderate	01:30	18.2	S	0.5	127.0	19.9	19.9	30.1	30.1	7.9	7.9	93.0	92.9	7.1	7.1	7.1	7.1	5.8	5.8	5.8	5.8	4.8	7.3					
						0.5	128.0	19.9		30.1	30.1	7.9		92.8	92.9	7.1		7.1	5.9	5.9										
					M	0.4	154.0	20.3	20.3	31.4	31.4	7.9	88.6	88.6	6.7	6.7	6.7	6.7	5.5	5.5	5.5	5.5	8.4	8.3						
						0.4	155.0	20.3		31.4	31.4	7.9	88.6	88.6	6.7		6.7	5.5	5.5											
					B	0.3	166.0	20.3	20.3	31.5	31.5	7.9	89.2	89.2	6.7	6.7	6.7	6.7	6.1	6.1	6.1	6.1	6.1	6.1		8.5	8.8			
						0.3	173.0	20.3		31.5	31.5	7.9	89.2	89.2	6.7		6.7	6.1	6.1											
IM19	Foggy	Moderate	01:43	18.6	S	0.5	156.0	20.1	20.1	30.2	30.2	7.9	7.9	93.2	93.2	7.1	7.1	7.1	7.1	4.6	4.6	5.8	5.4	5.5	6.2					
						0.5	158.0	20.1		30.2	30.2	7.9		93.1	93.2	7.1		7.1	4.6	4.6										
					M	0.5	168.0	20.4	20.4	31.0	31.0	7.9	91.0	91.0	6.9	6.9	6.9	6.9	5.0	5.0	5.0	5.0	5.0	5.0		5.8	5.8			
						0.5	169.0	20.4		31.0	31.0	7.9	91.0	91.0	6.9		6.9	5.0	5.0											
					B	0.5	167.0	20.4	20.4	31.2	31.2	7.9	90.7	90.8	6.8	6.8	6.8	6.8	7.8	7.8	7.7	7.7	7.7	7.7		7.4				
						0.5	173.0	20.4		31.2	31.2	7.9	90.8	90.8	6.8		6.8	7.6	7.6											
IM20A	Foggy	Moderate	02:21	4.6	S	0.5	242.0	20.6	20.6	30.2	30.2	7.8	7.8	89.6	89.6	6.8	6.8	6.8	6.8	5.9	5.9	6.6	7.5	7.8	9.5					
						0.5	245.0	20.6		30.2	30.2	7.8		89.6	89.6	6.8		6.8	6.0	6.0										
					B	0.4	233.0	20.5	20.5	30.6	30.6	7.9	89.4	89.5	6.7	6.7	6.7	6.7	7.3	7.3	7.3	7.3	7.3	7.3		11.1				
						0.4	250.0	20.5		30.6	30.6	7.9	89.5	89.5	6.7		6.7	7.3	7.3											
					IM21A	Foggy	Moderate	02:07	5.7	S	0.3	200.0	20.6	20.6	30.8	30.8	7.9	7.9	89.5	89.5	6.7	6.7	6.7	6.7		8.2	8.2	9.4	9.6	9.5
											0.3	209.0	20.6		30.8	30.8	7.9		89.5	89.5	6.7		6.7	8.2		8.2				
B	0.2	193.0	20.6	20.6						30.8	30.8	7.9	89.5	89.6	6.7	6.7	6.7	6.7	10.6	10.6	10.5	10.6	10.6	13.4	13.8					
	0.2	194.0	20.6							30.8	30.8	7.9	89.6	89.6	6.7		6.7	10.4	10.4											
IM22A	Foggy	Moderate	02:00	5.4	S	0.4	217.0	21.0	21.0	30.8	30.8	7.9	7.9	91.2	91.2	6.8	6.8	6.8	6.8	8.3	8.3	8.5	16.2	16.2	15.0					
						0.4	228.0	21.0		30.8	30.8	7.9		91.2	91.2	6.8		6.8	8.2	8.2										
					B	0.4	212.0	20.8	20.8	30.8	30.8	7.9	90.8	90.8	6.8	6.8	6.8	6.8	8.7	8.7	8.8	8.7	8.7	13.9						
						0.4	227.0	20.8		30.8	30.8	7.9	90.8	90.8	6.8		6.8	8.8	8.8											

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*
E1	Cloudy	Moderate	07:36	8.1	S	1.0	213.5	20.6	20.6	32.0	32.0	7.8	7.8	87.3	87.3	6.5	6.5	4.6	6.5	4.6	5.5	8.8	10.5	10.5	0.012
						0.2	190.0	20.6		32.0	32.0	7.8		87.3	87.3	6.5		4.5		4.6		8.2			
						1.6	169.0	20.6		32.0	32.0	7.8		87.0	87.0	6.5		6.1		5.8		10.8			
					M	0.3	333.7	20.6	20.6	32.0	32.0	7.8	87.0	87.0	6.5	6.5	5.5	5.8	10.1	10.5					
						B	0.3	177.8	20.6	20.6	32.0	32.0	7.8	88.1	87.5	6.6	6.5	6.5	6.0	6.0	12.5	12.5			
							0.7	38.2	20.6	20.6	32.0	32.0	7.8	86.8	87.5	6.5	6.5	6.0	6.0	12.5	12.5				
E2	Cloudy	Moderate	10:53	8.3	S	0.3	2.4	20.6	20.6	32.6	32.6	8.1	8.1	94.5	94.6	7.0	7.0	5.1	7.0	5.1	5.4	7.6	9.3	9.3	0.012
						0.3	293.5	20.6		32.6	32.6	8.1		94.6	94.6	7.0		5.0		4.9		8.4			
						0.0	72.9	20.6		32.6	32.6	8.1		94.6	94.6	7.0		4.8		4.9		8.6			
					M	1.0	329.9	20.6	20.6	32.6	32.6	8.1	94.5	94.6	7.0	7.0	4.9	4.9	9.2	8.9					
						B	0.8	216.1	20.6	20.6	32.6	32.6	8.1	94.6	94.5	7.0	7.0	6.8	6.2	10.9	11.1				
							1.2	343.9	20.6	20.6	32.6	32.6	8.1	94.3	94.5	7.0	7.0	5.5	5.5	11.2	11.1				
E3	Foggy	Rough	10:34	16.3	S	0.3	19.0	19.8	19.8	30.7	30.8	8.1	8.1	98.4	98.4	7.5	7.5	5.4	7.5	5.4	6.8	7.3	11.4	11.4	0.012
						0.3	19.0	19.8		30.8	30.8	8.1		98.4	98.4	7.5		5.4		5.4		8.1			
						0.4	301.0	19.9		32.4	32.4	8.1		99.1	99.1	7.5		6.8		6.8		9.5			
					M	0.4	310.0	19.9	19.9	32.4	32.4	8.1	99.1	99.1	7.5	7.5	6.8	6.8	9.9	9.7					
						B	0.7	278.0	19.9	19.9	32.7	32.6	8.1	98.8	98.8	7.4	7.4	9.1	9.0	16.5	16.9				
							0.7	278.0	19.9	19.9	32.6	32.6	8.1	98.8	98.8	7.4	7.4	8.9	9.0	17.2	16.9				
E4	Foggy	Rough	09:05	10.6	S	0.3	74.0	19.9	19.9	30.5	30.6	8.0	8.0	95.5	95.6	7.3	7.3	11.4	12.0	11.5	12.0	17.8	19.8	33.4	0.012
						0.3	79.0	19.9		30.6	30.6	8.0		95.6	95.6	7.3		11.5		11.5		17.6			
						0.3	14.0	19.9		31.9	31.9	8.1		96.5	96.6	7.3		9.1		9.1		20.3			
					M	0.3	14.0	19.9	19.9	32.0	31.9	8.1	96.6	96.6	7.3	7.3	9.2	9.1	20.8	20.6					
						B	0.5	12.0	19.9	19.9	32.6	32.6	8.1	96.8	96.8	7.3	7.3	15.2	15.4	21.0	21.3				
							0.5	12.0	19.9	19.9	32.6	32.6	8.1	96.8	96.8	7.3	7.3	15.6	15.4	21.5	21.3				
E5	Foggy	Moderate	08:12	5.1	S	0.4	252.0	20.1	20.1	30.5	30.5	7.9	7.9	91.4	91.4	6.9	6.9	17.1	22.2	17.1	22.2	23.6	33.4	0.012	
						0.4	253.0	20.1		30.5	30.5	7.9		91.3	91.4	6.9		17.1		17.1		24.8			
						0.3	254.0	20.1		30.5	30.5	7.9		91.1	91.1	6.9		27.1		27.3		42.4			
					B	0.3	255.0	20.1	20.1	30.5	30.5	7.9	91.1	91.1	6.9	6.9	27.6	27.3	42.7	42.6					
						S	0.4	349.0	20.3	20.3	27.7	27.7	7.8	90.5	90.5	7.0	6.9	6.9	5.3	5.3	8.5	8.5			
							0.4	12.0	20.3	20.3	27.8	27.7	7.8	90.4	90.5	6.9	6.9	5.3	5.3	8.4	8.5				
B	0.3	338.0	20.4	20.4	28.8	28.8	7.8	89.1	89.1	6.8	6.8	8.6	8.6	10.0	10.1										
	0.3	343.0	20.4	20.4	28.8	28.8	7.8	89.1	89.1	6.8	6.8	8.7	8.6	10.1	10.1										
	0.4	13.0	20.4	20.4	29.3	29.3	7.8	88.9	88.9	6.8	6.8	9.0	8.8	7.4	7.4										
B	0.3	4.0	20.4	20.4	29.6	29.6	7.8	88.5	88.5	6.7	6.7	16.9	17.0	25.3	24.7										
	0.4	4.0	20.4	20.4	29.6	29.6	7.8	88.5	88.5	6.7	6.7	17.1	17.0	24.1	24.7										
	0.4	241.6	20.4	20.4	32.3	32.3	8.0	97.1	96.8	7.3	7.2	2.0	2.0	2.9	3.1										
M	0.7	67.4	19.9	19.9	32.3	32.3	8.1	97.8	98.0	7.4	7.4	3.3	3.1	4.9	4.6										
	0.5	92.3	19.9	19.9	32.3	32.3	8.1	98.1	98.0	7.4	7.4	2.9	3.1	4.3	4.6										
	B	0.6	126.5	19.9	19.9	32.3	32.3	8.1	97.0	96.8	7.3	7.3	14.3	14.9	30.1	28.9									
0.1		321.8	19.9	19.9	32.3	32.3	8.1	96.6	96.8	7.3	7.3	15.4	14.9	27.6	28.9										
E7A	Foggy	Moderate	09:31	4.4	S	0.5	149.8	20.4	20.4	32.4	32.4	8.0	8.0	97.5	97.6	7.3	7.3	2.0	4.7	1.8	4.7	6.4	9.4	0.012	
						0.5	149.8	20.4		32.4	32.4	8.0		97.6	97.6	7.3		7.3		1.8		1.9			6.1
						0.9	82.8	20.0		20.0	32.3	32.3		8.1	97.3	97.3		7.3		7.3		3.8			3.5
					M	0.4	222.2	20.0	20.0	32.3	32.3	8.1	97.3	97.3	7.3	7.3	3.2	3.5	8.6	8.4					
						B	0.4	74.1	19.9	19.9	32.3	32.3	8.1	96.8	96.8	7.3	7.3	9.4	8.8	13.2	13.5				
							0.9	75.6	19.9	19.9	32.3	32.3	8.1	96.7	96.8	7.3	7.3	8.1	8.8	13.7	13.5				

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
F3	Cloudy	Moderate	09:37	17.2	S	0.3	64.8	20.1	20.1	32.4	32.4	8.2	8.2	102.7	103.0	7.7	7.7	7.7	7.7	2.2	2.1	4.4	4.4	0.025
						0.6	272.4	20.1		32.4		8.2		103.2		7.7		2.0		4.4		0.019		
						0.7	286.1	20.1		32.5		8.1		101.4		7.6		2.7		4.4		<0.001		
					M	0.5	296.0	20.1	32.5	8.1	101.4	7.6	2.6	4.1	<0.001									
						0.7	230.8	20.1	32.5	8.1	100.7	7.5	4.0	5.9	0.001									
						0.4	153.3	20.1	32.5	8.1	100.6	7.5	3.8	5.6	0.010									
B	1.1	39.5	20.6	32.5	8.1	97.6	7.3	6.7	10.0															
	1.1	310.8	20.6	32.5	8.1	97.9	7.3	6.8	9.7															
	0.7	292.8	20.5	32.5	8.1	96.0	7.1	12.7	19.0															
F4	Cloudy	Moderate	10:29	13.2	S	0.4	269.6	20.5	20.5	32.5	32.5	8.1	8.1	96.1	96.1	7.1	7.1	7.1	7.1	11.6	12.2	21.4	20.2	19.3
						0.2	269.7	20.5		32.5		8.1		95.9		7.1		16.9		28.8				
						0.2	269.7	20.5		32.5		8.1		95.8		7.1		15.9		27.2				
					M	0.7	292.8	20.5	32.5	8.1	96.0	7.1	12.7	19.0										
						0.4	269.6	20.5	32.5	8.1	96.1	7.1	11.6	21.4										
						0.2	269.7	20.5	32.5	8.1	95.9	7.1	16.9	28.8										
B	0.2	269.7	20.5	32.5	8.1	95.8	7.1	15.9	27.2															
	0.1	75.0	19.9	31.0	7.9	94.7	7.2	17.2	22.4															
	0.2	79.0	19.9	31.0	7.9	94.7	7.2	16.9	22.5															
F5	Foggy	Moderate	07:34	5.2	S	0.1	62.0	19.9	19.9	31.1	31.1	7.9	7.9	94.7	94.7	7.2	7.2	7.2	7.2	30.0	17.0	40.5	22.5	32.1
						0.1	63.0	19.9		31.1		7.9		94.6		7.2		30.6		42.9				
						0.4	332.0	20.3		30.3		7.9		90.5		6.8		10.6		12.7				
					M	0.4	355.0	20.3	30.3	7.9	90.5	6.9	10.8	12.8										
						0.3	328.0	20.3	30.3	7.9	90.0	6.8	18.3	26.2										
						0.4	328.0	20.3	30.3	7.9	90.0	6.8	18.3	27.6										
B	0.3	317.0	20.3	31.3	7.9	88.6	6.7	34.8	46.4															
	0.3	329.0	20.3	31.3	7.9	88.6	6.7	35.1	48.9															
	0.6	247.4	20.3	32.3	8.0	96.0	7.2	2.9	6.2															
IM1	Cloudy	Moderate	08:09	9.2	S	0.8	43.2	20.3	20.3	32.3	32.3	8.0	8.0	96.1	96.1	7.2	7.2	7.2	7.2	2.7	2.8	6.4	6.3	8.4
						0.2	294.5	20.3		32.4		8.0		95.7		7.2		4.0		8.5				
						0.4	33.5	20.3		32.4		8.0		95.7		7.2		3.4		8.6				
					M	0.3	130.3	20.2	32.3	8.0	96.4	7.2	5.0	10.1										
						0.3	130.3	20.3	32.3	8.0	96.2	7.2	4.6	10.7										
						0.4	241.7	20.6	32.1	7.9	88.7	6.6	3.9	6.9										
B	0.6	271.4	20.6	32.1	7.9	88.7	6.6	4.1	7.3															
	0.6	283.5	20.6	32.1	7.9	88.3	6.6	5.1	7.2															
	1.1	284.6	20.6	32.1	7.9	88.2	6.6	4.6	7.2															
IM2	Cloudy	Moderate	07:48	11.0	S	0.5	291.4	20.6	20.6	32.1	32.1	7.9	7.9	88.7	88.7	6.6	6.6	6.6	6.6	9.1	10.1	10.5	10.2	8.2
						1.0	248.2	20.6		32.1		7.9		88.5		6.6		11.0		9.9				
						0.6	29.6	20.6		32.3		8.1		94.7		7.0		3.9		6.4				
					M	0.6	29.6	20.6	32.3	8.1	95.0	7.1	3.5	6.4										
						0.7	355.1	20.5	32.4	8.1	93.9	7.0	5.6	10.2										
						0.7	355.1	20.5	32.4	8.1	93.9	7.0	5.6	9.6										
B	0.2	192.0	20.5	32.5	8.1	93.5	7.0	10.3	18.2															
	0.9	87.8	20.5	32.5	8.1	93.2	6.9	12.4	18.6															
	0.7	266.4	20.5	32.5	8.1	95.1	7.1	6.7	9.7															
IM3	Cloudy	Moderate	11:42	14.3	S	0.4	339.1	20.6	20.5	32.5	32.5	8.1	8.1	95.4	95.4	7.1	7.1	7.1	7.0	5.3	6.0	9.3	9.5	16.0
						0.3	254.4	20.5		32.5		8.1		94.2		7.0		8.3		12.4				
						0.3	224.1	20.5		32.5		8.1		94.1		7.0		9.0		11.5				
					M	0.5	283.2	20.5	32.5	8.1	93.4	7.0	17.4	26.1										
						0.6	233.1	20.5	32.5	8.1	93.3	6.9	16.5	26.8										
						0.7	276.0	20.2	32.5	8.1	100.1	7.5	3.2	6.8										
B	1.0	70.5	20.2	32.5	8.1	100.3	7.5	3.2	6.2															
	0.9	346.4	20.2	32.5	8.1	98.8	7.4	4.8	8.4															
	0.5	330.5	20.2	32.5	8.1	98.7	7.4	4.8	8.9															
IM4	Cloudy	Moderate	11:20	16.2	S	0.9	298.4	20.2	20.2	32.5	32.5	8.1	8.1	98.3	98.2	7.4	7.3	7.3	7.3	7.1	3.2	6.8	6.5	9.3
						1.0	70.5	20.2		32.5		8.1		100.3		7.5		3.2		6.2				
						0.9	346.4	20.2		32.5		8.1		98.8		7.4		4.8		8.4				
					M	0.5	330.5	20.2	32.5	8.1	98.7	7.4	4.8	8.9										
						0.9	298.4	20.2	32.5	8.1	98.3	7.4	7.1	12.9										
						0.9	298.4	20.2	32.5	8.1	98.0	7.3	8.3	12.6										
B	0.9	298.4	20.2	32.5	8.1	98.0	7.3	8.3	12.6															

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)	
						Value	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*
IM6	Cloudy	Moderate	09:48	15.3	S	0.6	141.3	20.2	20.2	32.5	32.5	8.1	8.1	101.8	101.9	7.6	7.6	7.6	2.6	2.5	3.1	3.7	3.6	6.5	0.025
						0.4	18.0	20.2		32.5		8.1		102.0		7.6			2.4			3.5			0.019
						0.6	239.9	20.2		32.5		8.1		100.9		7.6			3.0			7.1			<0.001
					M	0.4	252.2	20.2	32.5	8.1	101.0	7.6	2.8	6.7	<0.001										
						0.6	338.0	20.2	32.5	8.1	100.3	7.5	3.9	9.1	0.010										
						0.6	338.0	20.2	32.5	8.1	100.2	7.5	4.0	8.7	0.015										
IM7	Foggy	Rough	11:36	14.8	S	0.2	307.0	19.8	19.8	33.7	33.7	8.1	8.1	103.2	103.1	7.7	7.7	7.6	2.4	2.5	3.7	5.4	5.5	6.7	
						0.2	318.0	19.8		33.7		8.1		103.0		7.7			2.5			5.6			
						0.2	299.0	19.9		33.9		8.1		100.6		7.5			3.6			6.0			
					M	0.2	315.0	19.9	33.9	8.1	100.5	7.5	3.6	5.9											
						0.1	289.0	19.9	33.8	8.1	100.2	7.5	4.8	8.7											
						0.1	314.0	19.9	33.8	8.1	100.2	7.5	4.9	8.8											
IM8	Foggy	Rough	11:27	13.2	S	0.2	294.0	19.7	19.7	33.7	33.7	8.1	8.1	103.5	103.5	7.8	7.8	7.7	2.4	2.4	4.5	8.6	8.4	8.2	
						0.2	309.0	19.7		33.7		8.1		103.4		7.8			2.4			8.1			
						0.3	320.0	19.7		33.7		8.1		101.3		7.6			3.4			8.3			
					M	0.3	329.0	19.7	33.7	8.1	101.3	7.6	3.4	8.1											
						0.2	294.0	19.7	33.7	8.1	100.5	7.5	7.9	8.0											
						0.2	296.0	19.7	33.8	8.1	100.5	7.5	7.6	8.0											
IM9	Foggy	Rough	11:03	14.6	S	0.4	319.0	19.9	19.9	33.6	33.6	8.1	8.1	102.5	102.5	7.7	7.7	7.6	4.6	4.6	6.7	5.5	5.3	8.0	
						0.4	347.0	19.9		33.6		8.1		102.4		7.7			4.7			5.1			
						0.5	305.0	19.8		33.7		8.1		101.6		7.6			4.6			6.7			
					M	0.5	329.0	19.8	33.7	8.1	101.6	7.6	4.4	6.5											
						0.4	299.0	19.8	33.8	8.1	101.3	7.6	11.2	12.2											
						0.4	317.0	19.8	33.8	8.1	101.3	7.6	11.1	12.0											
IM10	Foggy	Rough	10:19	9.2	S	0.7	279.0	20.1	20.1	33.6	33.6	8.1	8.1	98.9	98.9	7.4	7.4	7.3	9.5	9.5	20.5	18.9	18.8	34.9	
						0.8	297.0	20.1		33.6		8.1		98.8		7.4			9.4			18.7			
						0.9	279.0	20.1		33.6		8.1		98.2		7.3			19.5			39.1			
					M	0.9	286.0	20.1	33.6	8.1	98.2	7.3	19.0	40.1											
						0.7	274.0	20.1	33.7	8.1	97.8	7.3	32.9	47.5											
						0.7	292.0	20.1	33.7	8.1	97.9	7.3	32.8	45.3											
IM11A	Foggy	Rough	10:01	5.5	S	1.1	283.0	20.1	20.1	33.7	33.7	8.1	8.1	97.6	97.6	7.3	7.3	7.3	42.3	42.3	46.5	71.0	70.3	62.1	
						1.1	297.0	20.1		33.7		8.1		97.6		7.3			42.4			69.6			
						1.0	293.0	20.1		33.7		8.1		98.2		7.3			50.7			52.8			
					B	1.0	299.0	20.1	33.7	8.1	98.3	7.3	50.8	54.9											
						1.0	312.0	20.0	33.6	8.1	98.3	7.3	32.2	64.6											
						1.0	323.0	20.0	33.6	8.1	98.3	7.3	31.6	63.0											
IM12	Foggy	Rough	09:49	14.3	S	1.0	307.0	20.1	20.1	33.1	33.1	8.1	8.1	99.1	99.1	7.4	7.4	7.4	37.4	37.4	36.4	46.8	46.3	48.1	
						1.0	333.0	20.1		33.1		8.1		99.1		7.4			37.4			45.7			
						0.9	315.0	20.0		33.6		8.1		98.2		7.3			39.8			35.6			
					B	0.9	323.0	20.0	33.6	8.1	98.3	7.3	39.9	32.8											
						0.4	78.0	19.8	29.5	8.1	96.3	7.4	8.8	12.3											
						0.4	78.0	19.8	29.5	8.1	96.3	7.4	8.9	13.3											
IM13	Foggy	Rough	09:25	15.7	M	0.3	352.0	19.9	19.9	32.3	32.3	8.1	8.1	96.8	96.8	7.3	7.3	7.3	10.1	10.2	17.2	14.5	14.8	15.5	
						0.3	3.0	19.9		32.3		8.1		96.8		7.3			10.2			15.0			
						0.5	353.0	19.9		33.0		8.1		96.4		7.2			32.9			19.3			
					B	0.5	18.0	19.9	33.0	8.1	96.4	7.2	32.1	18.3											
						0.6	17.0	19.8	32.4	8.1	98.6	7.4	7.2	13.6											
						0.6	17.0	19.8	32.4	8.1	98.6	7.4	7.5	13.0											
IM14	Foggy	Rough	09:16	10.4	S	0.7	7.0	19.9	19.9	32.9	32.9	8.1	8.1	97.2	97.2	7.3	7.3	7.4	9.0	8.6	15.4	15.7	15.7	17.8	
						0.8	7.0	19.9		32.9		8.1		97.2		7.3			8.1			15.6			
						0.6	3.0	19.9		33.1		8.1		97.4		7.3			30.4			24.5			
					B	0.6	17.0	19.8	32.4	8.1	98.6	7.4	7.2	13.6											
						0.7	7.0	19.9	32.9	8.1	97.2	7.3	9.0	15.7											
						0.8	7.0	19.9	32.9	8.1	97.2	7.3	8.1	15.6											

Water Quality Monitoring Data Log Sheet

Date: 2019/12/29

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM15	Foggy	Moderate	08:00	5.6	S	0.5	247.0	20.2	20.2	30.5	30.5	7.9	7.9	91.2	91.2	6.9	6.9	6.9	16.3	16.4	19.3	28.2	27.9	30.3
						0.5	251.0	20.2		30.5	30.5	7.9		91.2	91.2	6.9			16.5			27.6		
					B	0.4	250.0	20.2	30.5	30.5	7.9	7.9	91.0	91.0	6.9	6.9	22.0	22.3	19.3	33.1	32.8	19.3	32.4	
						0.4	269.0	20.2	30.5	30.5	7.9	91.0	91.0	6.9	6.9	22.6	32.4							
IM16A	Foggy	Moderate	08:28	5.3	S	0.5	269.0	20.2	20.2	30.4	30.4	7.9	7.9	90.8	90.8	6.9	6.9	6.9	14.3	14.3	16.5	20.5	19.9	22.4
						0.5	291.0	20.2		30.4	30.4	7.9		90.8	90.8	6.9			14.4			19.2		
					B	0.4	275.0	20.2	30.4	30.4	7.9	7.9	90.6	90.6	6.9	6.9	18.5	18.7	16.5	25.6	25.0	16.5	24.4	
						0.4	295.0	20.2	30.4	30.4	7.9	90.6	90.6	6.9	6.9	18.9	24.4							
IM17	Foggy	Moderate	08:49	4.2	S	0.3	317.0	20.2	20.2	29.1	29.1	7.9	7.9	90.1	90.1	6.9	6.9	6.9	7.7	7.7	9.4	11.8	11.7	16.9
						0.3	344.0	20.2		29.1	29.1	7.9		90.1	90.1	6.9			7.7			11.6		
					B	0.3	314.0	20.4	20.4	30.4	30.5	7.9	7.9	89.2	89.2	6.7	6.7	6.7	11.0	9.4	21.9	22.1	16.9	22.2
						0.3	339.0	20.4	30.5	30.5	7.9	89.2	89.2	6.7	6.7	11.1	22.2							
IM18	Foggy	Moderate	10:43	16.8	S	0.4	1.0	20.4	20.4	29.7	29.7	7.9	7.9	89.7	89.7	6.8	6.8	6.8	4.6	4.6	10.6	7.2	7.5	12.7
						0.4	1.0	20.4		29.7	29.7	7.9		89.7	89.7	6.8			4.6			7.8		
					M	0.5	348.0	20.4	20.4	30.4	30.4	7.9	7.9	88.9	88.9	6.7	6.7	6.7	9.1	10.6	11.2	11.6	10.6	11.9
						0.5	352.0	20.4	30.4	30.4	7.9	88.9	88.9	6.7	6.7	9.1	11.9							
					B	0.5	326.0	20.4	20.4	30.7	30.7	7.9	7.9	89.1	89.1	6.7	6.7	6.7	18.1	10.6	18.3	19.0	10.6	19.5
						0.6	334.0	20.4	30.7	30.7	7.9	89.1	89.1	6.7	6.7	17.8	18.4							
IM19	Foggy	Moderate	10:29	17.4	S	0.5	339.0	20.4	20.4	29.7	29.7	7.8	7.8	90.1	90.1	6.8	6.8	6.8	4.7	4.7	10.2	7.6	7.8	15.7
						0.5	2.0	20.4		29.7	29.7	7.8		90.1	90.1	6.8			4.7			7.9		
					M	0.7	339.0	20.6	20.6	30.6	30.6	7.9	7.9	90.7	90.7	6.8	6.8	6.8	9.2	10.2	15.6	16.0	10.2	16.4
						0.7	2.0	20.6	30.6	30.6	7.9	90.7	90.7	6.8	9.1	16.4								
					B	0.6	342.0	20.6	20.6	30.6	30.6	7.9	7.9	90.4	90.5	6.8	6.8	6.8	16.7	10.2	22.5	23.2	10.2	23.9
						0.6	351.0	20.6	30.6	30.6	7.9	90.5	90.5	6.8	6.8	16.5	23.9							
IM20A	Foggy	Moderate	09:53	3.9	S	0.5	56.0	20.3	20.3	29.3	29.3	7.8	7.8	87.9	87.9	6.7	6.7	6.7	8.9	9.0	11.4	15.5	15.9	20.3
						0.5	61.0	20.3		29.3	29.3	7.8		87.9	87.9	6.7			9.1			16.2		
					B	0.4	55.0	20.3	20.3	29.3	29.3	7.8	7.8	87.7	87.8	6.7	6.7	6.7	13.8	11.4	25.5	24.8	11.4	24.0
						0.4	57.0	20.3	29.3	29.3	7.8	87.8	87.8	6.7	6.7	13.8	24.0							
IM21A	Foggy	Moderate	10:06	4.7	S	0.4	28.0	21.6	21.6	30.0	30.0	7.8	7.8	92.5	92.5	6.8	6.8	6.8	13.4	13.4	13.3	19.2	19.6	21.7
						0.4	30.0	21.6		30.0	30.0	7.8		92.5	92.5	6.8			13.4			20.0		
					B	0.3	27.0	21.6	21.6	30.0	30.0	7.8	7.8	92.4	92.4	6.8	6.8	6.8	13.2	13.3	24.4	23.8	13.3	23.1
						0.3	27.0	21.6	30.0	30.0	7.8	92.4	92.4	6.8	6.8	13.2	23.1							
IM22A	Foggy	Moderate	10:13	5.0	S	0.1	147.0	20.4	20.4	30.0	30.0	7.8	7.8	88.2	88.2	6.7	6.7	6.7	13.6	13.8	15.5	18.9	18.3	24.6
						0.1	154.0	20.4		30.0	30.0	7.8		88.2	88.2	6.7			14.1			17.6		
					B	0.1	188.0	20.4	20.4	30.1	30.1	7.8	7.8	87.8	87.9	6.6	6.6	6.6	17.2	15.5	30.8	30.9	15.5	17.1
						0.1	206.0	20.4	30.1	30.1	7.8	87.9	87.9	6.6	6.6	17.3	31.0							

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: 2020/01/02

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*					
E1	Cloudy	Calm	06:09	8.2	S	0.7	210.6	20.4	20.4	32.1	32.1	8.1	8.1	90.0	90.0	6.7	6.7	6.7	4.9	4.9	5.3	7.2	7.4	8.7						
						0.7	210.6	20.4		32.1		8.1		89.9		6.7			4.9			7.6								
						0.2	276.1	20.4		32.1		8.1		89.9		6.7			5.3			8.5								
					M	0.2	166.6	20.4	20.4	32.1	32.1	8.1	8.1	89.9	89.9	6.7	6.7	6.7	4.9	5.1	5.3	8.5								
						0.4	179.6	20.4	20.4	32.1	32.1	8.1	8.1	91.7	91.7	6.9	6.9	6.9	5.9	5.9	5.3	10.5								
						0.5	193.0	20.4	20.4	32.1	32.1	8.1	8.1	91.7	91.7	6.9	6.9	6.9	5.9	5.9	5.3	9.8								
E2	Cloudy	Calm	02:50	9.1	S	0.9	182.7	20.2	20.2	32.3	32.3	8.1	8.1	95.7	95.7	7.2	7.2	7.2	7.3	7.5	7.2	9.5	9.3	10.6						
						0.6	350.5	20.2		32.3		8.1		95.7		7.2			7.7			9.0								
						0.6	356.6	20.2		20.2		32.3		32.3		8.1			8.1			95.5			95.5	7.1	7.1	7.1	7.5	7.5
					M	0.2	12.4	20.2	20.2	32.3	32.3	8.1	8.1	95.5	95.5	7.1	7.1	7.1	7.4	7.4	9.9									
						0.5	61.1	20.3	20.3	32.3	32.3	8.1	8.1	95.7	95.6	7.2	7.2	7.2	10.7	11.2	12.9									
						0.7	75.2	20.3	20.3	32.3	32.3	8.1	8.1	95.5	95.5	7.1	7.1	7.1	11.7	11.2	12.4									
E3	Cloudy	Rough	03:48	17.2	S	0.3	192.0	19.7	19.7	33.4	33.4	8.1	8.1	99.1	99.1	7.4	7.4	7.3	2.4	2.4	4.6	4.5	4.6	6.1						
						0.3	209.0	19.7		33.4		8.1		99.0		7.4			4.7											
						0.3	146.0	19.9		19.9		33.7		33.7		8.1			8.1			97.1			97.2	7.3	7.3	4.6	5.0	
					M	0.3	155.0	19.9	19.9	33.7	33.7	8.1	8.1	97.2	97.2	7.3	7.3	4.9	4.8	5.0										
						0.2	217.0	19.8	19.8	33.7	33.7	8.1	8.1	98.2	98.4	7.3	7.4	6.7	6.6	8.5										
						0.2	228.0	19.8	19.8	33.7	33.7	8.1	8.1	98.5	98.4	7.4	7.4	6.5	6.6	9.1										
E4	Cloudy	Moderate	05:30	11.8	S	0.7	181.0	19.7	19.7	32.5	32.5	8.1	8.1	97.6	97.6	7.4	7.4	7.3	2.5	2.5	5.5	4.6	4.7	5.5						
						0.7	182.0	19.7		32.5		8.1		97.6		7.4			4.7											
						0.6	181.0	19.9		19.9		33.0		33.0		8.1			8.1			96.5			96.5	7.2	7.2	3.6	3.6	5.2
					M	0.7	182.0	19.9	19.9	33.0	33.0	8.1	8.1	96.5	96.5	7.2	7.2	3.6	3.6	5.4										
						0.4	180.0	20.0	20.0	33.2	33.2	8.1	8.1	96.6	96.7	7.2	7.2	10.3	10.4	6.8										
						0.5	191.0	20.0	20.0	33.2	33.2	8.1	8.1	96.7	96.7	7.2	7.2	10.5	10.4	6.2										
E5	Fine	Moderate	05:19	6.2	S	0.4	183.0	19.7	19.7	30.4	30.4	8.0	8.0	95.5	95.5	7.3	7.3	7.3	3.9	3.9	4.9	4.4	4.7	5.6						
						0.4	185.0	19.7		30.4		8.0		95.5		7.3			5.0											
						0.3	185.0	19.7		19.7		30.5		30.5		8.0			8.0			95.7			95.7	7.3	7.3	5.1	5.1	5.5
					M	0.3	203.0	19.7	19.7	30.5	30.5	8.0	8.0	95.6	95.6	7.3	7.3	5.1	5.1	5.5										
						0.3	190.0	19.7	19.7	30.6	30.6	8.0	8.0	95.7	95.7	7.3	7.3	5.7	5.6	6.3										
						0.3	208.0	19.7	19.7	30.6	30.6	8.0	8.0	95.8	95.8	7.3	7.3	5.6	5.6	6.7										
E6	Fine	Moderate	04:25	6.8	S	0.5	157.0	20.0	20.0	29.7	29.7	7.9	7.9	92.0	92.0	7.0	7.0	7.0	3.0	3.1	5.1	5.2	5.5	7.4						
						0.5	159.0	20.0		29.7		7.9		92.0		7.0			5.7											
						0.4	146.0	20.0		20.0		30.1		30.1		7.9			7.9			91.8			91.7	7.0	7.0	4.3	4.4	6.9
					M	0.4	156.0	20.0	20.0	30.1	30.1	7.9	7.9	91.6	91.7	7.0	7.0	4.5	4.4	7.6										
						0.3	154.0	20.1	20.1	30.6	30.6	7.9	7.9	92.0	92.1	7.0	7.0	7.9	7.9	9.5										
						0.3	159.0	20.1	20.1	30.6	30.6	7.9	7.9	92.2	92.0	7.0	7.0	7.9	7.9	9.3										
E7A	Fine	Calm	04:08	5.2	S	0.3	207.0	20.2	20.2	29.3	29.3	7.8	7.8	88.9	88.9	6.8	6.8	6.8	4.8	4.9	4.6	4.5	4.4	5.7						
						0.3	218.0	20.2		29.4		7.8		88.7		6.8			4.2											
						0.3	185.0	20.4		20.4		30.1		30.1		7.7			7.7			89.3			89.5	6.8	6.8	4.3	4.3	6.6
					B	0.3	197.0	20.4	20.4	30.1	30.1	7.7	7.7	89.6	89.5	6.8	6.8	4.4	4.3	7.3										
						0.5	99.1	19.8	19.8	32.4	32.4	8.3	8.3	100.7	100.7	7.6	7.6	3.4	3.4	5.8										
						0.4	175.5	19.8	19.8	32.4	32.4	8.3	8.3	100.7	100.7	7.6	7.6	3.4	3.4	5.6										
F1	Cloudy	Calm	05:19	20.1	M	0.7	275.6	19.8	19.8	32.4	32.4	8.3	8.3	100.2	100.2	7.6	7.6	7.6	3.4	3.5	3.6	5.8	7.7	7.8						
						0.4	174.0	19.8		32.4		8.3		100.2		7.6			7.4											
						0.2	54.0	19.8		19.8		32.4		32.4		8.3			8.3			100.2			100.2	7.6	7.6	3.5	3.5	7.9
					B	1.1	140.0	19.8	19.8	32.4	32.4	8.3	8.3	99.7	99.8	7.5	7.5	3.8	4.1	10.1										
						0.4	197.8	19.8	19.8	32.4	32.4	8.3	8.3	101.2	101.3	7.6	7.6	2.4	2.5	6.8										
						1.0	132.1	19.8	19.8	32.3	32.3	8.3	8.3	101.3	101.3	7.6	7.6	2.5	2.5	6.5										
F2	Cloudy	Calm	04:49	19.3	S	0.6	98.6	19.8	19.8	32.4	32.4	8.3	8.3	100.6	100.7	7.6	7.6	7.6	2.7	2.6	2.7	8.5	8.3	8.5						
						0.3	346.3	19.8		19.8		32.4		32.4		8.3			8.3			100.7			100.7	7.6	7.6	2.5	2.6	8.1
						0.6	316.7	19.8		19.8		32.4		32.4		8.3			8.3			100.2			100.2	7.6	7.6	2.8	2.9	10.1
					M	1.1	59.5	19.8	19.8	32.4	32.4	8.3	8.3	100.1	100.2	7.6	7.6	3.0	2.9	10.7										
						0.4	197.8	19.8	19.8	32.4	32.4	8.3	8.3	101.2	101.3	7.6	7.6	2.4	2.5	6.8										
						1.0	132.1	19.8	19.8	32.3	32.3	8.3	8.3	101.3	101.3	7.6	7.6	2.5	2.5	6.5										

Water Quality Monitoring Data Log Sheet

Date: 2020/01/02

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
IM6	Cloudy	Calm	03:58	16.3	S	0.5	199.4	19.8	19.8	32.4	32.4	8.3	8.3	100.5	100.5	7.6	7.6	7.6	4.1	4.0	4.5	6.5	6.5	8.0	<0.001
						0.2	26.2	19.8		32.4	32.4	8.3		100.5		7.6			3.9			6.5			
						0.4	243.8	19.8		32.4	32.4	8.3		100.0		7.5			4.1			7.0			
					M	0.2	55.8	19.8	32.4	32.4	8.3	100.0	7.5	4.6	7.4	7.7	7.4	<0.001							
						B	0.3	46.8	19.8	32.4	32.4	8.2	99.8	7.5	4.9	10.2	9.7	<0.001							
							0.3	110.8	19.8	32.4	32.4	8.3	99.6	7.5	5.1	10.7	10.2	<0.001							
IM7	Cloudy	Rough	02:43	15.1	S	0.1	228.0	19.5	19.5	33.7	33.7	8.1	8.1	101.3	101.3	7.6	7.6	7.6	3.1	3.0	3.0	8.6	8.3	6.9	<0.001
						0.1	245.0	19.5		33.7	33.7	8.1		101.3		7.6			3.0			8.0			
					M	0.1	173.0	19.5	33.7	33.7	8.1	101.1	7.6	3.0	7.4	7.0	7.4	7.7							
						0.1	186.0	19.5	33.7	33.7	8.1	101.1	7.6	3.1	7.4	4.8	5.0								
					B	0.1	242.0	19.5	33.7	33.7	8.1	100.9	7.6	2.9	5.0	4.8	5.0								
						0.1	258.0	19.5	33.7	33.7	8.1	100.9	7.6	2.9	5.1	5.1	5.0								
IM8	Cloudy	Rough	02:54	13.3	S	0.2	243.0	19.4	19.4	33.7	33.7	8.2	8.2	101.4	101.4	7.6	7.6	7.6	3.1	3.1	3.1	4.0	4.3	5.0	<0.001
						0.2	253.0	19.4		33.7	33.7	8.2		101.4		7.6			3.0			4.5			
					M	0.2	275.0	19.4	33.7	33.7	8.2	101.2	7.6	3.1	4.7	4.4	4.7								
						0.2	283.0	19.4	33.7	33.7	8.2	101.2	7.6	3.2	4.9	4.9	4.7								
					B	0.0	39.0	19.4	33.7	33.7	8.1	101.1	7.6	3.0	6.2	5.9	6.2								
						0.0	39.0	19.4	33.7	33.7	8.1	101.1	7.6	3.0	6.5	6.5	6.2								
IM9	Cloudy	Rough	03:16	15.3	S	0.2	223.0	19.6	19.6	33.7	33.7	8.1	8.1	98.0	98.0	7.4	7.4	7.4	4.7	4.7	4.7	6.3	6.7	7.6	<0.001
						0.2	242.0	19.6		33.7	33.7	8.1		98.0		7.4			4.7			7.0			
					M	0.1	179.0	19.6	33.7	33.7	8.1	98.0	7.4	4.8	7.4	7.3	7.4								
						0.1	192.0	19.6	33.7	33.7	8.1	98.0	7.4	4.8	7.4	7.4	7.4								
					B	0.2	143.0	19.5	33.7	33.7	8.1	98.8	7.4	5.7	8.7	8.9	8.7								
						0.2	153.0	19.5	33.7	33.7	8.1	98.9	7.4	5.6	8.5	8.5	8.7								
IM10	Cloudy	Rough	04:06	10.2	S	0.4	103.0	19.8	19.8	33.3	33.3	8.1	8.1	97.1	97.1	7.3	7.3	7.3	4.7	4.7	4.7	6.2	6.3	7.3	<0.001
						0.4	103.0	19.8		33.3	33.3	8.1		97.1		7.3			4.7			6.3			
					M	0.4	96.0	19.8	33.4	33.4	8.1	96.7	7.3	4.9	7.1	7.2	7.1								
						0.4	99.0	19.8	33.4	33.4	8.1	96.7	7.2	5.0	7.0	7.1	7.1								
					B	0.5	86.0	19.9	33.6	33.6	8.0	97.4	7.3	8.8	8.7	8.8	8.7								
						0.5	88.0	19.9	33.6	33.6	8.0	97.6	7.3	7.5	8.5	8.7	8.7								
IM11A	Cloudy	Rough	04:21	5.4	S	0.6	164.0	20.0	20.0	33.5	33.5	8.1	8.1	96.1	96.1	7.2	7.2	7.2	10.6	10.7	10.7	16.2	16.7	21.8	<0.001
						0.7	169.0	20.0		33.5	33.5	8.1		96.1		7.2			10.7			17.1			
					B	0.5	142.0	20.0	33.5	33.5	8.1	96.7	7.2	9.3	27.0	27.0	27.0								
						0.5	151.0	20.0	33.5	33.5	8.1	96.8	7.2	8.5	26.2	26.2	27.0								
IM12	Cloudy	Moderate	04:34	15.4	S	0.9	183.0	19.9	19.9	33.1	33.1	8.1	8.1	96.8	96.8	7.3	7.3	7.3	3.4	3.4	3.4	5.6	6.0	7.5	<0.001
						1.0	188.0	19.9		33.1	33.1	8.1		96.8		7.3			3.3			6.3			
					M	0.6	168.0	20.0	33.5	33.5	8.1	96.3	7.2	8.1	7.1	7.2	7.1								
						0.6	179.0	20.0	33.5	33.5	8.1	96.3	7.2	8.3	7.0	7.1	7.1								
					B	0.6	163.0	20.0	33.5	33.5	8.1	96.5	7.2	9.1	9.5	9.1	9.5								
						0.6	177.0	20.0	33.5	33.5	8.1	96.6	7.2	12.8	12.9	9.9	9.5								
IM13	Cloudy	Moderate	05:04	15.9	S	0.7	197.0	19.7	19.7	32.6	32.6	8.1	8.1	97.8	97.8	7.4	7.4	7.4	2.5	2.5	2.5	4.3	4.5	5.7	<0.001
						0.7	198.0	19.7		32.6	32.6	8.1		97.8		7.4			2.5			4.7			
					M	0.7	190.0	19.9	33.2	33.2	8.1	96.4	7.2	5.5	5.2	5.3	5.2								
						0.7	192.0	19.9	33.2	33.2	8.1	96.4	7.2	5.4	5.1	5.1	5.2								
					B	0.5	192.0	19.9	33.3	33.3	8.1	97.5	7.3	8.8	7.4	7.2	7.4								
						0.5	209.0	19.9	33.3	33.3	8.1	97.8	7.3	8.7	7.5	7.5	7.4								
IM14	Cloudy	Moderate	05:16	11.0	S	0.8	226.0	19.7	19.7	32.7	32.7	8.1	8.1	96.9	96.9	7.3	7.3	7.3	2.7	2.7	2.7	3.8	4.0	5.4	<0.001
						0.9	234.0	19.7		32.7	32.7	8.1		96.8		7.3			2.7			4.2			
					M	0.7	225.0	19.9	33.1	33.1	8.1	96.5	7.2	5.7	4.6	4.8	4.6								
						0.8	237.0	19.9	33.1	33.1	8.1	96.5	7.2	5.7	4.3	4.6	4.6								
					B	0.6	223.0	19.9	33.2	33.2	8.1	97.0	7.3	7.2	7.6	7.2	7.6								
						0.6	241.0	19.9	33.2	33.2	8.1	97.1	7.3	14.7	14.6	7.9	7.6								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/02

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		Value
IM15	Fine	Moderate	05:29	6.3	S	0.6	201.0	19.6	19.6	31.0	31.0	8.0	8.0	96.4	96.4	7.4	7.4	7.4	4.3	4.3	7.8	7.5	9.3
						0.6	215.0	19.6	19.6	31.0	31.0	8.0	8.0	96.4	96.4	7.4	7.4	7.4	4.3	4.3	7.2	7.5	
						0.5	203.0	19.6	19.6	31.1	31.1	8.0	8.0	96.5	96.5	7.4	7.4	7.4	5.5	5.5	9.8	9.5	
					M	0.5	209.0	19.6	19.6	31.1	31.1	8.0	8.0	96.5	96.5	7.4	7.4	7.4	5.5	5.5	9.1	9.5	
						0.5	206.0	19.6	19.6	31.1	31.1	8.0	8.0	97.0	97.1	7.4	7.4	7.4	6.6	6.6	10.8	10.9	
						0.5	216.0	19.6	19.6	31.1	31.1	8.0	8.0	97.2	97.2	7.4	7.4	7.4	6.7	6.6	10.9	10.9	
IM16A	Fine	Moderate	05:07	6.6	S	0.4	175.0	19.8	19.8	30.3	30.3	7.9	7.9	93.2	93.2	7.1	7.1	7.1	4.4	4.5	5.2	5.5	6.7
						0.4	187.0	19.8	19.8	30.3	30.3	7.9	7.9	93.1	93.1	7.1	7.1	7.1	4.6	4.5	5.7	5.5	
						0.3	173.0	19.9	19.9	30.4	30.4	7.9	7.9	93.1	93.1	7.1	7.1	7.1	5.1	5.1	6.2	6.2	
					M	0.4	177.0	19.9	19.9	30.4	30.4	7.9	7.9	93.1	93.1	7.1	7.1	7.1	5.1	5.1	6.2	6.2	
						0.3	172.0	19.9	19.9	30.4	30.4	7.8	7.8	93.2	93.3	7.1	7.1	7.1	5.8	5.8	8.4	8.3	
						0.3	177.0	19.9	19.9	30.4	30.4	7.8	7.8	93.3	93.3	7.1	7.1	7.1	5.7	5.7	8.2	8.3	
IM17	Fine	Moderate	04:48	5.8	S	0.3	152.0	19.9	19.9	29.7	29.7	7.9	7.9	92.7	92.7	7.1	7.1	7.1	5.3	5.3	7.6	7.6	7.5
						0.4	158.0	19.9	19.9	29.7	29.7	7.9	7.9	92.7	92.7	7.1	7.1	7.1	5.3	5.3	7.5	7.6	
						0.3	156.0	19.9	19.9	29.7	29.7	7.8	7.8	93.0	93.1	7.1	7.1	7.1	9.0	9.0	7.4	7.4	
					B	0.4	157.0	19.9	19.9	29.7	29.7	7.8	7.8	93.1	93.1	7.1	7.1	7.1	8.7	8.8	7.3	7.4	
						0.2	137.0	20.0	20.0	30.1	30.1	7.8	7.8	91.9	91.9	7.0	7.0	7.0	4.1	4.1	4.8	5.1	
						0.2	145.0	20.0	20.0	30.1	30.1	7.8	7.8	91.8	91.9	7.0	7.0	7.0	4.0	4.0	5.4	5.1	
IM18	Fine	Moderate	03:01	18.4	M	0.2	150.0	20.2	20.2	31.0	31.0	7.8	7.8	88.7	88.8	6.7	6.7	6.6	4.1	4.0	6.7	6.7	6.7
						0.2	153.0	20.2	20.2	31.0	31.0	7.8	7.8	88.8	88.8	6.7	6.7	6.6	4.0	4.0	6.7	6.7	
						0.2	164.0	20.2	20.2	31.1	31.1	7.8	7.8	87.4	87.5	6.6	6.6	6.6	4.5	4.5	8.2	8.4	
					B	0.2	179.0	20.2	20.2	31.1	31.1	7.8	7.8	87.5	87.5	6.6	6.6	6.6	4.4	4.4	8.5	8.4	
						0.2	136.0	20.2	20.2	30.5	30.5	7.9	7.9	90.7	90.7	6.9	6.9	6.9	3.0	2.9	6.2	6.1	
						0.2	147.0	20.2	20.2	30.5	30.5	7.9	7.9	90.6	90.6	6.9	6.9	6.9	2.9	2.9	5.9	6.1	
IM19	Fine	Moderate	03:15	16.8	M	0.2	141.0	20.3	20.3	30.7	30.7	7.8	7.8	89.4	89.4	6.7	6.7	6.7	3.0	3.0	5.4	5.1	5.2
						0.2	150.0	20.3	20.3	30.7	30.7	7.8	7.8	89.4	89.4	6.7	6.7	6.7	3.0	3.0	4.8	5.1	
						0.3	161.0	20.4	20.4	30.9	30.9	7.8	7.8	88.5	88.6	6.7	6.7	6.7	3.3	3.4	4.4	4.3	
					B	0.3	163.0	20.4	20.4	30.9	30.9	7.8	7.8	88.6	88.6	6.7	6.7	6.7	3.4	3.4	4.2	4.3	
						0.4	244.0	20.5	20.5	29.8	29.8	7.8	7.8	87.7	87.8	6.6	6.6	6.6	6.1	6.0	11.5	11.7	
						0.4	259.0	20.5	20.5	29.8	29.8	7.8	7.8	87.9	87.9	6.6	6.6	6.6	5.9	6.0	11.8	11.7	
IM20A	Fine	Calm	03:48	5.3	B	0.3	231.0	20.6	20.6	30.4	30.4	7.8	7.8	89.5	89.6	6.7	6.7	6.7	3.5	3.5	8.8	9.2	10.4
						0.3	244.0	20.6	20.6	30.4	30.4	7.8	7.8	89.6	89.6	6.7	6.7	6.7	3.5	3.5	9.5	9.2	
						0.2	213.0	20.5	20.5	30.6	30.6	7.8	7.8	88.7	88.8	6.7	6.7	6.7	3.5	3.5	6.6	6.1	
					S	0.2	232.0	20.5	20.5	30.6	30.6	7.8	7.8	88.8	88.8	6.7	6.7	6.7	3.5	3.5	5.5	5.4	
						0.2	202.0	20.5	20.5	30.6	30.6	7.8	7.8	89.0	89.1	6.7	6.7	6.7	3.7	3.7	5.4	5.4	
						0.2	215.0	20.5	20.5	30.6	30.6	7.8	7.8	89.1	89.1	6.7	6.7	6.7	3.7	3.7	5.4	5.4	
IM21A	Fine	Calm	03:36	5.6	S	0.3	216.0	21.2	21.2	30.6	30.6	7.8	7.8	93.2	93.2	6.9	6.9	6.9	4.2	4.2	5.8	5.5	6.5
						0.3	216.0	21.2	21.2	30.6	30.6	7.8	7.8	93.1	93.2	6.9	6.9	6.9	4.2	4.2	5.2	5.5	
						0.3	222.0	21.1	21.1	30.6	30.6	7.8	7.8	92.8	92.9	6.9	6.9	6.9	4.3	4.3	7.8	7.5	
					B	0.3	222.0	21.1	21.1	30.6	30.6	7.8	7.8	92.8	92.9	6.9	6.9	6.9	4.3	4.3	7.8	7.5	
						0.3	242.0	21.1	21.1	30.6	30.6	7.8	7.8	92.9	92.9	6.9	6.9	6.9	4.3	4.3	7.2	7.5	
						0.3	242.0	21.1	21.1	30.6	30.6	7.8	7.8	92.9	92.9	6.9	6.9	6.9	4.3	4.3	7.2	7.5	

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/02

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
E1	Fine	Calm	09:57	8.3	S	0.8	220.6	20.3	20.3	32.0	32.0	7.8	7.8	84.7	84.7	6.3	6.3	6.3	6.3	3.6	3.4	3.8	9.6	8.0	
						0.4	13.8	20.3		32.0	32.0	7.8		84.6	84.7	6.3		3.2		8.3					
						0.4	287.8	20.3		32.0	32.0	7.8		84.5	84.5	6.3		3.6		10.3					
					M	0.7	257.7	20.3	32.0	32.0	7.8	84.4	84.4	6.3	6.3	3.6	3.6	10.1	10.2	9.6					
						B	0.5	109.3	20.3	32.0	32.0	7.8	84.9	84.7	6.4	6.3	4.3	4.3	10.4	10.5					
							0.4	43.1	20.3	32.0	32.0	7.8	84.5	84.5	6.3	6.3	4.2	4.3	10.6	10.5					
E2	Fine	Calm	13:08	8.3	S	0.6	317.8	20.3	20.3	32.4	32.4	8.1	8.1	95.3	95.4	7.1	7.1	7.1	7.1	5.1	5.0	5.0	14.6	9.3	
						0.6	317.8	20.3		32.4	32.4	8.1		95.5	95.4	7.1		4.9		9.4					
						0.4	199.0	20.2		32.4	32.4	8.1		94.4	94.6	7.1		6.7		11.4					
					M	0.4	199.0	20.2	32.4	32.4	8.1	94.7	94.6	7.1	7.1	6.1	6.4	11.1	11.3						
						B	0.4	349.8	20.2	32.4	32.4	8.1	94.0	93.8	7.0	7.0	14.4	14.7	23.3	23.1					
							0.3	181.5	20.2	32.4	32.4	8.1	93.5	93.8	7.0	7.0	15.0	14.7	22.9	23.1					
E3	Cloudy	Rough	11:55	16.3	S	0.2	26.0	19.7	19.7	30.8	30.8	8.1	8.1	98.2	98.2	7.5	7.4	7.5	7.5	3.2	3.2	3.2	9.0	8.0	
						0.2	27.0	19.7		30.8	30.8	8.1		98.2	98.2	7.5		3.2		8.6					
						0.3	335.0	19.8		32.4	32.4	8.1		97.3	97.3	7.3		3.5		8.9					
					M	0.3	355.0	19.8	32.4	32.4	8.1	97.2	97.3	7.3	7.3	3.6	3.5	9.0	9.0						
						B	0.5	323.0	19.9	33.4	33.4	8.1	96.6	96.6	7.2	7.2	9.9	9.5	10.0	9.8					
							0.5	326.0	19.9	33.4	33.4	8.1	96.6	96.6	7.2	7.2	9.2	9.5	9.6	9.8					
E4	Cloudy	Moderate	10:24	11.1	S	0.2	28.0	19.8	19.8	32.8	32.8	8.1	8.1	96.1	96.1	7.2	7.2	7.2	7.2	4.2	4.2	4.2	6.9	5.9	
						0.2	28.0	19.8		32.8	32.8	8.1		96.1	96.1	7.2		4.2		6.3					
						0.2	12.0	19.8		32.8	32.8	8.1		95.8	95.8	7.2		4.8		7.1					
					M	0.3	13.0	19.8	32.8	32.8	8.1	95.8	95.8	7.2	7.2	4.8	4.8	6.8	7.0						
						B	0.3	11.0	19.8	32.9	32.9	8.1	96.1	96.2	7.2	7.2	8.8	8.8	7.7	7.8					
							0.3	11.0	19.8	32.9	32.9	8.1	96.2	96.2	7.2	7.2	8.9	8.8	7.8	7.8					
E5	Cloudy	Moderate	10:36	5.6	S	0.1	303.0	19.9	19.9	29.9	29.9	7.9	7.9	92.3	92.4	7.0	7.0	7.0	7.0	8.1	8.1	8.1	13.4	12.3	
						0.1	328.0	19.9		29.9	29.9	7.9		92.4	92.4	7.1		7.1		8.1		8.1		12.5	12.4
						0.2	334.0	19.9		30.2	30.2	7.9		93.8	94.1	7.2		7.2		8.9		8.9		14.2	14.3
					B	0.2	355.0	19.9	30.2	30.2	7.9	94.3	94.1	7.2	7.2	9.0	8.9	14.4	14.3						
						S	0.2	341.0	20.2	26.4	26.4	7.8	91.4	91.4	7.1	7.1	3.3	3.3	4.4	4.5					
							0.2	356.0	20.2	26.4	26.4	7.8	91.4	91.4	7.1	7.1	3.3	3.3	4.6	4.5					
E6	Cloudy	Moderate	11:34	5.5	B	0.3	342.0	20.2	20.2	27.8	27.8	7.8	7.8	93.6	93.8	7.2	7.2	7.2	7.2	5.5	5.5	5.5	6.0	7.6	
						0.3	3.0	20.2		27.8	27.8	7.8		94.0	93.8	7.2		7.2		5.5		5.5		7.4	7.5
						0.3	14.0	20.0		28.2	28.3	7.8		90.6	90.6	7.0		7.0		4.9		5.1		5.6	5.7
					S	0.4	14.0	20.0	28.4	28.3	7.8	90.5	90.6	7.0	7.0	5.4	5.1	5.8	5.7						
						B	0.3	12.0	20.1	29.1	29.1	7.8	90.7	90.8	6.9	6.9	7.9	7.8	7.0	6.9					
							0.3	12.0	20.1	29.1	29.1	7.8	90.9	90.8	7.0	7.0	7.7	7.8	6.8	6.9					
E7A	Cloudy	Moderate	11:53	4.5	S	0.4	268.4	20.1	20.1	32.4	32.4	8.1	8.1	96.6	96.8	7.3	7.2	7.3	7.2	3.8	3.7	3.7	8.1	5.3	
						0.4	268.4	20.1		32.4	32.4	8.1		96.9	96.8	7.3		3.6		5.2					
						0.4	152.6	20.0		32.4	32.4	8.1		95.0	95.0	7.1		7.1		5.4		5.4		8.5	8.7
					M	0.4	152.6	20.0	32.4	32.4	8.1	95.0	95.0	7.1	7.1	5.3	5.4	8.9	8.7						
						B	0.4	93.2	20.0	32.4	32.4	8.1	95.3	95.3	7.2	7.2	6.4	6.9	10.3	10.5					
							0.8	95.9	20.0	32.4	32.4	8.1	95.2	95.3	7.2	7.2	7.4	6.9	10.6	10.5					
F1	Fine	Calm	10:46	20.0	S	0.3	190.7	19.8	19.8	32.4	32.4	8.1	8.1	100.6	100.7	7.6	7.6	7.6	7.6	2.1	2.1	2.1	7.8	4.8	
						0.5	288.8	19.8		32.4	32.4	8.1		100.8	100.7	7.6		2.1		5.2					
						0.6	284.7	19.8		32.4	32.4	8.1		99.9	100.0	7.5		2.4		6.8					
					M	0.4	11.9	19.8	32.4	32.4	8.1	100.0	100.0	7.5	7.5	2.3	2.4	6.5	6.7						
						B	0.4	299.2	19.8	32.4	32.4	8.1	100.2	99.6	7.6	7.5	6.6	7.0	11.7	11.9					
							1.0	36.8	19.8	32.4	32.4	8.1	99.0	99.6	7.5	7.5	7.4	7.0	12.0	11.9					
F2	Fine	Calm	11:14	19.0	S	0.3	190.7	19.8	19.8	32.4	32.4	8.1	8.1	100.6	100.7	7.6	7.6	7.6	7.6	2.1	2.1	2.1	7.8	4.8	
						0.5	288.8	19.8		32.4	32.4	8.1		100.8	100.7	7.6		2.1		5.2					
						0.6	284.7	19.8		32.4	32.4	8.1		99.9	100.0	7.5		2.4		6.8					
					M	0.4	11.9	19.8	32.4	32.4	8.1	100.0	100.0	7.5	7.5	2.3	2.4	6.5	6.7						
						B	0.4	299.2	19.8	32.4	32.4	8.1	100.2	99.6	7.6	7.5	6.6	7.0	11.7	11.9					
							1.0	36.8	19.8	32.4	32.4	8.1	99.0	99.6	7.5	7.5	7.4	7.0	12.0	11.9					

Water Quality Monitoring Data Log Sheet

Date: 2020/01/02

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*	
F3	Fine	Calm	11:49	17.3	S	0.6	273.1	19.9	19.9	32.5	32.5	8.1	8.1	97.8	97.9	7.4	7.4	7.3	4.1	4.2	4.6	10.2	10.6	11.4	<0.001	
						0.3	98.7	19.9		32.5	32.5	8.1		97.9	97.9	7.4	7.4		4.2	4.2		10.9			10.6	<0.001
						0.5	243.8	19.9		32.5	32.5	8.1		97.1	97.2	7.3	7.3		4.4	4.5		11.3			11.5	<0.001
					M	0.5	243.8	19.9	32.5	32.5	8.1	97.2	97.2	7.3	7.3	4.6	4.5	11.6	11.5	<0.001						
						0.2	348.2	19.9	32.5	32.5	8.1	96.7	96.7	7.3	7.3	5.5	5.1	11.9	12.2	<0.001						
						0.2	107.0	19.9	32.5	32.5	8.1	96.7	96.7	7.3	7.3	4.7	4.5	12.4	12.2	<0.001						
F4	Fine	Calm	12:42	13.1	S	0.3	278.8	20.3	20.3	32.5	32.5	8.1	8.1	94.6	94.6	7.1	7.1	7.0	7.4	7.4	14.9	13.7	13.8	25.1	<0.001	
						0.6	290.7	20.3		32.5	32.5	8.1		94.6	94.6	7.1	7.1		7.4	7.4		13.8				
						1.0	303.8	20.3		32.5	32.5	8.1		93.9	93.9	7.0	7.0		12.1	11.4		20.9				
					M	0.6	71.4	20.3	32.5	32.5	8.1	93.9	93.9	7.0	7.0	10.7	10.7	21.3	21.1	<0.001						
						0.5	322.4	20.3	32.5	32.5	8.0	93.6	93.6	7.0	7.0	27.6	25.9	40.9	40.5	<0.001						
						0.2	224.1	20.3	32.5	32.5	8.1	93.5	93.5	7.0	7.0	24.2	24.2	40.0	40.5	<0.001						
F5	Cloudy	Moderate	10:00	5.4	S	0.1	89.0	19.7	19.7	31.0	31.0	8.0	8.0	95.3	95.3	7.3	7.3	7.3	7.9	8.1	9.1	11.7	11.5	12.8	<0.001	
						0.1	95.0	19.7		31.0	31.0	8.0		95.3	95.3	7.3	7.3		8.4	8.1		11.3				
					B	0.2	53.0	19.6	31.3	31.2	8.0	95.5	95.6	7.3	7.3	10.0	10.1	14.0	14.1	<0.001						
						0.2	56.0	19.6	31.2	31.2	8.0	95.6	95.6	7.3	7.3	10.1	10.1	14.2	14.1	<0.001						
F6	Cloudy	Moderate	13:22	14.0	S	0.2	328.0	20.1	20.1	30.4	30.4	7.9	7.9	91.3	91.3	6.9	6.9	6.9	5.2	5.1	8.2	8.8	8.7	11.8	<0.001	
						0.3	347.0	20.1		30.4	30.4	7.9		91.3	91.3	6.9	6.9		5.0	5.1		8.5				
						0.2	330.0	20.1		30.4	30.4	7.9		90.4	90.4	6.9	6.9		6.4	6.3		11.1				
					M	0.3	354.0	20.1	30.4	30.4	7.9	90.3	90.4	6.9	6.9	6.3	6.3	11.7	11.4	<0.001						
						0.2	324.0	20.2	31.0	30.9	7.9	88.4	88.5	6.7	6.7	13.5	13.3	15.6	15.5	<0.001						
						0.2	350.0	20.2	30.9	30.9	7.9	88.5	88.5	6.7	6.7	13.1	13.3	15.3	15.5	<0.001						
IM1	Fine	Calm	10:28	9.2	S	0.1	278.6	20.3	20.3	32.4	32.4	8.0	8.0	97.6	97.7	7.3	7.3	7.3	3.1	3.1	4.1	6.4	6.3	7.6	<0.001	
						1.2	59.5	20.3		32.4	32.4	8.0		97.7	97.7	7.3	7.3		3.1	3.1		6.1				
						0.2	266.3	20.3		32.4	32.4	8.0		97.1	97.2	7.3	7.3		4.0	3.8		7.7				7.5
					M	0.2	266.3	20.3	32.4	32.4	8.0	97.2	97.2	7.3	7.3	3.5	3.8	7.3	7.5	<0.001						
						1.2	27.3	20.2	32.4	32.4	8.0	97.3	97.0	7.3	7.3	5.1	5.3	9.4	9.2	<0.001						
						0.0	35.5	20.2	32.4	32.4	8.0	96.7	97.0	7.2	7.3	5.5	5.3	8.9	9.2	<0.001						
IM2	Fine	Calm	10:08	11.1	S	0.4	240.7	20.3	20.3	32.0	32.0	7.8	7.8	84.5	84.0	6.3	6.3	6.4	2.6	2.5	3.6	6.1	5.9	8.8	<0.001	
						0.4	240.7	20.3		32.0	32.0	7.8		83.4	86.7	6.5	6.5		2.3	2.8		5.7				
						0.3	315.5	20.3		32.1	32.1	7.9		87.3	86.0	6.4	6.5		2.8	2.8		9.0				
					M	0.2	279.9	20.3	32.0	32.0	7.9	86.0	90.3	6.8	6.8	2.7	2.8	8.8	8.9	<0.001						
						0.5	68.3	20.2	32.2	32.2	7.9	90.2	90.3	6.8	6.8	5.3	5.5	11.1	11.5	<0.001						
						0.9	85.0	20.2	32.2	32.2	7.9	90.3	90.3	6.8	6.8	5.6	5.5	11.9	11.5	<0.001						
IM3	Fine	Calm	13:53	15.0	S	0.5	284.4	20.5	20.5	32.2	32.2	8.0	8.0	93.5	93.5	7.0	7.0	7.0	4.7	4.7	9.0	8.5	8.3	14.3	<0.001	
						0.6	353.1	20.5		32.2	32.2	8.0		93.4	93.5	7.0	7.0		4.6	4.7		8.0				
						0.1	241.0	20.2		32.3	32.3	8.1		95.0	94.6	7.1	7.1		5.7	5.3		11.2				11.4
					M	0.5	191.6	20.2	32.3	32.3	8.1	94.1	94.6	7.1	7.1	4.8	5.3	11.5	11.4	<0.001						
						1.2	61.0	19.9	32.4	32.4	8.2	95.8	95.9	7.2	7.2	16.4	17.1	23.0	23.3	<0.001						
						1.2	61.0	19.9	32.4	32.4	8.2	95.9	95.9	7.2	7.2	17.7	17.1	23.5	23.3	<0.001						
IM4	Fine	Calm	13:33	16.2	S	0.5	234.6	20.3	20.3	32.3	32.3	8.1	8.1	94.9	95.1	7.1	7.1	7.1	4.4	4.3	9.5	9.8	9.7	14.1	<0.001	
						0.5	234.6	20.4		32.4	32.3	8.1		95.3	95.1	7.1	7.1		4.2	4.3		9.5				
						0.8	293.4	20.1		32.3	32.3	8.1		93.4	93.5	7.0	7.0		8.4	7.8		11.5				11.3
					M	0.2	123.5	20.1	32.3	32.3	8.1	93.6	93.5	7.0	7.0	7.1	7.8	11.0	11.3	<0.001						
						0.2	36.1	20.2	32.4	32.4	8.1	92.8	92.7	7.0	6.9	16.7	16.4	21.1	21.3	<0.001						
						0.4	326.0	20.2	32.4	32.4	8.1	92.6	92.7	6.9	6.9	16.1	16.4	21.4	21.3	<0.001						
IM5	Fine	Calm	12:13	15.0	S	0.4	125.5	20.2	20.2	32.4	32.4	8.1	8.1	95.1	95.1	7.1	7.1	7.1	4.9	4.9	5.5	7.1	7.4	9.4	<0.001	
						1.2	248.8	20.2		32.4	32.4	8.1		95.1	95.1	7.1	7.1		4.9	4.9		7.6				
						1.1	312.6	20.1		32.4	32.4	8.1		94.9	94.9	7.1	7.1		4.5	4.5		9.5				9.3
					M	0.6	164.9	20.1	32.4	32.4	8.1	94.8	94.9	7.1	7.1	4.4	4.5	9.1	9.3	<0.001						
						0.7	253.3	20.0	32.4	32.4	8.1	95.2	95.1	7.2	7.1	6.8	7.0	11.7	11.5	<0.001						
						0.6	89.4	20.0	32.4	32.4	8.1	94.9	95.1	7.1	7.1	7.2	7.0	11.3	11.5	<0.001						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/02

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)
						Value	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	
IM6	Fine	Calm	12:00	15.3	S	1.1	292.8	20.0	20.0	32.5	32.5	8.1	8.1	96.8	96.9	7.3	7.3	5.3	7.3	11.0	12.8	<0.001	
						0.7	321.4	20.0		32.5	32.5	8.1		96.9	7.3	5.0		11.1		<0.001			
						0.6	306.9	19.9		32.5	32.5	8.1		96.3	7.2	6.6		12.8		<0.001			
					M	0.2	333.3	19.9	32.5	32.5	8.1	96.2	7.2	6.4	12.4	<0.001							
						0.4	258.8	19.9	32.5	32.5	8.1	96.2	7.2	7.5	15.0	<0.001							
						0.7	41.5	19.9	32.5	32.5	8.1	95.9	7.2	8.0	14.6	<0.001							
IM7	Cloudy	Rough	13:03	14.6	S	0.3	233.0	19.7	19.7	33.7	33.7	8.1	8.1	99.2	99.2	7.4	7.4	3.2	3.2	8.8	7.7	<0.001	
						0.3	237.0	19.7		33.7	33.7	8.1		99.2	7.4	3.2		8.2		<0.001			
						0.3	296.0	19.5		33.7	33.7	8.2		99.9	7.5	2.6		7.9		<0.001			
					M	0.3	314.0	19.5	33.7	33.7	8.2	100.0	7.5	2.6	7.6	<0.001							
						0.2	274.0	19.4	33.7	33.7	8.2	100.5	7.6	3.1	7.2	<0.001							
						0.2	290.0	19.4	33.7	33.7	8.2	100.6	7.6	3.0	6.7	<0.001							
IM8	Cloudy	Rough	12:49	12.7	S	0.2	268.0	19.5	19.5	33.7	33.7	8.1	8.1	99.2	99.2	7.5	7.4	2.9	2.9	6.1	7.7	<0.001	
						0.2	276.0	19.5		33.7	33.7	8.1		99.2	7.5	2.9		6.3		<0.001			
						0.2	278.0	19.5		33.7	33.7	8.1		98.6	7.4	3.6		7.4		<0.001			
					M	0.2	280.0	19.5	33.7	33.7	8.1	98.6	7.4	3.6	7.2	<0.001							
						0.2	292.0	19.5	33.7	33.7	8.1	98.3	7.4	5.8	9.5	<0.001							
						0.3	304.0	19.5	33.7	33.7	8.1	98.3	7.4	5.9	9.7	<0.001							
IM9	Cloudy	Rough	12:25	14.7	S	0.3	258.0	19.8	19.8	33.6	33.6	8.1	8.1	98.9	96.9	7.3	7.3	7.7	7.7	14.4	15.8	<0.001	
						0.3	269.0	19.8		33.6	33.6	8.1		96.9	7.3	7.7		13.9		<0.001			
						0.4	274.0	19.7		33.7	33.7	8.1		96.9	7.3	11.5		16.4		<0.001			
					M	0.4	277.0	19.7	33.7	33.7	8.1	96.9	7.3	11.6	15.9	<0.001							
						0.3	283.0	19.6	33.7	33.7	8.1	97.1	7.3	12.2	17.0	<0.001							
						0.3	289.0	19.6	33.7	33.7	8.1	97.1	7.3	12.6	17.3	<0.001							
IM10	Cloudy	Moderate	11:40	11.4	S	0.8	237.0	20.0	20.0	33.5	33.5	8.1	8.1	96.7	96.7	7.2	7.2	5.2	5.6	10.3	15.1	<0.001	
						0.8	252.0	20.0		33.5	33.5	8.1		96.6	7.2	5.9		10.0		<0.001			
						0.6	232.0	19.9		33.6	33.6	8.1		96.0	7.2	11.4		14.8		<0.001			
					M	0.6	233.0	19.9	33.7	33.6	8.1	96.1	7.2	11.5	14.5	<0.001							
						0.7	235.0	19.9	33.7	33.7	8.0	97.1	7.3	8.9	20.3	<0.001							
						0.7	239.0	19.9	33.7	33.7	8.0	97.3	7.3	8.5	20.9	<0.001							
IM11A	Cloudy	Moderate	11:22	5.3	S	0.7	338.0	19.9	19.9	33.6	33.6	8.1	8.1	96.4	96.4	7.2	7.2	11.2	11.1	30.9	44.1	<0.001	
						0.8	350.0	19.9		33.6	33.6	8.1		96.4	7.2	11.1		31.2		<0.001			
						0.5	343.0	19.9		33.6	33.6	8.1		97.4	7.3	14.0		57.5		<0.001			
					B	0.5	9.0	19.9	33.6	33.6	8.1	97.6	7.3	14.1	56.7	<0.001							
						0.7	332.0	19.9	33.4	33.4	8.1	96.5	7.2	6.0	13.8	<0.001							
						0.8	334.0	19.9	33.4	33.4	8.1	96.5	7.2	6.0	14.3	<0.001							
IM12	Cloudy	Moderate	11:09	14.6	M	0.7	329.0	19.9	19.9	33.5	33.5	8.1	8.1	95.8	95.8	7.2	7.2	8.5	8.5	19.4	19.9	<0.001	
						0.7	337.0	19.9		33.5	33.5	8.1		95.8	7.2	8.5		18.9		<0.001			
						0.6	337.0	19.9		33.5	33.5	8.1		96.4	7.2	15.1		26.7		<0.001			
					B	0.6	347.0	19.9	33.6	33.5	8.1	96.5	7.2	15.1	26.3	<0.001							
						0.0	63.0	19.7	32.5	32.5	8.1	96.7	7.3	4.7	8.0	<0.001							
						0.0	63.0	19.7	32.5	32.5	8.1	96.7	7.3	4.7	8.3	<0.001							
IM13	Cloudy	Moderate	10:45	16.0	M	0.2	351.0	19.8	19.8	32.8	32.8	8.1	8.1	96.1	96.1	7.2	7.3	5.1	5.0	9.6	9.4	<0.001	
						0.2	13.0	19.8		32.8	32.8	8.1		96.1	7.2	5.0		9.6		<0.001			
						0.2	350.0	19.8		32.9	32.9	8.1		96.8	7.3	6.4		10.5		<0.001			
					B	0.3	15.0	19.8	32.9	32.9	8.1	97.0	7.3	6.3	10.1	<0.001							
						0.4	27.0	19.9	32.9	32.9	8.1	96.2	7.2	4.4	10.3	<0.001							
						0.5	28.0	19.9	32.9	32.9	8.1	96.1	7.2	4.5	9.9	<0.001							
IM14	Cloudy	Moderate	10:35	10.5	S	0.4	28.0	19.9	19.9	33.0	33.0	8.1	8.1	95.9	95.9	7.2	7.2	7.6	7.6	10.5	12.4	<0.001	
						0.5	30.0	19.9		33.0	33.0	8.1		95.9	7.2	7.6		10.0		<0.001			
						0.3	28.0	19.9		33.0	33.0	8.1		96.4	7.2	13.6		17.1		<0.001			
					M	0.4	28.0	19.9	33.0	33.0	8.1	95.9	7.2	7.6	10.3	<0.001							
						0.5	30.0	19.9	33.0	33.0	8.1	95.9	7.2	7.6	10.0	<0.001							
						0.3	28.0	19.9	33.0	33.0	8.1	96.4	7.2	13.6	16.6	<0.001							
B	0.4	28.0	19.9	33.0	33.0	8.1	96.4	7.2	13.3	16.9	<0.001												

Water Quality Monitoring Data Log Sheet

Date: 2020/01/02

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM15	Cloudy	Moderate	10:25	5.8	S	0.3	287.0	20.1	20.1	30.1	30.1	7.9	7.9	91.4	91.5	6.9	6.9	6.9	6.6	6.7	7.2	12.3	12.5	13.6
						0.4	295.0	20.1	20.1	30.1	30.2	7.9	7.9	91.5	91.5	7.0	7.1	7.1	6.8	6.7	7.2	12.7	12.5	
					B	0.3	284.0	20.1	20.1	30.2	30.2	7.9	7.9	92.9	93.3	7.1	7.1	7.1	7.8	7.7	7.2	14.8	14.6	
						0.3	299.0	20.1	20.1	30.2	30.2	7.9	7.9	93.7	93.3	7.1	7.1	7.1	7.6	7.7	7.2	14.4	14.6	
IM16A	Cloudy	Moderate	10:50	6.4	S	0.2	293.0	19.9	19.9	29.5	29.5	7.9	7.9	92.6	92.6	7.1	7.1	7.1	5.7	5.8	7.1	13.4	13.2	12.2
						0.2	297.0	19.9	19.9	29.6	29.6	7.9	7.9	92.6	92.6	7.1	7.1	7.1	5.8	5.8				
					M	0.2	307.0	19.9	19.9	29.6	29.6	7.9	7.9	92.7	92.8	7.1	7.1	7.1	6.0	6.0	6.1	12.3	12.2	
						0.2	332.0	19.9	19.9	29.6	29.6	7.9	7.9	92.8	92.8	7.1	7.1	7.1	6.0	6.0				
					B	0.2	305.0	19.9	19.9	29.6	29.6	7.9	7.9	94.1	94.3	7.2	7.2	7.2	6.5	6.5	7.1	11.4	11.3	
						0.2	328.0	19.9	19.9	29.6	29.6	7.9	7.9	94.4	94.3	7.2	7.2	7.2	6.5	6.5				
IM17	Cloudy	Moderate	11:10	4.5	S	0.3	320.0	19.9	19.9	28.8	28.8	7.9	7.9	93.0	93.0	7.1	7.1	7.1	6.5	6.7	8.5	9.6	9.7	11.2
						0.4	336.0	19.9	19.9	28.9	28.9	7.9	7.9	93.0	93.0	7.1	7.1	7.1	7.0	6.7				
					B	0.3	313.0	20.0	20.0	29.5	29.5	7.9	7.9	95.3	95.5	7.3	7.3	7.3	10.1	10.2	6.9	12.9	12.7	
						0.3	328.0	20.0	20.0	29.5	29.5	7.9	7.9	95.7	95.5	7.3	7.3	7.3	10.4	10.2				
IM18	Cloudy	Moderate	12:57	16.2	S	0.1	255.0	20.2	20.2	27.9	27.9	7.8	7.8	91.9	91.9	7.1	7.1	6.9	2.6	2.6	7.8	6.0	5.8	8.4
						0.1	277.0	20.2	20.2	27.9	27.9	7.8	7.8	91.9	91.9	7.1	7.1	6.9	2.6	2.6				
					M	0.4	336.0	20.2	20.2	30.3	30.3	7.9	7.9	88.4	88.4	6.7	6.7	6.7	4.1	4.1	6.9	9.7	9.7	
						0.4	3.0	20.2	20.2	30.3	30.3	7.9	7.9	88.3	88.4	6.7	6.7	6.7	4.1	4.1				
					B	0.5	335.0	20.3	20.3	30.6	30.6	7.9	7.9	87.7	87.8	6.6	6.6	6.6	16.8	16.7	6.9	9.8	9.7	
						0.5	3.0	20.3	20.3	30.6	30.6	7.9	7.9	87.8	87.8	6.6	6.6	6.6	16.5	16.7				
IM19	Cloudy	Moderate	12:44	17.7	S	0.2	20.0	20.1	20.1	28.2	28.2	7.8	7.8	91.5	91.5	7.0	7.0	6.9	3.0	3.0	5.4	6.0	6.2	7.6
						0.2	21.0	20.1	20.1	28.2	28.2	7.8	7.8	91.4	91.5	7.0	7.0	6.9	3.0	3.0				
					M	0.5	345.0	20.4	20.4	30.3	30.3	7.9	7.9	89.6	89.6	6.8	6.8	6.8	3.0	3.0	6.9	6.6	6.9	
						0.5	3.0	20.4	20.4	30.3	30.3	7.9	7.9	89.6	89.6	6.8	6.8	6.8	3.0	3.0				
					B	0.6	334.0	20.4	20.4	30.8	30.8	7.9	7.9	89.8	89.9	6.8	6.8	6.8	10.1	10.2	6.9	10.1	9.8	
						0.6	349.0	20.4	20.4	30.8	30.8	7.9	7.9	89.9	89.9	6.8	6.8	6.8	10.4	10.2				
IM20A	Cloudy	Moderate	12:14	4.4	S	0.4	59.0	20.2	20.2	28.0	28.0	7.8	7.8	91.3	91.3	7.0	7.0	7.0	3.8	3.8	6.0	9.7	9.5	10.5
						0.5	62.0	20.2	20.2	28.0	28.0	7.8	7.8	91.2	91.3	7.0	7.0	7.0	3.8	3.8				
					B	0.3	50.0	21.2	21.2	29.3	29.3	7.8	7.8	93.1	93.2	7.0	7.0	7.0	8.3	8.2	6.0	11.5	11.4	
						0.3	52.0	21.2	21.2	29.3	29.3	7.8	7.8	93.2	93.2	7.0	7.0	7.0	8.2	8.2				
IM21A	Cloudy	Calm	12:24	4.8	S	0.0	358.0	21.2	21.2	27.9	28.0	7.8	7.8	94.4	94.4	7.1	7.1	7.1	4.4	4.6	7.0	11.0	11.2	13.6
						0.0	2.0	21.2	21.2	28.0	28.0	7.8	7.8	94.3	94.3	7.1	7.1	7.1	4.8	4.6				
					B	0.1	232.0	20.7	20.8	28.7	28.7	7.8	7.8	94.6	94.8	7.2	7.2	7.2	9.5	9.3	6.0	16.4	16.1	
0.1	246.0	20.8	20.8	28.7		28.7	7.8	7.8	95.0	94.8	7.2	7.2	7.2	9.1	9.3									
IM22A	Cloudy	Calm	12:29	4.4	S	0.2	62.0	20.2	20.2	27.4	27.4	7.8	7.8	92.5	92.6	7.1	7.1	7.1	3.4	3.4	3.6	9.0	8.9	9.4
						0.2	62.0	20.2	20.2	27.4	27.4	7.8	7.8	92.6	92.6	7.1	7.1	7.1	3.4	3.4				
					B	0.2	53.0	20.1	20.1	27.5	27.5	7.9	7.9	93.8	94.1	7.2	7.3	7.3	3.9	3.9	3.6	9.8	10.0	
						0.2	53.0	20.1	20.1	27.5	27.5	7.9	7.9	94.4	94.1	7.3	7.3	7.3	3.8	3.9				

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/04

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)											
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		Value	Average	DA*								
F3	Cloudy	Moderate	05:39	18.1	S	0.3	51.9	19.8	19.8	32.4	32.4	8.2	8.2	102.3	102.4	7.7	7.7	7.7	7.7	1.6	1.5	2.5	2.3	3.0	2.5	3.5	3.9	<0.001							
						0.5	316.1	19.8		32.4		8.2		102.4		7.7		1.4		2.1															
						0.4	230.4	19.8		32.4		8.2		101.6		7.7		1.8		3.4															
					M	0.4	230.4	19.8	32.4	8.2	101.7	7.7	1.7	3.6																					
						0.4	336.6	19.8	32.4	8.2	101.1	7.6	5.5	5.6																					
						0.4	336.6	19.8	32.4	8.2	101.0	7.6	6.0	6.0																					
F4	Cloudy	Moderate	04:41	13.5	S	0.9	38.3	20.3	20.3	32.5	32.5	8.1	8.1	98.1	98.1	7.3	7.3	7.3	7.3	3.7	3.8	4.4	4.5	5.3	4.4	5.8	6.2	<0.001							
						0.4	67.5	20.3		32.5		8.1		98.1		7.3		3.8		4.5															
						0.4	187.6	20.3		32.5		8.1		97.8		7.3		3.7		5.7															
					M	0.5	115.5	20.3	32.5	8.1	97.8	7.3	3.9	5.8																					
						0.4	344.0	20.3	32.5	8.1	97.4	7.3	8.7	8.2																					
						1.2	5.5	20.3	32.5	8.1	97.4	7.3	8.2	8.5																					
					F5	Fine	Moderate	08:20	5.7	S	0.3	200.0	19.5	19.5	30.5	30.5	8.1	8.1	95.4	95.3	7.3	7.3	7.3		7.3	2.6		2.6	3.0	3.1	3.7	3.0	3.6	3.3	<0.001
											0.3	217.0	19.5		30.5		8.1		95.1		7.3		2.6			3.1									
											0.1	196.0	19.8		31.4		8.1		93.2		7.1		4.8			3.8									
B	0.1	211.0	19.8	31.4						8.1	93.5	7.1	4.9	3.4																					
	0.3	140.0	20.2	29.6						7.9	93.4	7.1	2.3	3.3																					
	0.3	149.0	20.2	29.5						7.9	93.4	7.1	2.4	3.4																					
F6	Cloudy	Moderate	04:48	12.4	S	0.2	115.0	20.1	20.1	30.0	30.0	7.9	7.9	93.1	93.1	7.1	7.1	7.1	7.1	2.4	2.3	3.8	3.9	3.1	3.8	4.4	3.9	<0.001							
						0.2	119.0	20.1		30.0		7.9		93.1		7.1		2.3		3.9															
						0.2	110.0	20.0		30.7		8.0		91.2		6.9		4.5		4.3															
					M	0.2	115.0	20.0	30.7	8.0	91.2	6.9	4.6	4.4																					
						0.2	110.0	20.0	30.7	8.0	91.2	6.9	4.5	4.3																					
						0.2	115.0	20.0	30.7	8.0	91.2	6.9	4.6	4.4																					
IM1	Cloudy	Moderate	07:06	10.3	S	1.3	8.3	20.5	20.6	32.4	32.4	8.1	8.1	97.0	97.1	7.2	7.2	7.2	7.2	2.5	2.5	2.8	3.1	3.1	2.4	3.6	3.7	<0.001							
						1.3	8.3	20.6		32.4		8.1		97.1		7.2		2.4		3.4															
						0.3	65.2	20.3		32.4		8.2		97.0		7.3		2.6		3.6															
					M	0.3	65.2	20.3	32.4	8.2	97.0	7.2	2.7	3.5																					
						0.8	104.8	20.1	32.4	8.2	97.0	7.2	3.8	4.6																					
						0.2	178.0	20.1	32.5	8.2	96.1	7.2	4.3	4.4																					
					IM2	Cloudy	Moderate	07:29	11.5	S	0.4	125.1	20.5	20.5	32.1	32.1	8.0	8.0	89.2	89.2	6.7	6.7	6.7		6.7	3.4		3.5	4.3	4.3	3.9	4.2	4.5	4.8	<0.001
											0.8	236.5	20.5		32.1		8.0		89.2		6.7		3.5			4.2									
											0.2	351.1	20.5		32.1		8.0		89.5		6.7		3.7			4.3									
M	0.7	233.8	20.5	32.1						8.0	89.0	6.6	3.6	4.7																					
	0.5	86.7	20.3	32.4						8.1	92.1	6.9	4.2	5.8																					
	0.6	87.2	20.3	32.4						8.1	92.6	6.9	4.8	5.5																					
IM3	Cloudy	Moderate	03:22	15.5						S	0.7	125.7	20.4	20.4	32.3	32.3	7.9	7.9	95.9	96.2	7.2	7.2	7.2	7.2	2.9	2.8	2.1	2.2	7.3	7.4		7.8	10.1		<0.001
											0.7	125.7	20.4		32.3		7.9		96.5		7.2		2.7		2.2										
											0.1	257.6	20.3		32.3		7.9		94.2		7.0		6.3		8.1										
					M	0.3	274.3	20.3	32.3	7.9	93.8	7.0	6.5	7.4																					
						0.8	266.4	20.2	32.4	7.9	95.3	7.1	13.4	20.8																					
						0.9	72.8	20.2	32.4	7.9	95.2	7.1	12.0	19.9																					
					IM4	Cloudy	Moderate	03:47	17.3	S	0.4	133.0	20.2	20.2	32.4	32.4	8.0	8.0	95.2	95.3	7.1	7.1	7.1	7.1	4.6	4.8	5.7	6.0		6.7	5.0	7.1		9.6	<0.001
											0.4	133.0	20.2		32.4		8.0		95.3		7.1		5.0		6.2										
											0.5	111.7	20.2		32.4		8.0		94.6		7.1		5.2		6.8										
M	0.5	198.6	20.2	32.4						8.0	94.7	7.1	4.7	7.4																					
	0.3	146.4	20.2	32.4						8.0	93.8	7.0	10.2	16.1																					
	0.2	215.9	20.2	32.4						8.0	93.7	7.0	10.6	15.3																					
IM5	Cloudy	Moderate	05:11	15.5						S	0.1	24.8	19.9	19.9	32.4	32.4	8.2	8.2	99.7	99.7	7.5	7.5	7.5	7.5	3.8	3.8	5.2	5.5	4.0		5.0	5.2	5.0		<0.001
											0.1	154.8	19.9		32.4		8.2		99.7		7.5		3.8		5.7										
											0.3	72.3	19.9		32.4		8.2		99.5		7.5		3.8		5.0										
					M	0.7	159.3	19.9	32.4	8.2	99.4	7.5	4.0	5.3																					
						0.7	157.8	19.9	32.4	8.2	99.1	7.5	4.5	4.4																					
						0.5	125.2	19.9	32.4	8.2	99.0	7.5	4.0	4.6																					
					B	0.1	24.8	19.9	32.4	8.2	99.7	7.5	3.8	5.2																					

Water Quality Monitoring Data Log Sheet

Date: 2020/01/04

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity (NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)								
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*							
IM6	Cloudy	Moderate	05:26	16.5	S	2.6	106.6	19.9	19.9	32.4	32.4	8.2	8.2	102.0	102.1	7.7	7.7	7.7	3.2	3.3	5.3	4.1	4.5	6.9	<0.001							
						2.6	106.6	19.9	19.9	32.4	32.4	8.2	8.2	102.1	102.1	7.7	7.7		3.3	3.3		4.8	4.5									
					M	0.2	77.3	19.9	19.9	32.4	32.4	8.2	8.2	101.4	101.4	7.6	7.6	3.4	3.6	4.3	4.4											
						0.5	166.0	19.9	19.9	32.4	32.4	8.2	8.2	101.4	101.4	7.6	7.6	3.8	3.6	4.5	4.4											
					B	0.3	196.9	19.9	19.9	32.4	32.4	8.2	8.2	100.7	100.7	7.6	7.6	8.9	9.1	12.1	11.9											
						0.3	196.9	19.9	19.9	32.4	32.4	8.2	8.2	100.6	100.6	7.6	7.6	9.2	9.1	11.6	11.9											
IM7	Fine	Rough	04:52	14.7	S	0.2	155.0	19.5	19.5	33.6	33.6	8.1	8.1	102.9	102.9	7.8	7.8	7.8	1.3	1.3	1.4	1.4	1.3	1.0	<0.001							
						0.2	160.0	19.5	19.5	33.6	33.6	8.1	8.1	102.9	102.9	7.8	7.8		1.3	1.3		1.2	1.3									
					M	0.2	134.0	19.5	19.5	33.6	33.6	8.1	8.1	103.4	103.4	7.8	7.8	1.3	1.4	1.1		1.2										
						0.2	137.0	19.5	19.5	33.6	33.6	8.1	8.1	103.4	103.4	7.8	7.8	1.4	1.4	1.2		1.2										
					B	0.1	149.0	19.5	19.5	33.7	33.7	8.1	8.1	102.9	102.9	7.8	7.8	1.6	1.6	0.5		0.5										
						0.1	153.0	19.5	19.5	33.7	33.7	8.1	8.1	102.9	102.9	7.8	7.8	1.6	1.6	0.5		0.5										
IM8	Fine	Rough	05:03	12.6	S	0.1	127.0	19.5	19.5	33.6	33.6	8.2	8.2	103.5	103.5	7.8	7.8	7.8	1.4	1.4	1.7	3.3	3.2	2.6	<0.001							
						0.1	135.0	19.5	19.5	33.6	33.6	8.2	8.2	103.5	103.5	7.8	7.8		1.4	1.4		3.1	3.2									
					M	0.2	148.0	19.5	19.5	33.6	33.6	8.2	8.2	103.5	103.5	7.8	7.8	1.6	1.6	2.5		2.6										
						0.2	153.0	19.5	19.5	33.6	33.6	8.2	8.2	103.5	103.5	7.8	7.8	1.7	1.6	2.7		2.6										
					B	0.0	101.0	19.5	19.5	33.6	33.6	8.2	8.2	103.1	103.1	7.8	7.8	2.2	2.2	2.1		2.1										
						0.0	107.0	19.5	19.5	33.6	33.6	8.2	8.2	103.1	103.1	7.8	7.8	2.2	2.2	2.0		2.1										
IM9	Fine	Rough	05:25	14.9	S	0.3	120.0	19.7	19.7	33.2	33.2	8.1	8.1	99.9	99.9	7.5	7.5	7.5	1.6	1.6	2.5	7.2	6.8	4.9	<0.001							
						0.3	126.0	19.7	19.7	33.2	33.2	8.1	8.1	99.9	99.9	7.5	7.5		1.6	1.6		6.4	6.8									
					M	0.2	91.0	19.8	19.8	33.6	33.6	8.1	8.1	99.5	99.5	7.5	7.5	2.7	2.7	4.4		4.5										
						0.2	100.0	19.8	19.8	33.6	33.6	8.1	8.1	99.5	99.5	7.5	7.5	2.8	2.7	4.6		4.5										
					B	0.2	94.0	19.8	19.8	33.6	33.6	8.1	8.1	99.5	99.5	7.5	7.5	3.2	3.3	3.0		3.3										
						0.3	101.0	19.8	19.8	33.6	33.6	8.1	8.1	99.5	99.5	7.5	7.5	3.4	3.3	3.6		3.3										
IM10	Fine	Moderate	06:12	8.4	S	0.4	72.0	20.0	20.0	33.2	33.2	8.1	8.1	97.5	97.5	7.3	7.3	7.3	3.7	3.7	3.8	4.0	4.2	5.0	<0.001							
						0.4	73.0	20.0	20.0	33.2	33.2	8.1	8.1	97.5	97.5	7.3	7.3		3.7	3.7		4.3	4.2									
					M	0.4	57.0	20.0	20.0	33.4	33.4	8.1	8.1	98.3	98.3	7.3	7.3	3.6	3.6	4.4		4.4										
						0.5	62.0	20.0	20.0	33.4	33.4	8.1	8.1	98.3	98.3	7.3	7.3	3.6	3.6	4.3		4.4										
					B	0.3	47.0	19.9	19.9	33.5	33.5	8.1	8.1	99.8	99.8	7.5	7.5	4.2	4.2	6.0		6.4										
						0.4	50.0	19.9	19.9	33.5	33.5	8.1	8.1	99.8	99.8	7.5	7.5	4.2	4.2	6.7		6.4										
IM11A	Fine	Moderate	06:27	5.7	S	0.3	152.0	19.9	19.9	33.1	33.1	8.1	8.1	96.1	96.1	7.2	7.2	7.2	5.4	5.4	5.6	6.8	6.7	8.3	<0.001							
						0.3	163.0	19.9	19.9	33.1	33.1	8.1	8.1	96.1	96.1	7.2	7.2		5.4	5.4		6.6	6.7									
					B	0.2	110.0	19.9	19.9	33.1	33.1	8.1	8.1	98.2	98.2	7.4	7.4	5.8	5.8	10.2		9.9										
						0.2	116.0	19.9	19.9	33.1	33.1	8.1	8.1	98.4	98.3	7.4	7.4	5.8	5.8	9.5		9.9										
					IM12	Fine	Moderate	06:37	14.8	S	0.5	151.0	19.5	19.5	31.4	31.4	8.1	8.1	97.2	97.2		7.4	7.4		7.3	2.2	2.2	4.1	3.4	3.6	4.5	<0.001
											0.6	161.0	19.5	19.5	31.4	31.4	8.1	8.1	97.1	97.2		7.4	7.4			2.2	2.2		3.7	3.6		
M	0.4	139.0	19.9	19.9						33.3	33.3	8.1	8.1	95.1	95.1	7.1	7.1	4.0	4.0	3.6	3.8											
	0.4	145.0	19.9	19.9						33.3	33.3	8.1	8.1	95.1	95.1	7.1	7.1	4.0	4.0	4.0	3.8											
B	0.2	129.0	19.8	19.8	33.5	33.5	8.1	8.1	95.9	96.0	7.2	7.2	6.1	6.1	6.0	6.3																
	0.3	135.0	19.8	19.8	33.5	33.5	8.1	8.1	96.0	96.0	7.2	7.2	6.2	6.1	6.5	6.3																
IM13	Fine	Moderate	07:03	16.4	S	0.4	192.0	19.6	19.6	30.4	30.4	8.1	8.1	95.7	95.7	7.3	7.3	7.3	2.5	2.5	3.2	3.0	3.3	4.0	<0.001							
						0.4	202.0	19.6	19.6	30.4	30.4	8.1	8.1	95.7	95.7	7.3	7.3		2.5	2.5		3.5	3.3									
					M	0.3	196.0	19.8	19.8	32.6	32.6	8.1	8.1	95.5	95.5	7.2	7.2	2.7	2.7	3.5		3.7										
						0.3	206.0	19.8	19.8	32.6	32.6	8.1	8.1	95.5	95.5	7.2	7.2	2.7	2.7	3.9		3.7										
					B	0.2	204.0	19.9	19.9	33.2	33.2	8.1	8.1	94.1	94.1	7.1	7.1	4.4	4.4	5.0		5.0										
						0.2	207.0	19.9	19.9	33.2	33.2	8.1	8.1	94.1	94.1	7.1	7.1	4.4	4.4	4.9		5.0										
IM14	Fine	Moderate	07:12	10.7	S	0.4	188.0	19.7	19.7	31.5	31.6	8.1	8.1	95.7	95.7	7.3	7.3	7.2	2.4	2.4	3.3	3.1	3.4	3.7	<0.001							
						0.4	191.0	19.7	19.7	31.6	31.6	8.1	8.1	95.7	95.7	7.3	7.3		2.4	2.4		3.7	3.4									
					M	0.3	206.0	19.8	19.8	32.3	32.3	8.1	8.1	94.6	94.6	7.1	7.1	3.1	3.1	3.7		3.7										
						0.3	223.0	19.8	19.8	32.3	32.3	8.1	8.1	94.5	94.6	7.1	7.1	3.2	3.1	3.6		3.7										
					B	0.2	171.0	19.9	19.9	33.0	33.0	8.1	8.1	94.5	94.5	7.1	7.1	4.3	4.2	4.0		3.9										
						0.2	172.0	19.9	19.9	33.0	33.0	8.1	8.1	94.5	94.5	7.1	7.1	4.2	4.2	3.8		3.9										

Water Quality Monitoring Data Log Sheet

Date: 2020/01/04

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		Value
IM15	Cloudy	Moderate	07:56	6.2	S	0.4	190.0	20.0	20.0	27.9	27.8	8.0	8.0	94.4	94.3	7.3	7.3	7.2	3.2	5.3	2.7	2.8	2.8	5.8	
						0.4	197.0	19.9		27.8		8.0		94.2		7.3		3.2	3.1						
						0.3	199.0	19.9		30.5		8.1		93.1		7.1		3.9	3.8						
					M	0.3	205.0	19.9	30.5	8.1	92.8	7.1	7.1	3.6	3.8	4.0									
						0.2	205.0	19.8	30.8	8.1	92.0	7.0	7.0	8.9	11.0	10.7									
						0.2	211.0	19.8	30.8	8.1	92.0	7.0	7.0	8.9	10.4	10.7									
IM16A	Cloudy	Moderate	07:31	6.1	S	0.3	166.0	20.1	20.1	27.8	27.8	8.0	8.0	92.4	92.4	7.1	7.1	7.1	4.0	4.6	2.8	2.8	2.8	3.8	
						0.3	171.0	20.1		27.8		8.0		92.4		7.1		4.3	2.7						
						0.2	163.0	20.0		30.1		8.1		92.3		7.0		4.9	3.9						
					M	0.2	163.0	20.0	30.2	8.1	92.2	7.0	7.0	4.8	3.7	3.8									
						0.1	197.0	20.0	30.3	8.1	92.0	7.0	7.0	4.6	4.8	4.8									
						0.1	199.0	20.0	30.3	8.1	92.0	7.0	7.0	4.8	4.8	4.8									
IM17	Cloudy	Moderate	07:13	4.6	S	0.5	171.0	20.3	20.3	26.4	26.4	8.0	8.0	91.0	91.0	7.1	7.0	7.0	2.6	2.9	2.6	3.4	3.1	3.6	
						0.5	174.0	20.2		26.4		8.0		90.9		7.0		2.6	3.6						
						0.5	173.0	20.2		29.1		8.0		91.5		7.0		3.1	4.1						
					B	0.5	175.0	20.0	29.2	7.9	91.5	7.0	7.0	3.1	3.7	3.9									
						0.2	150.0	20.2	28.9	8.0	91.7	7.0	7.0	3.0	3.3	3.4									
						0.2	152.0	20.2	29.0	8.0	91.5	7.0	7.0	3.1	3.4	3.4									
IM18	Cloudy	Moderate	05:16	17.2	M	0.1	156.0	20.1	20.1	30.6	30.5	8.0	8.0	89.3	89.3	6.8	6.8	6.8	3.1	3.3	3.6	3.7	3.7	3.7	
						0.1	168.0	20.1		30.5		8.0		89.3		6.8		3.2	3.8						
						0.1	149.0	20.1		31.0		8.0		88.5		6.7		3.8	4.5						
					B	0.1	149.0	20.1	31.0	8.0	88.6	6.7	6.7	3.7	3.8	4.2									
						0.2	176.0	20.3	29.5	8.0	92.5	7.0	7.0	2.2	2.5	2.6									
						0.3	179.0	20.3	29.5	8.0	92.4	7.0	7.0	2.1	2.6	2.6									
IM19	Cloudy	Moderate	05:32	17.6	M	0.2	146.0	20.2	20.2	30.6	30.6	8.0	8.0	89.4	89.4	6.8	6.8	6.8	2.1	2.3	3.0	3.0	3.0	2.9	
						0.2	153.0	20.2		30.6		8.0		89.3		6.8		2.1	2.9						
						0.2	157.0	20.1		31.0		8.0		88.9		6.7		2.1	3.1						
					B	0.2	168.0	20.1	30.9	8.0	89.2	6.7	6.7	2.7	3.5	3.3									
						0.2	248.0	20.7	29.3	7.9	90.4	6.8	6.8	4.2	7.4	7.1									
						0.2	264.0	20.7	29.4	7.9	90.6	6.8	6.8	4.0	6.8	6.2									
IM20A	Cloudy	Moderate	06:09	4.7	S	0.2	242.0	20.7	20.7	29.6	29.6	7.9	7.9	91.6	91.7	6.9	6.9	6.9	3.3	3.7	6.2	6.0	6.2	6.5	
						0.2	255.0	20.7		29.6		7.9		91.8		6.9		3.4	5.7						
						0.2	189.0	20.5		29.7		8.0		90.8		6.9		2.7	3.8						
					B	0.2	204.0	20.5	29.7	8.0	90.9	6.9	6.9	2.7	3.5	3.7									
						0.2	182.0	20.4	29.9	8.0	93.7	7.1	7.1	2.8	3.3	3.1									
						0.2	195.0	20.4	29.9	8.0	94.1	7.1	7.1	2.8	2.9	2.8									
IM21A	Cloudy	Calm	05:56	4.8	S	0.1	222.0	21.4	21.4	29.8	29.8	8.0	8.0	93.1	93.1	6.9	6.9	6.9	2.8	2.7	2.8	3.7	3.8	3.4	
						0.1	231.0	21.3		29.8		8.0		93.0		6.9		2.8	4.9						
						0.0	54.0	20.6		29.8		8.0		91.4		6.9		3.3	5.1						
					B	0.0	54.0	20.6	29.8	8.0	91.6	6.9	6.9	3.3	3.2	4.1									
						0.0	54.0	20.6	29.8	8.0	91.6	6.9	6.9	3.2	3.2	4.1									
						0.0	54.0	20.6	29.8	8.0	91.6	6.9	6.9	3.2	3.2	4.1									

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/04

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	
E1	Cloudy	Moderate	11:14	8.5	S	0.7	257.2	20.5	20.5	31.8	31.8	7.8	7.8	85.4	85.5	6.4	6.4	6.4	3.7	6.9	5.1	7.2		
						0.5	306.1	20.5	20.5	31.8	31.8	7.8	7.8	85.5	85.5	6.4	6.4		3.7		4.8			
						0.5	152.5	20.4	20.4	31.8	31.8	7.7	7.7	84.6	84.8	6.3	6.3		5.7		6.8			
					M	0.4	265.6	20.4	20.4	31.8	31.8	7.7	7.7	84.9	84.8	6.4	6.3	4.5	5.1	6.5				
						0.5	92.1	20.4	20.4	31.8	31.8	7.8	7.7	86.2	85.4	6.5	6.4	11.7	9.9					
						0.6	266.7	20.4	20.4	31.8	31.8	7.7	7.7	84.6	85.4	6.3	6.4	11.8	10.0					
E2	Cloudy	Moderate	14:35	8.5	S	1.2	40.8	20.7	20.7	32.5	32.5	8.0	8.0	99.7	99.8	7.4	7.4	3.4	4.6	2.9	4.6	<0.001		
						0.5	64.4	20.7	20.5	32.5	32.5	8.0	8.0	99.9	99.8	7.4	7.4	3.3		2.8		<0.001		
						0.1	267.1	20.5	20.5	32.5	32.5	8.0	8.0	97.8	97.9	7.3	7.3	3.7		3.9		<0.001		
					M	0.3	314.1	20.5	20.5	32.5	32.5	8.0	8.0	98.0	97.9	7.3	7.3	3.6	4.0	0.001				
						0.3	171.4	20.3	20.3	32.5	32.5	8.0	8.0	96.1	95.8	7.2	7.2	7.1	7.0	<0.001				
						0.3	178.4	20.3	20.3	32.5	32.5	8.0	8.0	95.4	95.8	7.1	7.2	6.3	7.2	0.002				
E3	Fine	Moderate	12:50	16.4	S	0.2	312.0	20.1	20.1	32.5	32.5	8.1	8.1	98.4	98.4	7.4	7.4	2.5	3.1	2.3	2.4			
						0.2	334.0	20.1	20.1	32.5	32.5	8.1	8.1	98.4	98.4	7.4	7.4	2.5		2.0				
						0.2	297.0	19.8	19.8	33.0	33.0	8.1	8.1	96.5	96.5	7.2	7.2	2.4		2.4				
					M	0.2	310.0	19.8	19.8	33.0	33.0	8.1	8.1	96.5	96.5	7.2	7.2	2.3	2.5					
						0.2	326.0	19.8	19.8	33.3	33.3	8.1	8.1	96.2	96.3	7.2	7.2	4.5	2.6					
						0.2	354.0	19.8	19.8	33.2	33.3	8.1	8.1	96.4	96.3	7.2	7.2	4.2	2.5					
E4	Fine	Moderate	11:29	11.2	S	0.3	188.0	20.4	20.4	28.4	28.4	8.0	8.0	96.9	96.9	7.4	7.4	2.7	3.7	2.6	4.1			
						0.3	189.0	20.4	20.4	28.4	28.4	8.0	8.1	96.9	96.9	7.4	7.4	2.7		3.1				
						0.1	323.0	19.9	19.9	32.6	32.6	8.1	8.1	93.8	93.8	7.1	7.1	3.8		4.3				
					M	0.1	325.0	19.9	19.9	32.6	32.6	8.1	8.1	93.7	93.8	7.1	7.1	3.8	4.4					
						0.2	353.0	19.9	19.9	33.2	33.2	8.1	8.1	93.6	93.7	7.0	7.0	4.6	5.0					
						0.2	5.0	19.9	19.9	33.2	33.2	8.1	8.1	93.7	93.7	7.0	7.0	4.6	5.2					
E5	Cloudy	Moderate	12:04	6.0	S	0.2	286.0	20.2	20.2	27.8	27.8	8.0	8.0	95.3	95.3	7.3	7.3	2.4	4.4	2.0	3.0			
						0.2	295.0	20.2	20.2	27.8	27.8	8.0	8.1	95.2	95.3	7.3	7.3	2.5		2.2				
						0.2	284.0	20.1	20.1	29.4	29.5	8.1	8.1	93.9	93.8	7.2	7.2	3.6		2.5				
					M	0.2	306.0	20.1	20.1	29.6	29.5	8.1	8.1	93.6	93.8	7.1	7.2	4.1	2.4					
						0.2	326.0	19.9	19.9	30.6	30.6	8.1	8.1	92.5	92.6	7.0	7.0	7.0	4.4					
						0.2	331.0	19.9	19.9	30.6	30.6	8.1	8.1	92.6	92.6	7.0	7.0	6.9	4.6					
E6	Cloudy	Moderate	13:12	5.1	S	0.3	337.0	20.5	20.5	23.5	23.5	8.0	8.0	91.7	91.5	7.2	7.2	2.8	4.1	2.7	2.8			
						0.3	356.0	20.5	20.5	23.5	23.5	8.0	8.0	91.3	91.5	7.2	7.2	3.0		2.4				
						0.4	327.0	20.3	20.3	29.0	29.0	8.0	8.0	89.5	89.6	6.8	6.8	5.3		3.1				
					B	0.4	347.0	20.3	20.3	29.0	29.0	8.0	8.0	89.6	89.6	6.8	6.8	5.4	3.2					
						0.4	16.0	20.3	20.3	28.0	28.0	7.9	7.9	92.2	92.1	7.1	7.1	3.0	3.5					
						0.4	16.0	20.3	20.3	28.1	28.0	7.9	7.9	91.9	92.1	7.0	7.1	3.0	3.0					
E7A	Cloudy	Moderate	13:31	4.9	S	0.2	2.0	20.1	20.1	29.3	29.3	7.9	7.9	89.3	89.4	6.8	6.8	8.8	5.9	4.3	3.9			
						0.2	2.0	20.1	20.1	29.3	29.3	7.9	7.9	89.5	89.4	6.8	6.8	8.7		4.5				
						0.1	61.5	20.3	20.3	32.2	32.2	7.9	7.9	95.4	95.5	7.1	7.1	1.9		1.9				
					M	0.1	61.5	20.3	20.3	32.2	32.2	7.9	7.9	95.5	95.5	7.1	7.1	1.9	2.4					
						1.0	309.1	20.2	20.2	32.3	32.3	7.9	7.9	95.5	95.2	7.2	7.1	2.0	2.0					
						0.6	324.3	20.2	20.2	32.3	32.3	8.0	8.0	94.9	95.2	7.1	7.1	2.0	2.6					
F1	Cloudy	Moderate	12:08	20.0	S	0.1	309.0	19.9	19.9	32.4	32.4	8.0	8.0	98.4	98.6	7.4	7.4	4.2	2.7	4.7	3.2			
						0.6	327.2	19.9	19.9	32.4	32.4	8.0	8.0	98.7	98.6	7.4	7.4	4.2		4.5				
						0.1	246.7	20.0	20.0	32.4	32.4	8.1	8.1	103.4	103.5	7.8	7.8	0.9		0.9				
					M	0.1	246.7	20.0	20.0	32.4	32.4	8.1	8.1	103.5	103.5	7.8	7.8	0.9	0.9					
						0.2	95.1	19.9	19.9	32.4	32.4	8.1	8.1	102.4	102.4	7.7	7.7	0.9	1.0					
						0.2	95.1	19.9	19.9	32.4	32.4	8.1	8.1	102.4	102.4	7.7	7.7	1.0	1.0					
F2	Cloudy	Moderate	12:39	19.0	S	0.5	173.7	19.8	19.8	32.4	32.4	8.1	8.1	101.5	101.5	7.7	7.7	1.4	1.1	2.1	1.3			
						0.2	231.2	19.8	19.8	32.4	32.4	8.1	8.1	101.4	101.5	7.6	7.6	1.3		2.2				
						0.1	246.7	20.0	20.0	32.4	32.4	8.1	8.1	103.4	103.5	7.8	7.8	0.9		0.9				
					M	0.1	246.7	20.0	20.0	32.4	32.4	8.1	8.1	103.5	103.5	7.8	7.8	0.9	0.9					
						0.2	95.1	19.9	19.9	32.4	32.4	8.1	8.1	102.4	102.4	7.7	7.7	0.9	1.0					
						0.2	95.1	19.9	19.9	32.4	32.4	8.1	8.1	102.4	102.4	7.7	7.7	1.0	1.0					

Water Quality Monitoring Data Log Sheet

Date: 2020/01/04

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
IM15	Cloudy	Moderate	11:50	5.8	S	0.2	280.0	20.3	20.3	27.9	27.9	8.0	8.0	96.0	96.0	7.4	7.4	7.4	2.3	2.3	6.2	3.3	3.1	4.2			
						0.2	281.0	20.3	20.3	27.8	27.8	8.0	8.0	96.0	96.0	7.4	7.4	7.4	2.3	2.3	6.2	2.9	2.9				
					B	0.2	307.0	20.0	20.0	29.4	29.4	8.0	8.0	94.5	94.5	7.2	7.2	7.2	10.1	10.1	7.3	5.2	5.3		4.1		
						0.2	333.0	20.0	20.0	29.4	29.4	8.0	8.0	94.5	94.5	7.2	7.2	7.2	10.1	10.1	7.3	5.4	5.3				
IM16A	Cloudy	Moderate	12:20	6.1	S	0.1	337.0	20.3	20.3	25.0	24.9	8.0	8.0	94.5	94.5	7.4	7.4	7.3	2.9	2.9	4.5	3.0	3.2	4.1			
						0.1	2.0	20.3	20.3	24.8	24.8	8.0	8.0	94.4	94.4	7.4	7.4	7.3	3.0	3.0							
					M	0.1	344.0	20.2	20.2	28.9	28.9	8.0	8.0	93.8	93.8	7.2	7.2	7.1	4.6	4.7		4.1					
						0.1	9.0	20.2	20.2	28.9	28.9	8.0	8.0	93.7	93.7	7.2	7.2	7.1	4.8	4.7							
					B	0.2	346.0	20.2	20.2	29.4	29.4	8.0	8.0	93.5	93.6	7.1	7.1	7.1	5.8	5.8		4.1					
						0.2	1.0	20.2	20.2	29.4	29.4	8.0	8.0	93.6	93.6	7.1	7.1	7.1	5.8	5.8							
IM17	Cloudy	Moderate	12:44	5.0	S	0.3	295.0	20.3	20.3	24.8	24.7	8.0	8.0	92.4	92.4	7.2	7.2	7.2	3.0	3.1	4.8	2.8	2.8	3.4			
						0.3	313.0	20.3	20.3	24.6	24.6	8.0	8.0	92.4	92.4	7.2	7.2	7.2	3.3	3.1							
					B	0.3	295.0	20.1	20.1	28.8	28.8	8.0	8.0	90.8	90.8	7.0	7.0	7.0	6.6	6.6		4.1					
						0.3	306.0	20.1	20.1	28.8	28.8	8.0	8.0	90.8	90.8	7.0	7.0	7.0	6.5	6.6							
IM18	Cloudy	Moderate	14:51	17.5	S	0.4	340.0	20.4	20.4	27.4	27.5	8.0	8.0	93.7	93.6	7.2	7.2	6.9	2.2	2.2	6.8	2.4	2.3	4.4			
						0.4	351.0	20.4	20.4	27.6	27.6	8.0	8.0	93.5	93.5	7.2	7.2		2.1	2.1							
					M	0.4	336.0	20.1	20.1	30.6	30.6	8.0	8.0	86.7	86.6	6.6	6.6		5.8	6.0		4.1					
						0.4	354.0	20.1	20.1	30.7	30.7	8.0	8.0	86.5	86.6	6.5	6.6		6.3	4.9							
					B	0.3	334.0	20.1	20.1	31.0	31.0	8.0	8.0	86.4	86.5	6.5	6.5		12.2	12.2		4.1					
						0.3	351.0	20.1	20.1	31.0	31.0	8.0	8.0	86.6	86.6	6.5	6.5		12.1	12.1							
IM19	Cloudy	Moderate	14:33	17.6	S	0.3	350.0	20.5	20.5	28.0	28.0	8.0	8.0	93.3	93.2	7.1	7.1	7.0	2.2	2.2	3.5	2.7	2.6	4.1			
						0.4	13.0	20.5	20.5	28.1	28.0	8.0	8.0	93.1	93.2	7.1	7.1		2.2	2.2							
					M	0.6	342.0	20.6	20.6	30.5	30.5	8.0	8.0	91.7	91.5	6.9	6.9		2.3	2.3		3.2					
						0.6	351.0	20.6	20.6	30.5	30.5	8.0	8.0	91.3	91.5	6.9	6.9		2.4	2.3							
					B	0.4	347.0	20.3	20.3	30.9	30.9	8.0	8.0	88.5	88.6	6.7	6.7		6.2	6.1		6.7					
						0.4	12.0	20.3	20.3	30.9	30.9	8.0	8.0	88.6	88.6	6.7	6.7		6.1	6.1							
IM20A	Cloudy	Moderate	13:54	4.5	S	0.4	49.0	21.3	21.2	26.6	26.8	7.9	7.9	93.9	93.7	7.1	7.1	7.1	3.6	3.8	4.2	4.9	4.7	4.3			
						0.5	51.0	21.1	21.2	26.9	26.9	7.9	7.9	93.5	93.7	7.1	7.1	7.1	3.9	3.8							
					B	0.3	48.0	20.8	20.8	28.0	28.0	8.0	8.0	92.1	92.2	7.0	7.0	7.0	4.7	4.7		3.9					
						0.3	50.0	20.8	20.8	28.0	28.0	8.0	8.0	92.2	92.2	7.0	7.0	7.0	4.6	4.0							
IM21A	Cloudy	Moderate	14:07	5.0	S	0.0	135.0	21.6	21.6	27.3	27.3	7.9	7.9	94.1	94.2	7.1	7.1	7.1	4.4	4.4	4.5	5.1	5.3	5.9			
						0.0	147.0	21.6	21.6	27.3	27.3	7.9	7.9	94.2	94.2	7.1	7.1	7.1	4.3	4.4							
					B	0.1	79.0	21.6	21.6	27.5	27.5	7.9	7.9	95.2	95.5	7.2	7.2	7.2	4.6	4.6		6.4					
						0.1	83.0	21.6	21.6	27.5	27.5	7.9	7.9	95.7	95.5	7.2	7.2	7.2	4.6	4.6							
IM22A	Cloudy	Moderate	14:14	5.4	S	0.2	42.0	20.8	20.8	26.7	26.7	7.9	7.9	92.5	92.4	7.1	7.1	7.1	2.8	2.8	3.8	2.9	3.3	4.5			
						0.2	44.0	20.8	20.8	26.7	26.7	7.9	7.9	92.3	92.4	7.1	7.1	7.1	2.9	2.9							
					B	0.1	56.0	20.6	20.6	29.5	29.4	7.9	7.9	89.0	89.1	6.7	6.7	6.7	4.9	4.9		5.8					
						0.1	60.0	20.6	20.6	29.4	29.4	7.9	7.9	89.1	89.1	6.7	6.7	6.7	4.8	4.9							

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
						Value	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*	
E1	FINE	Moderate	00:01	8.4	S	0.6	16.8	20.8	20.8	32.0	32.0	8.0	8.0	91.7	91.9	6.8	6.8	6.7	2.8	2.8	4.9	5.5	5.3	7.3		
						0.5	181.7	20.8		32.0	32.0	8.0		92.0	6.8	2.7			5.0							
						0.1	319.9	20.8		32.0	32.0	7.9		89.4	6.6	5.0			7.8							
					M	0.1	319.9	20.7	32.0	32.0	7.9	89.4	6.6	5.3	7.6											
						B	0.6	56.4	20.7	32.0	32.0	7.9	89.4	6.6	6.6	6.6	6.6	6.9	6.9	8.8						
							0.4	183.3	20.7	32.0	32.0	7.9	88.9	6.6	9.2	9.0										
E2	FINE	Moderate	20:28	9.1	S	0.7	97.2	20.8	20.8	32.4	32.4	8.0	8.0	101.3	101.4	7.5	7.5	7.5	3.4	3.0	3.0	3.4	5.3	5.3	7.3	<0.001
						0.7	97.2	20.8		32.4	32.4	8.0		101.4	7.5	2.9				5.2						
						1.0	329.4	20.8		32.4	32.4	8.0		100.9	7.5	3.0				6.8						
					M	1.0	329.4	20.8	32.4	32.4	8.0	101.1	7.5	2.9	7.3											
						B	0.6	300.0	20.8	32.4	32.4	8.0	100.0	7.4	4.5	9.7										
							0.6	17.9	20.8	32.4	32.4	8.0	99.9	7.4	9.8	9.7										
E3	Cloudy	Rough	21:25	17.1	S	0.2	187.0	19.9	19.9	33.6	33.6	8.2	8.2	104.4	104.4	7.8	7.8	7.8	3.7	3.3	3.3	3.7	6.6	6.5	8.0	<0.001
						0.2	189.0	19.9		33.6	33.6	8.2		104.4	7.8	3.3				6.4						
						0.2	187.0	19.9		33.6	33.6	8.2		104.2	7.8	3.3				7.9						
					M	0.2	188.0	19.9	33.6	33.6	8.2	104.2	7.8	3.3	8.3											
						B	0.3	151.0	19.9	33.6	33.6	8.2	103.5	7.7	4.3	9.4										
							0.3	163.0	19.9	33.6	33.6	8.2	102.9	7.7	4.4	9.4										
E4	Cloudy	Rough	19:59	12.5	S	0.4	285.0	20.2	20.2	32.6	32.6	8.1	8.1	102.4	102.4	7.7	7.6	7.6	5.1	2.5	2.5	5.1	5.5	5.4	6.9	<0.001
						0.4	297.0	20.2		32.6	32.6	8.1		102.4	7.7	2.5				5.2						
						0.3	233.0	20.1		33.5	33.5	8.1		100.6	7.5	4.8				6.2						
					M	0.3	236.0	20.1	33.5	33.5	8.1	100.6	7.5	4.8	6.6											
						B	0.2	228.0	20.2	33.5	33.5	8.1	100.3	7.5	7.7	9.0										
							0.2	228.0	20.2	33.5	33.5	8.1	100.3	7.5	8.1	8.7										
E5	Cloudy	Rough	20:12	6.7	S	0.1	328.0	19.9	19.9	31.6	31.6	8.1	8.1	97.6	97.6	7.4	7.4	7.4	6.1	6.0	6.1	7.6	7.9	9.6	<0.001	
						0.1	0.0	19.9		31.6	31.6	8.1		97.6	7.4	6.0						8.1				
						0.1	349.0	19.9		31.6	31.6	8.1		97.6	7.4	6.0						9.6				
					M	0.1	3.0	19.9	31.6	31.6	8.1	97.5	7.4	6.0	9.1											
						B	0.1	28.0	19.9	31.7	31.7	8.1	97.4	7.4	6.2	11.4										
							0.1	29.0	19.9	31.7	31.7	8.1	97.4	7.4	6.2	11.5										
E6	Cloudy	Moderate	21:16	6.4	S	0.3	164.0	20.6	20.6	26.9	26.9	8.0	8.0	98.3	98.3	7.5	7.3	7.3	2.1	1.3	1.3	2.1	4.9	4.8	6.3	<0.001
						0.3	171.0	20.6		26.9	26.9	8.0		98.3	7.5	1.3				4.6						
						0.3	150.0	20.5		28.6	28.6	8.0		92.0	7.0	2.3				5.9						
					M	0.3	156.0	20.5	28.6	28.6	8.0	92.1	7.0	2.2	5.7											
						B	0.3	130.0	20.4	30.3	30.3	8.0	88.0	6.7	2.6	8.6										
							0.3	135.0	20.4	30.3	30.3	8.0	88.3	6.7	2.6	8.2										
E7A	Cloudy	Moderate	21:38	5.5	S	0.2	196.0	20.7	20.7	28.1	28.0	8.0	8.0	94.1	94.2	7.2	7.2	7.2	4.9	4.0	4.9	4.1	4.4	6.8	<0.001	
						0.2	202.0	20.7		28.0	28.0	8.0		94.2	7.2	3.8						4.6				
						0.2	175.0	20.5		29.0	29.0	8.0		89.6	6.8	5.9						9.2				
					B	0.2	179.0	20.5	29.0	29.0	8.0	89.8	6.8	5.8	9.4											
						S	0.2	250.4	20.1	32.5	32.5	8.1	101.0	7.6	4.3	4.8										
							0.2	250.4	20.1	32.5	32.5	8.1	101.1	7.6	4.2	5.0										
F1	FINE	Moderate	23:06	20.2	M	1.0	70.6	20.1	20.1	32.5	32.5	8.1	8.1	100.4	100.4	7.5	7.5	7.5	5.6	4.8	4.7	5.6	4.8	7.4	7.9	<0.001
						0.4	137.1	20.1		32.5	32.5	8.1		100.4	7.5	4.6				7.4						
						2.2	91.0	20.0		32.5	32.5	8.1		99.9	7.5	7.4				11.4						
					B	0.5	17.1	20.0	32.5	32.5	8.1	99.9	7.5	8.5	11.1											
						S	0.3	91.7	19.9	32.5	32.5	8.1	102.4	7.7	2.1	3.8										
							0.3	91.7	19.9	32.5	32.5	8.1	102.6	7.7	2.4	3.6										
F2	FINE	Moderate	22:32	19.2	M	1.3	94.0	19.9	19.9	32.5	32.5	8.1	8.1	101.7	101.8	7.7	7.7	7.7	3.2	2.4	2.4	3.2	4.8	5.1	5.3	<0.001
						0.4	154.0	19.9		32.5	32.5	8.1		101.8	7.7	2.3				5.3						
						B	0.3	141.0		19.9	32.5	32.5		8.1	100.9	7.6				4.7			7.1			
					0.3		141.0	19.9	32.5	32.5	8.1	100.7	7.6	5.2	7.3											

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM6	FINE	Moderate	21:39	16.3	S	0.4	314.0	19.9	19.9	32.4	32.4	8.1	8.1	103.7	103.7	7.8	7.8	2.8	2.7	3.3	5.6	5.9	7.0	<0.001
						0.4	290.0	19.9		32.4	32.4	8.1		103.7	103.7	7.8		2.6			6.1			0.004
						0.3	226.1	19.9		32.4	32.4	8.1		103.1	103.2	7.8		3.0			6.7			0.002
					M	0.3	226.1	19.9	32.4	32.4	8.1	103.2	103.2	7.8	2.8	6.8	<0.001							
						0.8	189.9	19.9	32.4	32.4	8.1	102.4	102.5	7.7	4.5	8.1	<0.001							
						0.2	184.6	19.9	32.4	32.4	8.1	102.5	102.5	7.7	4.0	8.8	0.003							
IM7	Cloudy	Rough	22:34	14.6	S	0.2	93.0	19.7	19.7	33.6	33.6	8.2	8.2	103.9	103.9	7.8	7.8	3.2	3.2	5.0	5.0	5.1	6.5	<0.001
						0.2	97.0	19.7		33.6	33.6	8.2		103.6	103.6	7.8		3.3			6.1			0.004
						0.2	102.0	19.7		33.6	33.6	8.2		103.6	103.6	7.8		3.5			6.4			0.002
					M	0.1	57.0	19.7	33.6	33.6	8.2	103.1	103.1	7.7	8.4	8.0	<0.001							
						0.1	59.0	19.7	33.6	33.6	8.2	103.1	103.1	7.7	8.5	8.2	0.003							
						0.2	153.0	19.8	33.6	33.6	8.2	104.1	104.1	7.8	2.8	7.4	<0.001							
IM8	Cloudy	Rough	22:18	13.1	S	0.2	157.0	19.8	19.8	33.6	33.6	8.2	8.2	104.1	104.1	7.8	7.8	2.8	2.8	4.5	7.4	7.2	8.7	<0.001
						0.3	129.0	19.7		33.6	33.6	8.2		104.1	104.1	7.8		3.4			7.0			0.004
						0.3	129.0	19.7		33.6	33.6	8.2		104.1	104.1	7.8		3.3			8.6			0.002
					M	0.3	185.0	19.7	33.6	33.6	8.2	103.9	103.9	7.8	7.6	8.4	<0.001							
						0.3	186.0	19.7	33.6	33.6	8.2	103.9	103.9	7.8	7.3	10.6	0.003							
						0.4	169.0	20.0	33.6	33.6	8.1	102.0	102.1	7.6	2.6	10.4	<0.001							
IM9	Cloudy	Rough	21:53	15.0	S	0.5	178.0	20.0	20.0	33.6	33.6	8.1	8.1	102.1	102.1	7.6	7.6	2.6	2.6	3.6	7.3	7.3	8.2	<0.001
						0.4	152.0	20.0		33.6	33.6	8.1		101.7	101.7	7.6		2.9			8.1			0.004
						0.4	164.0	20.0		33.6	33.6	8.1		101.6	101.6	7.6		2.9			8.8			0.002
					M	0.2	164.0	20.0	33.6	33.6	8.1	101.1	101.1	7.5	5.5	8.7	<0.001							
						0.2	165.0	20.0	33.6	33.6	8.1	101.1	101.1	7.5	5.2	9.0	0.003							
						0.1	110.0	20.2	33.6	33.6	8.1	102.7	102.7	7.6	3.9	8.9	<0.001							
IM10	Cloudy	Rough	21:09	10.4	S	0.1	113.0	20.2	20.2	33.6	33.6	8.1	8.1	102.7	102.7	7.6	7.6	4.0	3.9	4.7	11.5	11.7	12.8	<0.001
						0.2	100.0	20.2		33.6	33.6	8.1		102.4	102.4	7.6		3.9			11.9			0.004
						0.2	104.0	20.2		33.6	33.6	8.1		102.3	102.3	7.6		4.2			13.0			0.002
					M	0.2	99.0	20.2	33.6	33.6	8.1	101.8	101.8	7.6	6.1	13.4	<0.001							
						0.2	102.0	20.2	33.6	33.6	8.1	101.7	101.7	7.6	6.4	13.5	0.003							
						0.5	127.0	20.3	33.6	33.6	8.1	102.1	102.1	7.6	5.8	10.0	<0.001							
IM11A	Cloudy	Rough	20:55	5.5	S	0.5	128.0	20.3	20.3	33.6	33.6	8.1	8.1	102.1	102.1	7.6	7.6	5.8	5.8	5.7	10.2	10.1	10.5	<0.001
						0.3	111.0	20.3		33.6	33.6	8.1		101.8	101.8	7.6		5.6			10.8			0.004
						0.3	121.0	20.3		33.6	33.6	8.1		101.8	101.8	7.6		5.6			11.1			0.002
					M	0.4	212.0	20.3	33.6	33.6	8.1	101.8	101.8	7.6	5.2	10.4	<0.001							
						0.4	212.0	20.3	33.6	33.6	8.1	101.9	101.9	7.6	5.3	10.2	0.003							
						0.3	180.0	20.3	33.6	33.6	8.1	102.2	102.2	7.6	5.1	10.8	<0.001							
IM12	Cloudy	Rough	20:43	15.3	S	0.3	180.0	20.2	20.2	33.6	33.6	8.1	8.1	102.2	102.2	7.6	7.6	5.0	5.0	5.2	10.5	10.7	10.8	<0.001
						0.3	180.0	20.2		33.6	33.6	8.1		102.2	102.2	7.6		5.0			11.6			0.004
						0.2	192.0	20.2		33.6	33.6	8.1		101.7	101.7	7.6		5.4			11.4			0.002
					M	0.2	203.0	20.2	33.6	33.6	8.1	101.6	101.6	7.6	5.5	11.5	<0.001							
						0.6	281.0	20.3	32.6	32.6	8.1	103.3	103.3	7.7	2.6	5.2	<0.001							
						0.6	302.0	20.3	32.6	32.6	8.1	103.3	103.3	7.7	2.6	5.3	0.004							
IM13	Cloudy	Rough	20:21	16.6	S	0.3	263.0	20.2	20.2	33.6	33.6	8.1	8.1	103.7	103.7	7.7	7.7	3.7	3.8	3.6	5.1	5.2	5.6	<0.001
						0.3	271.0	20.2		33.6	33.6	8.1		103.6	103.7	7.7		4.0			5.3			0.002
						0.2	198.0	20.2		33.5	33.5	8.1		103.1	103.1	7.7		4.4			6.1			0.003
					M	0.2	213.0	20.2	33.5	33.5	8.1	103.1	103.1	7.7	4.5	6.4	<0.001							
						0.5	242.0	20.2	32.5	32.5	8.1	101.6	101.7	7.6	4.2	8.2	0.004							
						0.5	243.0	20.2	32.5	32.5	8.1	101.7	101.7	7.6	4.3	7.8	0.002							
IM14	Cloudy	Rough	20:12	11.8	S	0.3	222.0	20.3	20.3	33.6	33.6	8.1	8.1	101.5	101.5	7.5	7.6	4.4	4.4	5.1	6.6	6.8	7.0	<0.001
						0.4	239.0	20.2		33.6	33.6	8.1		101.4	101.4	7.5		4.4			7.0			0.004
						0.3	194.0	20.2		33.6	33.6	8.1		100.9	100.9	7.5		6.3			6.4			<0.001
					M	0.3	205.0	20.2	33.6	33.6	8.1	100.9	100.9	7.5	6.7	6.1	0.003							
						0.3	205.0	20.2	33.6	33.6	8.1	100.9	100.9	7.5	6.7	6.1	0.002							
						0.3	205.0	20.2	33.6	33.6	8.1	100.9	100.9	7.5	6.7	6.1	0.003							

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		Value	Average	Value
IM15	Cloudy	Moderate	19:59	7.0	S	0.1	328.0	20.1	20.1	31.3	31.3	8.0	8.0	98.9	98.9	7.5	7.5	7.5	4.1	4.1	6.6	6.7	7.3		
						0.1	337.0	20.1	20.1	31.3	31.3	8.0	8.0	98.9	98.9	7.5	7.5	7.5	4.1	4.1	6.8	6.7			
					M	0.1	23.0	20.0	20.0	31.6	31.6	8.0	8.0	98.8	98.8	7.5	7.5	7.5	4.2	4.2	7.0	7.2		7.4	7.2
						0.1	23.0	20.0	20.0	31.6	31.6	8.0	8.0	98.8	98.8	7.5	7.5	7.5	4.2	4.2	7.4	7.2		7.4	7.2
					B	0.1	45.0	20.0	20.0	31.7	31.7	8.0	8.0	98.2	98.3	7.4	7.4	7.4	5.5	5.5	8.1	8.0		8.1	8.0
						0.1	46.0	20.0	20.0	31.7	31.7	8.0	8.0	98.3	98.3	7.4	7.4	7.4	5.5	5.5	7.8	8.0		7.8	8.0
IM16A	Cloudy	Rough	20:28	7.1	S	0.1	221.0	20.1	20.1	30.6	30.6	8.0	8.0	98.5	98.5	7.5	7.5	7.5	4.9	4.9	7.2	7.4	7.8		
						0.1	238.0	20.1	20.1	30.6	30.6	8.0	8.0	98.5	98.5	7.5	7.5	7.5	4.9	4.9	7.5	7.4			
					M	0.1	179.0	20.1	20.1	30.7	30.7	8.0	8.0	98.5	98.5	7.5	7.5	7.5	4.9	4.9	7.4	7.6		7.4	7.6
						0.1	196.0	20.1	20.1	30.7	30.7	8.0	8.0	98.5	98.5	7.5	7.5	7.5	4.9	4.9	7.7	7.6		7.7	7.6
					B	0.1	109.0	20.1	20.1	31.0	31.0	8.0	8.0	98.5	98.5	7.5	7.5	7.5	6.1	6.1	8.6	8.6		6.1	8.6
						0.1	117.0	20.1	20.1	31.0	31.0	8.0	8.0	98.5	98.5	7.5	7.5	7.5	6.2	6.2	8.6	8.6		6.2	8.6
IM17	Cloudy	Moderate	20:50	5.7	S	0.2	126.0	20.5	20.5	28.1	28.1	8.0	8.0	94.8	94.7	7.2	7.2	7.2	3.5	3.5	6.8	6.6	6.1		
						0.2	129.0	20.5	20.5	28.1	28.1	8.0	8.0	94.6	94.7	7.2	7.2	7.2	3.4	3.5	6.4	6.6			
					B	0.2	155.0	20.4	20.4	30.3	30.3	8.0	8.0	87.4	87.4	6.6	6.6	6.6	5.0	5.0	5.8	5.7		5.0	5.7
						0.2	169.0	20.4	20.4	30.3	30.3	8.0	8.0	87.7	87.6	6.6	6.6	6.6	5.0	5.0	5.5	5.7		5.0	5.7
					S	0.5	170.0	20.5	20.5	27.5	27.5	8.0	8.0	96.6	96.6	7.4	7.4	7.4	1.5	1.5	3.6	3.8		1.5	3.8
						0.5	179.0	20.5	20.5	27.5	27.5	8.0	8.0	96.5	96.6	7.4	7.4	7.4	1.5	1.5	3.9	3.8		1.5	3.8
IM18	Cloudy	Moderate	22:43	17.0	M	0.6	158.0	20.5	20.5	29.1	29.1	8.0	8.0	92.1	92.1	7.0	7.0	7.0	1.9	1.9	5.8	5.6	6.2		
						0.6	167.0	20.5	20.5	29.1	29.1	8.0	8.0	92.1	92.1	7.0	7.0	7.0	1.9	1.9	5.4	5.6			
					B	0.4	149.0	20.4	20.4	30.6	30.6	8.0	8.0	87.2	87.2	6.6	6.6	6.6	6.2	6.3	9.0	9.2		6.2	9.2
						0.4	158.0	20.4	20.4	30.6	30.6	8.0	8.0	87.2	87.2	6.6	6.6	6.6	6.4	6.3	9.3	9.2		6.4	6.3
					S	0.6	176.0	20.9	20.9	28.3	28.3	8.0	8.0	96.8	96.8	7.3	7.3	7.3	2.2	2.2	6.3	6.2		2.2	6.2
						0.6	178.0	20.9	20.9	28.3	28.3	8.0	8.0	96.8	96.8	7.3	7.3	7.3	2.2	2.2	6.1	6.2		2.2	6.2
IM19	Cloudy	Moderate	22:31	18.2	M	0.5	165.0	20.7	20.7	30.3	30.3	8.0	8.0	94.5	94.5	7.1	7.1	7.1	1.2	1.2	6.5	6.6	6.6		
						0.6	174.0	20.7	20.7	30.3	30.3	8.0	8.0	94.5	94.5	7.1	7.1	7.1	1.2	1.2	6.7	6.6			
					B	0.5	160.0	20.5	20.5	30.6	30.6	8.0	8.0	90.8	90.9	6.8	6.8	6.8	2.6	2.6	7.1	7.0		2.6	2.6
						0.5	168.0	20.5	20.5	30.6	30.6	8.0	8.0	90.9	90.9	6.8	6.8	6.8	2.5	2.6	6.8	7.0		2.5	2.6
					S	0.4	248.0	21.0	21.0	26.8	26.8	7.9	7.9	99.0	99.0	7.6	7.5	7.5	1.8	1.8	5.8	6.0		1.8	1.8
						0.4	271.0	21.0	21.0	26.8	26.8	7.9	7.9	98.9	99.0	7.5	7.5	7.5	1.8	1.8	6.1	6.2		1.8	1.8
IM20A	Cloudy	Moderate	22:01	4.2	B	0.3	242.0	21.0	21.0	28.2	28.2	7.9	7.9	93.2	93.2	7.0	7.1	7.1	9.5	9.5	8.1	8.3	7.1		
						0.3	246.0	21.0	21.0	28.2	28.2	7.9	7.9	93.4	93.3	7.1	7.1	7.1	9.6	9.5	8.5	8.3			
					S	0.3	206.0	21.0	21.0	28.6	28.6	8.0	8.0	90.4	90.4	6.8	6.8	6.8	10.6	10.5	12.0	12.2		10.6	10.5
						0.3	216.0	20.9	20.9	28.6	28.6	8.0	8.0	90.3	90.3	6.8	6.8	6.8	10.5	10.5	12.4	12.3		10.5	10.5
					B	0.1	223.0	20.7	20.7	29.3	29.3	8.0	8.0	88.9	89.0	6.7	6.7	6.7	8.5	8.5	12.6	12.3		8.5	8.5
						0.2	233.0	20.7	20.7	29.3	29.3	8.0	8.0	89.0	89.0	6.7	6.7	6.7	8.5	8.5	12.0	12.3		8.5	8.5
IM21A	Cloudy	Moderate	22:10	5.0	S	0.5	223.0	22.3	22.3	28.9	28.9	8.0	8.0	94.6	94.6	7.0	7.0	7.0	7.7	7.7	13.7	13.5	13.6		
						0.5	236.0	22.3	22.3	28.9	28.9	8.0	8.0	94.6	94.6	7.0	7.0	7.0	7.7	7.7	13.3	13.5			
					B	0.3	202.0	20.8	20.8	29.2	29.2	8.0	8.0	89.7	89.7	6.8	6.8	6.8	6.2	6.2	13.6	13.8		6.2	6.2
						0.3	213.0	20.9	20.9	29.2	29.2	8.0	8.0	89.7	89.7	6.8	6.8	6.8	6.3	6.2	13.9	13.8		6.3	6.2
					S	0.1	223.0	20.7	20.7	29.3	29.3	8.0	8.0	88.9	89.0	6.7	6.7	6.7	8.5	8.5	12.6	12.3		8.5	8.5
						0.2	233.0	20.7	20.7	29.3	29.3	8.0	8.0	89.0	89.0	6.7	6.7	6.7	8.5	8.5	12.0	12.3		8.5	8.5

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*						
E1	Fine	Moderate	12:25	8.9	S	0.2	2.5	20.8	20.8	31.8	31.8	7.8	7.8	92.1	92.3	6.8	6.8	2.4	2.4	4.1	5.8	8.4	8.4								
						0.5	147.4	20.8		31.8	31.8	7.8		92.4	6.9	2.3															
					M	0.6	49.4	20.5	31.9	31.9	7.8	89.6	6.7	2.4																	
						0.8	130.0	20.5	31.9	31.9	7.8	89.5	6.7	2.7																	
					B	0.5	272.8	20.5	32.0	32.0	7.8	90.3	6.7	7.2																	
						0.2	341.3	20.5	32.0	32.0	7.8	89.9	6.7	7.7																	
E2	Fine	Moderate	16:35	9.2	S	0.6	239.9	20.9	20.9	32.4	32.4	8.1	8.1	101.4	101.5	7.5	7.4	3.4	3.4	4.5	4.9	6.4	<0.001								
						0.6	239.9	20.9		32.4	32.4	8.1		101.5	7.5	3.3															
					M	0.3	33.7	20.8	32.4	32.4	8.1	99.8	7.4	3.9																	
						0.5	359.8	20.8	32.4	32.4	8.1	100.1	7.4	3.7																	
					B	0.3	92.3	20.7	32.4	32.4	8.1	97.9	7.3	6.6																	
						0.3	28.9	20.7	32.4	32.4	8.1	98.1	7.3	6.0																	
E3	Fine	Rough	14:29	14.8	S	0.5	310.0	20.2	20.2	33.7	33.7	8.1	8.1	104.2	104.3	7.7	7.8	2.7	2.7	2.5	4.1	4.5	4.5								
						0.5	333.0	20.2		33.7	33.7	8.1		104.3	7.8	2.7															
					M	0.3	311.0	20.0	33.7	33.7	8.1	105.5	7.9	1.9																	
						0.3	316.0	20.0	33.7	33.7	8.1	105.4	7.9	2.0																	
					B	0.4	312.0	19.9	33.7	33.7	8.2	104.0	7.8	2.8																	
						0.5	317.0	19.9	33.7	33.7	8.2	103.9	7.8	2.8																	
E4	Fine	Moderate	15:44	11.8	S	0.3	45.0	20.4	20.4	30.8	30.9	8.1	8.1	106.5	106.5	8.0	7.8	2.0	2.0	4.5	7.2	6.4	6.4								
						0.4	49.0	20.3		31.1	30.9	8.1		106.4	8.0	2.0															
					M	0.4	51.0	20.0	32.4	32.4	8.1	101.0	7.6	2.3																	
						0.4	55.0	20.0	32.4	32.4	8.1	100.6	7.6	2.5																	
					B	0.3	62.0	19.9	33.1	33.0	8.1	98.9	7.4	9.1																	
						0.3	62.0	20.0	33.0	33.0	8.1	99.1	7.4	9.2																	
E5	Fine	Moderate	16:28	7.0	S	0.4	10.0	20.2	20.2	30.6	30.6	8.1	8.1	98.0	98.0	7.4	7.4	8.7	8.6	9.3	10.7	11.8	11.8								
						0.4	10.0	20.2		30.6	30.6	8.1		98.0	7.4	8.5															
					M	0.4	17.0	20.2	30.6	30.6	8.1	97.9	7.4	9.3																	
						0.4	17.0	20.2	30.6	30.6	8.1	97.9	7.4	9.4																	
					B	0.4	17.0	20.2	30.7	30.7	8.1	98.1	7.4	9.9																	
						0.4	17.0	20.2	30.7	30.7	8.1	98.2	7.4	9.9																	
E6	Fine	Moderate	15:18	5.9	S	0.3	334.0	20.7	20.7	26.2	26.1	8.1	8.1	95.7	95.7	7.4	7.4	1.9	1.9	3.1	6.3	7.1	7.1								
						0.3	352.0	20.7		26.1	26.1	8.1		95.7	7.4	1.9															
					B	0.3	340.0	20.4	28.7	28.7	8.1	91.8	7.0	4.3																	
						0.3	6.0	20.4	28.7	28.7	8.1	91.8	7.0	4.2																	
					S	0.3	23.0	21.0	21.0	27.6	27.6	8.0	99.2	7.5	2.3																
						0.4	25.0	21.0	27.6	27.6	8.0	99.1	7.5	2.3																	
E7A	Fine	Moderate	14:57	5.1	S	0.3	21.0	20.5	20.5	29.0	29.0	8.0	8.0	90.8	90.8	6.9	6.9	4.7	4.7	3.5	6.7	7.4	7.4								
						0.3	21.0	20.5		29.0	29.0	8.0		90.8	6.9	4.7															
					B	0.3	21.0	20.5	29.0	29.0	8.0	90.8	6.9	4.7																	
						0.3	21.0	20.5	29.0	29.0	8.0	90.8	6.9	4.7																	
					F1	FINE	Moderate	13:18	20.3	S	0.2	82.1	20.3	20.3	32.4	32.4	8.1	8.1	101.8		101.9			7.6	7.5	2.4	2.5	2.7	5.1	6.1	6.1
											0.2	82.1	20.3		32.4	32.4	8.1		101.9		7.6			2.5							
M	0.3	290.7	20.1	32.5						32.5	8.1	99.7	7.5	2.4																	
	0.4	339.2	20.1	32.5						32.5	8.1	99.7	7.5	2.4																	
B	0.8	65.9	20.1	32.5						32.5	8.1	98.9	7.4	3.1																	
	1.1	150.2	20.1	32.5						32.5	8.1	98.7	7.4	3.4																	
F2	FINE	Moderate	13:50	19.1	S	0.1	168.6	20.2	20.2	32.5	32.5	8.2	8.2	101.9	102.0	7.6	7.5	2.6	2.7	4.4	6.6	7.8	7.8								
						0.1	168.6	20.2		32.5	32.5	8.2		102.1	7.6	2.7															
					M	0.2	245.6	20.0	32.5	32.5	8.2	99.2	7.5	3.4																	
						0.4	343.4	20.0	32.5	32.5	8.2	99.3	7.5	3.2																	
					B	0.5	29.8	20.0	32.5	32.5	8.1	98.3	7.4	6.9																	
						0.5	88.9	20.0	32.5	32.5	8.1	97.9	7.4	7.3																	

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
F3	FINE	Moderate	14:29	17.3	S	0.8	20.2	20.0	20.0	32.4	32.4	8.2	8.2	104.5	104.6	7.9	7.9	7.8	1.5	1.6	3.9	4.7	5.0	6.4	<0.001
						0.8	20.2	20.0		32.4	32.4	8.2		104.7	7.9	1.7			5.3			<0.001			
					M	1.2	286.7	19.9	32.4	32.4	8.2	102.6	7.7	1.9	5.7	<0.001									
						0.6	311.0	19.9	32.4	32.4	8.2	103.1	7.8	1.8	5.4	<0.001									
					B	0.6	59.5	19.9	32.4	32.4	8.2	100.6	7.6	7.6	7.6	8.1	8.4	<0.001							
						0.3	281.1	19.9	32.4	32.4	8.2	100.2	7.5	7.6	8.6	8.7	<0.001								
F4	FINE	Moderate	16:08	13.5	S	0.6	107.4	20.7	20.7	32.4	32.4	8.2	8.2	102.9	103.0	7.6	7.6	7.6	2.4	2.4	5.3	5.0	5.2	6.5	<0.001
						0.6	107.4	20.7		32.4	32.4	8.2		103.0	7.6	2.4			4.9			<0.001			
					M	0.6	268.8	20.7	32.5	32.5	8.2	101.9	7.6	3.7	5.3	<0.001									
						0.6	184.7	20.7	32.5	32.5	8.2	101.7	7.5	3.9	5.1	<0.001									
					B	0.2	262.4	20.7	32.5	32.5	8.2	101.1	7.5	9.9	9.2	9.3	<0.001								
						0.9	246.5	20.7	32.5	32.5	8.2	101.0	7.5	9.2	9.3	9.3	<0.001								
F5	Fine	Moderate	03:40	6.7	S	0.3	22.0	20.4	20.4	30.4	30.4	8.2	8.2	106.6	106.6	8.0	8.0	7.9	1.9	1.9	3.9	2.1	2.3	4.0	<0.001
						0.3	22.0	20.4		30.4	30.4	8.2		106.5	8.0	1.9			2.4			<0.001			
					M	0.3	24.0	20.1	31.5	31.5	8.2	102.0	7.7	3.0	3.6	<0.001									
						0.3	24.0	20.1	31.4	31.5	8.2	102.1	7.7	3.0	3.2	<0.001									
					B	0.2	10.0	19.9	31.9	31.9	8.2	97.6	7.4	6.0	6.0	6.2	<0.001								
						0.2	10.0	19.9	31.9	31.9	8.2	97.7	7.4	7.0	6.4	6.4	<0.001								
F6	Fine	Moderate	13:26	14.2	S	0.1	198.0	20.8	20.8	27.6	27.6	8.0	8.0	96.8	96.8	7.4	7.4	7.1	1.4	1.3	2.5	3.8	4.0	5.6	<0.001
						0.1	209.0	20.8		27.6	27.6	8.0		96.7	7.4	1.3			4.1			<0.001			
					M	0.2	282.0	20.4	30.2	30.2	8.0	90.1	6.8	5.5	5.4	<0.001									
						0.2	296.0	20.4	30.2	30.2	8.0	90.1	6.8	5.2	5.4	<0.001									
					B	0.2	316.0	20.4	30.7	30.7	8.0	87.0	6.6	7.5	7.4	<0.001									
						0.2	316.0	20.4	30.7	30.7	8.0	87.1	6.6	4.9	4.9	7.2	<0.001								
IM1	FINE	Moderate	12:59	10.1	S	0.1	9.9	20.6	20.5	32.3	32.3	8.1	8.1	100.3	100.2	7.5	7.4	7.4	3.3	3.3	3.4	5.8	6.0	7.4	<0.001
						0.2	357.9	20.5		32.3	32.3	8.1		100.0	7.4	3.2			6.1			<0.001			
					M	0.2	282.9	20.5	32.3	32.3	8.1	99.7	7.4	7.1	7.0	<0.001									
						0.7	330.5	20.5	32.3	32.3	8.1	99.8	7.4	3.5	6.9	<0.001									
					B	0.7	118.4	20.5	32.3	32.3	8.1	98.7	7.4	3.3	9.1	9.3	<0.001								
						0.5	318.8	20.5	32.3	32.3	8.1	98.5	7.3	3.5	9.1	9.3	<0.001								
IM2	FINE	Moderate	12:37	11.4	S	0.0	121.2	20.9	20.9	31.9	31.9	7.9	7.9	93.6	93.8	6.9	6.9	6.9	2.7	2.6	3.1	5.7	5.7	7.2	<0.001
						0.6	10.0	20.9		31.9	31.9	7.9		93.9	7.0	2.5			5.6			<0.001			
					M	0.2	247.2	20.6	32.0	32.0	7.9	91.9	6.8	7.0	6.9	<0.001									
						0.2	247.2	20.6	32.0	32.0	7.9	91.4	6.8	3.0	6.7	<0.001									
					B	0.7	18.0	20.5	32.2	32.2	7.9	93.0	6.9	8.9	9.1	<0.001									
						0.2	90.9	20.5	32.2	32.2	7.9	93.6	7.0	3.6	9.3	9.3	<0.001								
IM3	FINE	Moderate	17:26	15.3	S	0.3	35.0	20.6	20.6	32.4	32.4	8.2	8.2	100.8	100.8	7.5	7.5	7.5	2.4	2.4	2.9	5.2	5.3	7.2	<0.001
						0.3	35.0	20.6		32.4	32.4	8.2		100.7	7.5	2.3			5.4			<0.001			
					M	0.4	348.2	20.7	32.4	32.4	8.2	100.7	7.5	2.9	7.2	<0.001									
						0.5	116.9	20.7	32.4	32.4	8.2	101.0	7.5	3.0	7.7	<0.001									
					B	0.3	288.2	20.2	32.4	32.4	8.2	98.8	7.4	9.2	9.0	<0.001									
						0.8	95.3	20.2	32.4	32.4	8.2	98.7	7.4	3.4	8.7	9.0	<0.001								
IM4	FINE	Moderate	17:03	17.2	S	0.5	282.5	20.8	20.8	32.4	32.4	8.2	8.2	102.9	103.0	7.6	7.5	7.5	2.3	2.3	3.5	5.3	5.6	8.0	<0.001
						0.5	282.5	20.8		32.4	32.4	8.2		103.0	7.6	2.2			5.9			<0.001			
					M	0.7	307.8	20.4	32.4	32.4	8.2	100.2	7.5	2.5	6.4	<0.001									
						0.7	238.8	20.4	32.4	32.4	8.2	100.2	7.5	2.4	6.8	<0.001									
					B	0.6	276.9	20.3	32.4	32.4	8.2	99.1	7.4	11.6	11.9	<0.001									
						0.3	321.4	20.3	32.4	32.4	8.2	98.5	7.4	5.4	5.8	12.1	<0.001								
IM5	FINE	Moderate	15:38	15.1	S	0.3	356.1	20.4	20.4	32.4	32.4	8.2	8.2	102.7	102.8	7.7	7.6	7.6	2.7	2.7	8.3	5.3	5.2	9.4	<0.001
						1.7	21.0	20.4		32.4	32.4	8.2		102.9	7.7	2.6			5.1			<0.001			
					M	0.7	305.7	20.4	32.4	32.4	8.2	101.2	7.6	4.6	8.7	<0.001									
						0.9	279.2	20.4	32.4	32.4	8.2	100.9	7.5	5.3	9.2	<0.001									
					B	0.2	297.1	20.4	32.4	32.4	8.2	98.6	7.4	14.1	14.0	<0.001									
						0.3	95.9	20.4	32.4	32.4	8.2	98.3	7.3	17.7	13.8	14.0	<0.001								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*						
IM6	FINE	Moderate	15:19	16.2	S	0.2	65.1	20.0	20.0	32.5	32.5	8.2	8.2	104.2	104.6	7.8	7.8	7.8	3.6	3.4	6.3	7.1	6.9	0.001							
						1.3	318.2	20.0		32.5	32.5	8.2		104.9		7.9			3.1			6.7		<0.001							
					M	0.3	131.8	20.0	20.0	32.5	32.5	8.2	103.9	7.8	7.8	4.6	4.3	7.8	7.7	0.001											
						1.2	262.0	20.0	20.0	32.5	32.5	8.2	104.0	7.8	7.8	3.9	4.3	7.5	7.7	0.006											
					B	1.1	119.0	20.0	20.0	32.5	32.5	8.2	103.1	7.7	7.7	11.6	11.4	8.5	8.7	0.001											
						0.3	201.5	20.0	20.0	32.5	32.5	8.2	103.1	7.7	7.7	11.2	11.4	8.8	8.7	<0.001											
IM7	Fine	Rough	13:34	14.6	S	0.4	294.0	20.0	20.0	33.7	33.7	8.1	8.1	104.0	104.0	7.8	7.8	7.7	2.8	2.8	5.1	3.5	3.7	0.001							
						0.4	313.0	20.0		33.7	33.7	8.1		104.0		7.8			2.7			3.9		<0.001							
					M	0.2	276.0	19.8	19.8	33.7	33.7	8.1	103.1	7.7	7.7	2.0	1.9	4.6	4.4	4.4											
						0.2	296.0	19.8	19.8	33.7	33.7	8.1	103.1	7.7	7.7	1.9	1.9	4.1	4.4	4.4											
					B	0.2	279.0	19.7	19.7	33.7	33.7	8.1	101.0	7.6	7.6	10.6	10.6	5.2	5.0	5.0											
						0.2	287.0	19.7	19.7	33.7	33.7	8.1	101.1	7.6	7.6	10.6	10.6	4.8	5.0	5.0											
IM8	Fine	Rough	13:44	13.0	S	0.4	306.0	19.8	19.8	33.7	33.7	8.1	8.1	106.8	106.8	8.0	8.0	7.9	2.0	2.0	5.0	3.0	3.0	0.001							
						0.5	311.0	19.8		33.7	33.7	8.1		106.8		8.0			2.0			2.0		2.9	3.0	3.0					
					M	0.3	295.0	19.8	19.8	33.7	33.7	8.1	105.8	7.9	7.9	2.0	2.0	3.7	3.9	4.5											
						0.3	299.0	19.8	19.8	33.7	33.7	8.1	105.8	7.9	7.9	2.0	2.0	4.1	3.9	4.5											
					B	0.2	341.0	19.7	19.7	33.7	33.7	8.1	102.6	7.7	7.7	10.8	11.0	6.9	6.7	6.7											
						0.3	342.0	19.7	19.7	33.7	33.7	8.1	102.6	7.7	7.7	11.2	11.0	6.5	6.7	6.7											
IM9	Fine	Rough	14:03	14.9	S	0.5	315.0	19.8	19.8	33.7	33.7	8.1	8.1	105.3	105.3	7.9	7.9	7.8	2.2	2.2	3.6	3.7	3.6	0.001							
						0.5	329.0	19.8		33.7	33.7	8.1		105.2		7.9			2.2			3.4		<0.001							
					M	0.3	298.0	19.7	19.7	33.7	33.7	8.2	103.7	7.8	7.8	2.3	2.3	5.1	5.1	5.4											
						0.3	327.0	19.7	19.7	33.7	33.7	8.2	103.7	7.8	7.8	2.3	2.3	5.0	5.1	5.4											
					B	0.2	315.0	19.6	19.6	33.7	33.7	8.2	102.3	7.7	7.7	6.4	6.2	7.4	7.5	7.5											
						0.3	341.0	19.6	19.6	33.7	33.7	8.2	102.2	7.7	7.7	6.1	6.2	7.5	7.5	7.5											
IM10	Fine	Rough	14:45	10.4	S	0.7	234.0	20.4	20.4	33.7	33.7	8.1	8.1	104.8	104.7	7.8	7.8	7.7	5.4	5.4	8.7	8.1	8.5	0.001							
						0.7	243.0	20.4		33.7	33.7	8.1		104.6		7.7			5.5			5.4		8.8	8.5						
					M	0.6	234.0	20.3	20.3	33.7	33.7	8.1	102.7	7.6	7.6	7.6	7.6	9.2	9.1	10.4											
						0.6	235.0	20.3	20.3	33.7	33.7	8.1	102.5	7.6	7.6	7.6	7.6	9.0	9.1	10.4											
					B	0.7	242.0	20.3	20.3	33.7	33.7	8.1	101.6	7.5	7.5	13.0	12.9	13.6	13.7	13.7											
						0.7	245.0	20.3	20.3	33.7	33.7	8.1	101.7	7.5	7.5	12.9	12.9	13.8	13.7	13.7											
IM11A	Fine	Rough	14:58	5.6	S	0.8	331.0	20.4	20.4	33.7	33.7	8.1	8.1	102.8	102.8	7.6	7.6	7.6	8.9	9.0	10.9	20.5	20.4	0.001							
						0.8	335.0	20.4		33.7	33.7	8.1		102.8		7.6			9.1			20.3		20.4							
					B	0.6	347.0	20.3	20.3	33.7	33.7	8.1	101.1	7.5	7.5	13.0	12.8	24.2	24.1	22.2											
						0.6	348.0	20.3	20.3	33.7	33.7	8.1	100.8	7.5	7.5	12.6	12.8	23.9	24.1	22.2											
					IM12	Fine	Moderate	15:05	15.0	S	0.8	341.0	20.3	20.3	33.7	33.7	8.1	8.1	103.4	103.4		7.7		7.7	7.6	5.8	5.9	9.2	8.3	8.1	0.001
											0.8	346.0	20.3		33.7	33.7	8.1		103.4			7.7				5.9			7.8		8.1
M	0.7	353.0	20.2	20.2						33.7	33.7	8.1	102.5	7.6	7.6	8.1	8.4	12.1	11.9	11.6											
	0.7	27.0	20.2	20.2						33.7	33.7	8.1	102.5	7.6	7.6	8.7	8.4	11.7	11.9	11.6											
B	0.6	358.0	20.2	20.2						33.7	33.7	8.1	101.8	7.6	7.6	13.8	13.4	14.7	14.9	14.9											
	0.6	6.0	20.2	20.2						33.7	33.7	8.1	101.7	7.6	7.6	13.1	13.4	15.1	14.9	14.9											
IM13	Fine	Moderate	15:26	17.8	S	0.4	42.0	20.1	20.1	32.5	32.6	8.1	8.1	101.3	101.2	7.6	7.6	7.5	2.5	2.5	8.4	3.0	3.1	0.001							
						0.4	44.0	20.1		20.1	32.7	32.6		8.1		101.1			7.6			7.6		2.5	2.5	3.2	3.1				
					M	0.5	38.0	20.0	20.0	33.5	33.5	8.1	100.0	7.5	7.5	8.6	11.3	5.2	5.2	7.9											
						0.6	38.0	20.0	20.0	33.5	33.5	8.1	100.0	7.5	7.5	14.0	11.3	5.1	5.2	7.9											
					B	0.4	27.0	20.1	20.1	33.5	33.5	8.1	99.7	7.4	7.4	11.3	11.3	15.1	15.4	15.4											
						0.4	27.0	20.1	20.1	33.5	33.5	8.1	99.7	7.4	7.4	11.3	11.3	15.6	15.4	15.4											
IM14	Fine	Moderate	15:35	11.2	S	0.2	10.0	20.4	20.4	31.4	31.5	8.1	8.1	104.2	104.0	7.8	7.8	7.7	2.0	2.0	9.9	37.5	37.6	0.001							
						0.3	10.0	20.4		20.4	31.7	31.5		8.1		103.8			7.8			2.0		2.0	37.6	37.6					
					M	0.4	12.0	20.3	20.3	33.0	33.0	8.1	102.6	7.6	7.6	6.7	6.7	11.8	11.7	18.1											
						0.4	12.0	20.3	20.3	33.0	33.0	8.1	102.6	7.6	7.6	6.7	6.7	11.6	11.7	18.1											
					B	0.3	359.0	20.4	20.4	33.2	33.2	8.1	102.2	7.6	7.6	21.1	21.1	5.0	5.1	5.1											
						0.3	25.0	20.4	20.4	33.2	33.2	8.1	102.2	7.6	7.6	21.2	21.1	5.1	5.1	5.1											

Water Quality Monitoring Data Log Sheet

Date: 2020/01/06

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM15	Fine	Moderate	16:42	6.8	S	0.5	5.0	20.2	20.2	31.2	31.2	8.1	8.1	100.9	100.9	7.6	7.6	7.6	6.4	6.4	7.0	9.2	9.1	10.8
						0.6	5.0	20.2		31.2	31.2	8.1		100.9		7.6			6.5			8.9		
						0.5	6.0	20.2		31.2	31.2	8.1		100.8		7.6			6.9			11.3		
					M	0.5	6.0	20.2	20.2	31.2	31.2	8.1	100.8	7.6	7.6	6.8	6.8	11.0	11.2					
						B	0.5	10.0	20.2	20.2	31.2	31.2	8.1	100.7	7.6	7.6	7.7	7.7	12.2	12.3				
							0.6	10.0	20.2	20.2	31.2	31.2	8.1	100.7	7.6	7.6	7.7	7.7	12.3					
IM16A	Fine	Moderate	16:13	7.2	S	0.4	352.0	20.9	20.9	28.7	28.7	8.1	8.1	101.1	101.1	7.6	7.6	7.5	1.4	1.4	2.9	2.5	2.6	4.0
						0.4	358.0	20.9		28.7	28.7	8.1		101.0		7.6			1.4			2.6		
					M	0.4	3.0	20.7	20.7	29.4	29.4	8.1	96.6	7.3	7.3	3.0	3.0	3.2	3.1					
						0.5	3.0	20.7	20.7	29.4	29.4	8.1	96.6	7.3	7.3	3.0	3.0	3.0						
					B	0.4	7.0	20.6	20.6	29.4	29.4	8.1	96.1	7.3	7.3	4.5	4.5	6.1	6.3					
						0.4	7.0	20.6	20.6	29.4	29.4	8.1	96.1	7.3	7.3	4.5	4.5	6.4						
IM17	Fine	Moderate	15:50	5.5	S	0.4	334.0	20.9	20.9	26.8	26.8	8.1	8.1	98.5	98.4	7.5	7.5	7.5	2.5	2.5	6.7	5.4	5.5	8.7
						0.4	343.0	20.9		26.8	26.8	8.1		98.3		7.5			2.5			5.6		
					B	0.3	338.0	20.4	20.4	28.4	28.4	8.1	90.6	6.9	6.9	11.1	11.0	12.0	11.9					
						0.3	353.0	20.4	20.4	28.4	28.4	8.1	90.7	6.9	6.9	11.0	11.0	11.8						
IM18	Fine	Moderate	13:53	18.0	S	0.1	276.0	20.8	20.8	26.0	26.0	8.1	8.1	97.2	97.2	7.5	7.5	7.0	1.8	1.8	3.1	3.6	3.7	3.5
						0.1	288.0	20.8		25.9	26.0	8.1		97.1		7.5			1.8			3.8		
					M	0.1	324.0	20.3	20.3	29.6	29.6	8.1	87.2	6.6	6.6	1.7	1.8	3.6	3.4					
						0.1	353.0	20.3	20.3	29.6	29.6	8.1	87.2	6.6	6.6	1.7	1.8	3.2						
					B	0.3	344.0	20.3	20.3	30.7	30.7	8.1	83.7	6.3	6.3	5.6	5.7	3.2	3.4					
						0.3	0.0	20.3	20.3	30.7	30.7	8.1	83.8	6.3	6.3	5.8	5.7	3.6						
IM19	Fine	Moderate	14:06	17.4	S	0.1	87.0	20.8	20.8	26.1	26.1	8.1	8.1	97.2	97.2	7.5	7.5	7.1	1.6	1.6	1.9	3.6	3.5	4.5
						0.1	87.0	20.8		26.1	26.1	8.1		97.1		7.5			1.7			3.3		
					M	0.2	315.0	20.8	20.8	29.5	29.5	8.1	89.2	6.7	6.7	1.9	1.9	4.9	4.7					
						0.2	319.0	20.8	20.8	29.5	29.5	8.1	89.2	6.7	6.7	1.9	1.9	4.5						
					B	0.3	346.0	20.4	20.4	30.7	30.7	8.1	85.9	6.5	6.5	2.2	2.2	5.5	5.4					
						0.3	349.0	20.4	20.4	30.7	30.7	8.1	86.0	6.5	6.5	2.2	2.2	5.2						
IM20A	Fine	Moderate	14:35	4.3	S	0.5	50.0	21.4	21.4	27.5	27.6	8.0	8.0	97.4	97.2	7.3	7.3	4.0	4.1	4.1	4.0	5.1	5.2	7.2
						0.5	51.0	21.4		27.6	27.6	8.0		97.0		7.3			4.2			5.3		
					B	0.3	61.0	21.1	21.1	28.8	28.8	8.0	93.1	7.0	7.0	4.0	4.0	8.8	9.1					
						0.4	66.0	21.1	21.1	28.8	28.8	8.0	93.1	7.0	7.0	4.0	4.0	9.4						
IM21A	Fine	Moderate	14:25	4.9	S	0.3	34.0	22.6	22.6	27.2	27.2	8.0	8.0	102.6	102.6	7.6	7.6	2.8	2.6	2.6	2.8	5.7	5.4	7.0
						0.3	34.0	22.6		27.2	27.2	8.0		102.6		7.6			2.6			5.1		
					B	0.2	25.0	22.4	22.4	27.3	27.3	8.0	101.8	7.5	7.5	3.1	3.1	8.7	8.6					
						0.2	27.0	22.4	22.4	27.3	27.3	8.0	101.8	7.5	7.5	3.1	3.1	8.4						
IM22A	Fine	Moderate	14:20	5.1	S	0.3	41.0	21.3	21.3	26.5	26.5	8.0	8.0	101.3	101.3	7.7	7.7	2.2	1.8	1.8	2.2	4.2	4.1	3.4
						0.3	44.0	21.3		26.5	26.5	8.0		101.3		7.7			1.8			4.0		
					B	0.3	39.0	21.1	21.1	27.0	27.0	8.0	99.5	7.6	7.6	2.6	2.6	2.5	2.7					
						0.3	41.0	21.1	21.1	27.0	27.0	8.0	99.5	7.6	7.6	2.6	2.6	2.8						

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
E1	Fine	Moderate	01:02	8.2	S	1.5	157.3	20.8	20.8	32.0	32.0	8.0	8.0	93.4	93.5	6.9	6.9	6.9	5.9	5.7	7.4	10.5	10.6	11.7
						1.3	198.0	20.8		32.0		8.0		93.5		6.9			5.5					
						0.8	205.0	20.8		32.0		8.0		93.1		6.9			6.2					
					M	0.8	232.8	20.8	32.0	8.0	93.2	6.9	6.3	6.3	11.2									
						0.4	231.4	20.8	32.0	8.0	93.6	6.9	9.9	10.2	13.6									
						0.9	218.2	20.8	32.0	8.0	92.8	6.9	10.4	13.2										
B	0.1	136.1	21.0	32.3	8.0	104.8	7.7	2.6	2.5	4.3														
	0.1	136.1	21.0	32.3	8.0	104.8	7.7	2.4	2.9	4.5														
	0.6	3.1	21.0	32.3	8.0	104.5	7.7	2.8	2.9	5.6														
E2	Fine	Moderate	21:29	9.3	S	0.6	140.2	21.0	21.0	32.3	32.3	8.0	8.0	104.6	104.6	7.7	7.7	7.7	2.8	2.9	2.8	5.9	5.5	5.3
						0.5	10.2	21.0		32.3		8.0		104.6		7.7			3.0					
						0.5	349.8	21.0		32.3		8.0		104.5		7.7			2.9			5.8		
					M	0.3	143.0	20.3	33.5	8.2	108.3	8.0	2.5	2.5	4.7									
						0.3	145.0	20.3	33.5	8.2	108.3	8.0	2.5	2.5	4.3									
						0.3	141.0	20.2	33.5	8.2	108.6	8.1	2.5	2.5	6.3									
B	0.3	151.0	20.2	33.5	8.2	108.7	8.1	2.5	2.5	5.8														
	0.2	112.0	20.0	33.5	8.2	106.1	7.9	3.4	3.4	6.6														
	0.2	117.0	20.0	33.5	8.2	105.9	7.9	3.3	3.4	7.4														
E3	Fine	Rough	22:00	16.9	S	0.3	214.0	20.5	20.5	33.1	33.2	8.1	8.1	103.7	103.7	7.7	7.7	7.7	5.1	5.0	5.4	7.6	7.7	8.4
						0.3	217.0	20.5		33.2		8.1		103.7		7.7			5.1					
						0.1	191.0	20.5		33.5		8.1		103.6		7.7			5.4					
					M	0.1	192.0	20.5	33.5	8.1	103.5	7.7	5.5	5.4	8.7									
						0.2	179.0	20.5	33.5	8.1	102.9	7.6	5.7	5.8	9.1									
						0.2	179.0	20.5	33.5	8.1	102.8	7.6	5.9	5.8	8.8									
B	0.1	277.0	20.5	29.7	8.1	100.9	7.6	3.7	3.7	7.6														
	0.1	302.0	20.5	29.6	8.1	100.9	7.6	3.7	3.7	7.4														
	0.1	44.0	20.2	31.2	8.2	101.6	7.7	5.7	5.6	8.3														
E4	Fine	Moderate	20:42	12.7	S	0.1	191.0	20.5	20.5	33.5	33.5	8.1	8.1	103.6	103.6	7.7	7.7	7.7	5.4	5.4	5.4	8.7	8.6	8.5
						0.1	192.0	20.5		33.5		8.1		103.5		7.7			5.5					
						0.2	179.0	20.5		33.5		8.1		102.9		7.6			5.7					
					M	0.1	102.0	20.2	31.6	8.2	100.6	7.6	9.4	9.5	9.5									
						0.1	106.0	20.2	31.6	8.2	100.6	7.6	9.6	9.9	9.9									
						0.3	149.0	20.5	29.6	8.1	99.3	7.5	7.5	7.5	7.9									
E5	Fine	Moderate	21:07	7.0	S	0.3	153.0	20.4	20.4	29.6	29.6	8.1	8.1	99.2	99.3	7.5	7.5	7.5	8.0	7.8	9.1	8.2	8.1	8.4
						0.2	130.0	20.4		29.9		8.1		98.9		7.5			10.5					
						0.3	138.0	20.4		29.9		8.1		98.9		7.5			10.3					
					B	0.4	137.0	20.7	28.9	8.0	96.0	7.3	4.5	4.6	5.2									
						0.4	147.0	20.7	28.9	8.0	95.6	7.2	4.6	4.6	5.5									
						0.3	160.0	20.6	29.8	8.0	92.5	7.0	5.0	5.0	7.8									
E6	Fine	Moderate	21:55	5.7	S	0.3	171.0	20.6	20.6	29.9	29.9	8.0	8.0	92.3	92.4	7.0	7.0	7.0	5.0	5.0	4.8	7.5	7.7	6.5
						0.3	136.0	20.4		29.9		8.1		98.9		7.5			8.7					
						0.4	137.0	20.7		28.9		8.0		96.0		7.3			4.5					
					M	0.3	160.0	20.6	29.8	8.0	92.5	7.0	5.0	5.0	7.8									
						0.3	171.0	20.6	29.9	8.0	92.3	7.0	5.0	5.0	7.5									
						0.7	320.5	20.3	32.5	8.1	105.1	7.9	0.9	0.9	3.8									
E7A	Fine	Moderate	22:21	5.6	S	1.1	302.6	20.3	20.3	32.5	32.5	8.1	8.1	105.2	105.2	7.9	7.9	7.8	0.9	0.9	2.6	3.5	3.7	12.4
						0.5	217.0	20.3		32.5		8.1		104.3		7.8			1.0					
						0.6	158.9	20.3		32.5		8.1		104.3		7.8			1.0					
					B	0.9	334.8	20.1	32.5	8.1	100.0	7.5	5.6	5.9	42.8									
						0.7	283.9	20.1	32.5	8.1	99.9	7.5	6.1	5.9	15.3									
						0.2	319.5	20.2	32.4	8.1	105.9	7.9	0.6	0.6	4.5									
F1	Fine	Moderate	00:03	20.3	S	0.2	319.5	20.2	20.2	32.4	32.4	8.1	8.1	106.0	106.0	7.9	7.9	7.9	0.6	0.6	1.8	4.8	4.7	6.0
						1.0	170.4	20.2		32.4		8.1		104.6		7.8			0.7					
						0.2	192.6	20.2		32.4		8.1		105.1		7.9			0.6					
					M	0.9	149.8	20.1	32.5	8.1	99.6	7.5	4.0	4.3	8.3									
						0.9	149.8	20.1	32.5	8.1	99.6	7.5	4.0	4.3	8.3									
						0.9	270.0	20.1	32.5	8.1	99.1	7.4	4.5	4.3	8.7									

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*				
IM6	Fine	Moderate	22:40	16.1	S	1.1	273.9	20.2	20.2	32.3	32.3	8.1	8.1	105.7	105.8	7.9	7.9	7.9	1.2	1.3	3.3	3.5	<0.001						
						1.1	273.9	20.2		32.3		8.1		105.8		7.9			1.3		3.6								
						0.6	174.9	20.2		32.3		8.1		105.1		7.9			1.2		4.5								
					M	0.2	295.9	20.2	32.3	8.1	105.1	7.9	1.2	4.8	4.7	<0.001													
						B	0.3	24.6	20.2	32.3	32.3	8.1	104.3	7.8	7.8	1.7	1.7	6.6	6.5	<0.001									
							0.4	60.6	20.2	32.3	8.1	104.3	7.8	7.8	1.6	6.3	6.5	<0.001											
IM7	Fine	Rough	23:35	14.9	S	0.2	96.0	19.9	19.9	33.5	33.5	8.2	8.2	107.2	107.2	8.0	8.0	8.0	1.4	1.5	4.0	4.0	0.008						
						0.2	97.0	19.9		33.5		8.2		107.2		8.0			1.5		4.0								
						0.3	115.0	19.9		33.5		8.2		106.9		8.0			1.4		3.4								
					M	0.3	117.0	19.9	33.5	8.2	106.9	8.0	1.3	3.8	3.6	<0.001													
						0.2	80.0	19.9	33.5	8.2	106.1	7.9	2.7	2.3	2.7	<0.001													
						B	0.3	81.0	19.9	33.5	8.2	106.0	7.9	2.8	3.1	2.7	<0.001												
IM8	Fine	Rough	22:56	13.0	S		0.1	156.0	19.8	19.8	33.5	33.5	8.2	8.2	107.2	107.2	8.0	8.0	8.0	1.3	1.3	2.9	2.8	<0.001					
						0.1	165.0	19.8	33.5		8.2		107.2		8.0		1.3			2.6									
						0.2	172.0	19.8	33.5		8.2		106.8		8.0		1.1			5.8									
					M	0.2	187.0	19.8	33.5	8.2	106.8	8.0	1.1	5.5	5.7	<0.001													
						B	0.2	296.0	19.8	33.5	8.2	106.3	8.0	1.5	7.8	8.0	<0.001												
							0.2	308.0	19.8	33.5	8.2	106.2	8.0	1.5	8.1	8.0	<0.001												
IM9	Fine	Rough	22:30	15.4	S	0.4	125.0	20.1	20.1	33.5	33.5	8.2	8.2	107.5	107.5	8.0	8.0	8.0	1.7	1.7	4.4	4.5	<0.001						
						0.4	130.0	20.1		33.5		8.2		107.5		8.0			1.7		4.5								
						0.4	124.0	20.1		33.5		8.2		107.2		8.0			1.8		4.0								
					M	0.4	135.0	20.1	33.5	8.2	107.2	8.0	1.8	4.3	4.2	<0.001													
						B	0.4	121.0	20.1	33.5	8.2	106.1	7.9	7.4	3.7	3.6	<0.001												
							0.4	123.0	20.1	33.5	8.2	106.0	7.9	7.9	6.6	3.4	3.6	<0.001											
IM10	Fine	Moderate	21:44	8.1	S	0.1	128.0	20.7	20.7	33.5	33.5	8.1	8.1	107.6	107.6	7.9	7.9	7.9	4.1	4.1	7.7	7.8	<0.001						
						0.1	133.0	20.7		33.5		8.1		107.5		7.9			4.1		7.9								
						0.2	94.0	20.7		33.5		8.1		107.3		7.9			4.1		6.9								
					M	0.2	97.0	20.7	33.5	8.1	107.3	7.9	4.1	7.2	7.1	<0.001													
						B	0.2	87.0	20.7	33.5	8.1	106.1	7.8	4.3	6.8	6.7	<0.001												
							0.2	90.0	20.7	33.5	8.1	105.9	7.8	4.3	6.5	6.7	<0.001												
IM11A	Fine	Moderate	21:32	5.8	S	0.6	183.0	20.6	20.6	33.5	33.5	8.1	8.1	105.8	105.8	7.8	7.8	7.8	5.3	5.4	8.4	8.3	<0.001						
						0.7	194.0	20.6		33.5		8.1		105.8		7.8			5.4		8.1								
						0.4	162.0	20.6		33.5		8.1		105.5		7.8			5.5		9.7								
					B	0.4	176.0	20.6	33.5	8.1	105.4	7.8	5.6	9.5	9.6	<0.001													
						S	0.5	198.0	20.7	33.5	8.2	106.5	7.9	4.6	7.1	7.0	<0.001												
							0.5	206.0	20.7	33.5	8.2	106.5	7.9	4.6	6.9	7.0	<0.001												
IM12	Fine	Moderate	21:22	15.3	M	0.4	176.0	20.6	20.6	33.5	33.5	8.2	8.2	106.6	106.7	7.9	7.9	7.9	4.1	4.1	8.1	8.0	<0.001						
						0.4	191.0	20.6		33.5		8.2		106.7		7.9			4.2		7.9								
						0.3	174.0	20.4		33.5		8.2		106.0		7.8			4.9		8.3		8.2	<0.001					
					B	0.3	189.0	20.4	33.5	8.2	105.9	7.8	5.0	8.1	8.2	<0.001													
						IM13	Fine	Moderate	21:01	17.2	S	0.1	224.0	20.7	20.7	33.5	33.5	8.1	8.1	106.9	106.9	7.9	7.9	7.9	4.4	4.5	6.9	7.1	<0.001
												0.1	226.0	20.7		33.5		8.1		106.9		7.9			4.5		7.3		
0.1	215.0	20.7	33.5	8.1	106.7							7.9	5.0	8.5															
M	0.1	227.0	20.7	33.5	8.1						106.6	7.9	5.0	8.8	8.7	<0.001													
	B	0.1	167.0	20.7	33.5						8.1	105.9	7.8	5.1	10.0	9.9	<0.001												
		0.1	183.0	20.7	33.5						8.1	105.8	7.8	5.2	9.7	9.9	<0.001												
IM14	Fine	Moderate	20:51	12.1	S	0.4	203.0	20.4	20.4	32.8	32.8	8.1	8.1	103.7	103.8	7.7	7.7	7.7	5.0	5.1	7.7	7.9	<0.001						
						0.4	212.0	20.4		32.9		8.1		103.8		7.7			5.1		8.1								
						0.2	176.0	20.6		33.5		8.1		104.4		7.7			5.1		8.0								
					M	0.2	187.0	20.6	33.5	8.1	104.3	7.7	5.1	8.3	8.2	<0.001													
						B	0.3	180.0	20.4	33.5	8.1	102.6	7.6	5.6	9.0	9.3	<0.001												
							0.3	187.0	20.4	33.5	8.1	102.6	7.6	5.5	9.6	9.3	<0.001												

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		Value	Average	Value
IM15	Fine	Moderate	20:55	8.6	S	0.1	282.0	20.3	20.3	31.1	31.1	8.1	8.1	102.2	102.2	7.7	7.7	7.7	7.7	4.3	4.3	4.2	5.9		
						0.1	309.0	20.3		31.1	31.1	8.1		102.2		7.7		4.3		4.6					
					M	0.1	96.0	20.2	20.2	31.5	31.5	8.1	8.1	101.4	101.4	7.6	7.6	7.6	7.6	5.7	5.7	5.1		5.1	5.0
						0.1	99.0	20.2		31.5	31.5	8.1		101.3		7.6		5.8		5.1					
					B	0.1	115.0	20.1	20.1	31.7	31.7	8.1	8.1	100.8	100.8	7.6	7.6	7.6	7.6	7.0	7.0	7.8		8.1	7.8
						0.1	116.0	20.1		31.7	31.7	8.1		100.8		7.6		7.0		8.4					
IM16A	Fine	Moderate	21:18	6.8	S	0.1	54.0	20.1	20.1	31.2	31.2	8.2	8.2	102.3	102.3	7.7	7.7	7.7	7.7	5.4	5.4	7.3	8.4		
						0.1	56.0	20.1		31.2	31.2	8.2		102.3		7.7		5.3		7.1					
					M	0.1	62.0	20.2	20.2	31.3	31.3	8.1	8.1	101.5	101.5	7.7	7.7	7.7	7.7	6.8	6.9	8.5		8.4	8.5
						0.1	62.0	20.2		31.3	31.3	8.1		101.5		7.7		6.8		8.3					
					B	0.1	90.0	20.2	20.2	31.3	31.3	8.1	8.1	101.6	101.6	7.7	7.7	7.7	7.7	8.1	8.4	9.2		9.5	9.2
						0.1	94.0	20.2		31.3	31.3	8.1		101.6		7.7		8.7		9.7					
IM17	Fine	Moderate	21:34	7.1	S	0.1	127.0	20.4	20.4	30.6	30.6	8.1	8.1	101.1	101.1	7.6	7.6	7.6	7.6	6.7	6.8	8.1	8.9		
						0.1	136.0	20.4		30.6	30.6	8.1		101.0		7.6		6.8		8.5					
					M	0.2	96.0	20.3	20.3	30.8	30.8	8.1	8.1	100.7	100.7	7.6	7.6	7.6	7.6	8.0	8.1	8.8		8.7	8.6
						0.2	103.0	20.3		30.9	30.9	8.1		100.7		7.6		8.2		8.6					
					B	0.1	79.0	20.3	20.3	31.0	31.0	8.1	8.1	100.7	100.7	7.6	7.6	7.6	7.6	8.1	8.0	9.7		9.6	9.7
						0.1	80.0	20.3		31.0	31.0	8.1		100.7		7.6		7.9		9.4					
IM18	Fine	Moderate	23:41	17.2	S	0.6	155.0	20.8	20.8	28.3	28.3	8.1	8.1	100.0	100.0	7.6	7.6	7.6	7.6	3.3	3.3	4.8	5.1		
						0.7	163.0	20.8		28.3	28.3	8.1		100.0		7.6		3.3		5.3					
					M	0.5	163.0	20.8	20.8	29.7	29.7	8.0	8.0	94.4	94.4	7.1	7.1	7.1	7.1	5.3	5.3	5.4		5.2	5.4
						0.5	169.0	20.8		29.7	29.7	8.0		94.4		7.1		4.9		5.2					
					B	0.4	159.0	20.7	20.7	29.9	29.9	8.0	8.0	93.4	93.5	7.0	7.0	7.0	7.0	28.6	26.3	4.7		5.1	5.4
						0.4	163.0	20.7		29.9	29.9	8.0		93.5		7.0		23.9		5.4					
IM19	Fine	Moderate	23:29	18.3	S	0.8	188.0	20.9	20.9	28.9	28.9	8.0	8.0	95.8	95.9	7.2	7.2	7.2	7.2	3.9	3.9	6.3	4.6		
						0.9	201.0	20.9		28.9	28.9	8.0		95.9		7.2		3.8		5.7					
					M	0.8	166.0	20.9	20.9	29.5	29.6	8.0	8.0	94.5	94.3	7.1	7.1	7.1	7.1	2.4	2.7	4.0		3.8	3.6
						0.8	181.0	20.8		29.6	29.6	8.0		94.1		7.1		2.9		3.6					
					B	0.5	151.0	20.7	20.7	30.3	30.3	8.0	8.0	93.6	93.9	7.0	7.0	7.0	7.0	5.3	5.1	4.1		3.9	3.6
						0.5	161.0	20.7		30.2	30.2	8.0		93.6		7.1		4.9		3.6					
S	0.3	198.0	20.8	20.8	28.3	28.3	8.0	8.0	96.3	96.4	7.3	7.3	7.3	7.3	2.7	2.7	5.8	5.7	5.6						
	0.3	199.0	20.8		28.3	28.3	8.0		96.4		7.3		2.7		5.6										
B	0.2	167.0	20.7	20.7	29.2	29.2	8.0	8.0	96.5	96.5	7.3	7.3	7.3	7.3	2.1	2.1	4.7	4.5	4.2						
	0.2	170.0	20.7		29.2	29.2	8.0		96.5		7.3		2.1		4.2										
IM21A	Fine	Moderate	23:10	5.2	S	0.4	216.0	21.1	21.1	28.8	28.8	8.0	8.0	93.7	93.8	7.0	7.0	7.0	7.0	11.8	11.8	12.2	13.2		
						0.4	234.0	21.1		28.8	28.8	8.0		93.8		7.1		11.8		11.8					
					B	0.3	201.0	21.0	21.0	29.2	29.2	8.0	8.0	93.8	93.8	7.1	7.1	7.1	7.1	13.8	14.0	14.1		14.3	14.5
						0.3	213.0	21.0		29.2	29.2	8.0		93.8		7.1		14.2		14.5					
IM22A	Fine	Moderate	23:18	5.8	S	0.5	224.0	21.4	21.4	29.2	29.2	8.0	8.0	95.4	95.4	7.1	7.1	7.1	7.1	11.8	11.8	16.3	17.2		
						0.5	225.0	21.3		29.2	29.2	8.0		95.4		7.1		11.8		16.0					
					B	0.4	207.0	21.2	21.2	29.2	29.2	8.0	8.0	96.6	96.8	7.2	7.2	7.2	7.2	12.3	12.3	18.3		18.2	18.0
						0.5	222.0	21.2		29.2	29.2	8.0		97.0		7.3		12.3		18.0					

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
E1	Fine	Calm	13:32	8.2	S	1.0	9.2	21.3	21.3	31.9	31.9	7.9	7.9	90.5	90.6	6.7	6.7	6.6	1.5	1.6	2.9	3.2	3.1	5.2
						1.3	305.3	21.3		31.9	31.9	7.9		90.7		6.7			1.6					
						0.3	200.4	20.9		31.9	31.9	7.9		88.8		6.6			2.2					
					M	0.8	67.2	20.9	31.9	31.9	7.9	88.9	6.6	1.9	2.1	6.0								
						B	0.7	231.1	20.8	20.8	32.0	32.0	7.9	7.9	88.9	6.6	6.6	5.3						
							0.3	78.5	20.8	32.0	32.0	7.9	88.4	6.6	5.1	5.2	6.3							
E2	Fine	Calm	17:01	9.1	S	0.4	205.1	21.2	21.2	32.3	32.3	8.2	8.2	103.1	103.3	7.6	7.6	7.6	3.2	3.1	3.4	4.8	4.7	<0.001
						0.4	205.1	21.2		32.3	32.3	8.2		103.5		7.6			2.9			4.6		
						0.1	70.5	21.2		32.3	32.3	8.2		102.2		7.5			3.3			5.7		
					M	0.3	218.4	21.2	32.4	32.4	8.2	102.4	7.5	3.5	5.5									
						B	0.4	48.6	21.2	21.2	32.4	32.4	8.2	8.2	101.5	7.5	7.5	5.2						
							1.1	333.2	21.2	32.4	32.4	8.2	101.5	7.5	3.7	3.8	6.7							
E3	Fine	Rough	16:32	16.8	S	0.9	278.0	20.7	20.7	32.2	32.2	8.2	8.2	111.9	111.9	8.3	8.3	8.1	1.7	1.7	3.5	5.1	5.1	5.4
						1.0	304.0	20.7		32.2	32.2	8.2		111.8		8.3			1.7			5.0		
						0.7	277.0	20.3		33.5	33.5	8.1		105.4		7.8			2.4			4.8		
					M	0.8	301.0	20.3	33.5	33.5	8.1	105.3	7.8	2.7	2.6	4.5								
						B	0.7	289.0	20.1	20.2	33.6	33.6	8.2	8.2	104.3	7.8	7.8	6.4						
							0.8	316.0	20.2	33.6	33.6	8.2	104.4	7.8	6.0	6.2	6.6							
E4	Fine	Moderate	17:42	12.1	S	0.7	8.0	20.3	20.3	33.2	33.2	8.2	8.2	103.9	103.9	7.7	7.7	7.7	5.2	5.7	10.9	8.5	8.6	14.1
						0.7	8.0	20.2		33.2	33.2	8.2		103.8		7.7			6.3			8.7		
						0.6	9.0	20.1		33.4	33.4	8.2		103.1		7.7			13.3			12.4		
					M	0.6	9.0	20.1	20.1	33.4	33.4	8.2	8.2	103.1	7.7	7.7	11.1	12.2						
						B	0.5	15.0	20.0	20.0	33.4	33.4	8.2	8.2	102.8	7.7	7.7	14.7	14.9					
							0.6	15.0	20.0	33.4	33.4	8.2	102.8	7.7	15.1	21.3								
E5	Fine	Moderate	18:11	6.9	S	0.7	12.0	20.7	20.7	30.4	30.4	8.1	8.1	104.6	104.6	7.9	7.9	7.8	12.9	12.9	15.1	24.5	24.2	25.7
						0.7	12.0	20.7		30.4	30.4	8.1		104.6		7.9			12.9			23.8		
						0.7	14.0	20.7		30.4	30.4	8.1		104.3		7.8			12.2			23.9		
					M	0.7	15.0	20.7	20.7	30.4	30.4	8.1	8.1	104.3	7.8	7.8	15.0	13.6						
						B	0.5	17.0	20.7	20.7	30.4	30.4	8.1	8.1	103.8	7.8	7.8	18.8	18.7					
							0.6	18.0	20.7	30.4	30.4	8.1	103.4	7.8	18.6	28.6								
E6	Fine	Moderate	16:57	6.3	S	0.8	336.0	21.0	21.0	28.1	28.1	8.1	8.1	97.0	97.0	7.3	7.3	7.1	1.9	2.0	5.7	5.0	5.4	6.9
						0.8	349.0	21.0		28.1	28.1	8.1		96.9		7.3			2.1			5.7		
						0.6	337.0	20.7		29.9	29.9	8.0		90.4		6.8			5.9			6.2		
					M	0.7	356.0	20.7	20.7	29.9	29.9	8.0	8.0	90.4	6.8	6.8	5.9	5.9						
						B	0.5	338.0	20.7	20.7	30.1	30.1	8.0	8.0	90.8	6.8	6.8	9.0	9.0					
							0.6	353.0	20.7	30.1	30.1	8.0	91.0	6.9	9.1	8.9								
E7A	Fine	Moderate	16:38	5.2	S	0.3	29.0	21.1	21.1	27.9	27.9	8.0	8.0	98.8	98.8	7.5	7.5	7.5	3.1	3.0	8.1	3.3	3.1	5.8
						0.3	30.0	21.1		28.0	28.0	8.0		97.7		7.5			3.0			2.9		
					B	0.2	20.0	20.9	20.9	29.1	29.1	8.0	8.0	93.7	7.1	7.1	13.2	13.1						
						0.2	20.0	20.9	29.1	29.1	8.0	93.8	7.1	13.0	8.5									
F1	Fine	Calm	14:30	20.1	S	0.9	325.7	21.2	21.1	32.3	32.3	8.2	8.2	105.9	106.1	7.8	7.8	7.6	1.3	1.3	2.4	3.0	3.2	5.5
						1.0	318.5	21.1		32.3	32.3	8.2		106.2		7.8			1.2			3.4		
						0.3	74.2	20.0		32.4	32.4	8.2		98.9		7.4			1.2			3.9		
					M	0.3	2.4	20.0	20.0	32.4	32.4	8.2	8.2	100.0	99.5	7.5	7.5	1.1	1.2					
						B	1.8	136.9	20.0	20.0	32.6	32.6	8.2	8.2	95.8	7.2	7.2	4.5	4.8					
							0.4	17.6	20.0	32.6	32.6	8.2	95.1	7.1	5.0	8.9								
F2	Fine	Calm	15:01	19.2	S	1.1	263.5	20.9	20.9	32.4	32.4	8.2	8.2	106.7	107.0	7.9	7.9	7.7	0.8	0.8	2.1	2.1	2.3	4.4
						1.1	263.5	20.9		32.4	32.4	8.2		107.3		7.9			0.8			2.5		
						0.3	231.4	20.2		32.4	32.4	8.2		100.4		7.5			1.0			3.4		
					M	0.4	52.1	20.2	20.2	32.4	32.4	8.2	8.2	101.4	7.6	7.6	0.9	1.0						
						B	0.4	145.0	20.0	20.0	32.6	32.6	8.2	8.2	95.9	7.2	7.2	4.4	4.4					
							0.4	144.3	20.0	32.6	32.6	8.2	95.3	7.2	4.4	7.3								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
F3	Fine	Calm	15:38	17.8	S	1.2	335.2	20.8	20.8	32.3	32.3	8.2	8.2	108.3	108.4	8.0	8.0	7.9	0.9	0.9	1.8	3.5	3.3	4.6	<0.001
						0.4	216.4	20.8		32.3	32.3	8.2		108.4		8.0			0.9			3.1			<0.001
						0.6	342.5	20.4		32.4	32.4	8.3		105.0		7.8			1.1			3.8			<0.001
					M	0.4	245.5	20.4	20.4	32.4	32.4	8.3	105.8	7.9	7.9	1.1	1.1	3.8	3.8	0.010					
						0.8	225.5	20.0	20.0	32.4	32.4	8.2	99.4	7.5	7.5	3.2	3.3	7.0	6.8	0.001					
						0.5	89.4	20.0	20.0	32.4	32.4	8.2	99.0	7.4	7.5	3.3	3.3	6.6	6.8	0.007					
F4	Fine	Calm	16:33	13.2	S	0.8	269.1	21.2	21.2	32.4	32.4	8.2	8.2	108.5	108.6	8.0	8.0	7.9	1.8	1.8	3.3	4.7	4.4	7.3	7.3
						0.3	299.5	21.2		32.4	32.4	8.2		108.7		8.0			1.7			4.1			
						1.4	290.4	21.1		21.1	32.4	32.4		8.2		105.1			7.7			2.8			
					M	0.6	243.3	21.1	21.0	32.4	32.4	8.2	105.8	7.8	2.4	7.3	7.2								
						0.5	284.4	21.0	21.0	32.4	32.4	8.2	103.2	7.6	5.3	10.0	10.2								
						0.6	231.5	21.0	21.0	32.4	32.4	8.2	102.7	7.6	5.6	10.4	10.2								
F5	Cloudy	Moderate	03:40	6.9	S	0.4	32.0	20.6	20.6	30.6	30.6	8.1	8.1	104.7	104.8	7.9	7.9	7.7	4.3	4.3	9.6	12.4	12.6	17.5	17.5
						0.4	32.0	20.6		30.7	30.7	8.1		104.7		7.9			4.3			12.7			
						0.3	35.0	20.2		20.2	31.9	31.9		8.1		100.2			7.5			10.1			
					M	0.3	38.0	20.2	20.2	31.9	31.9	8.1	100.2	7.5	7.5	10.9	10.5	17.0	17.3						
						0.2	34.0	20.2	20.2	32.0	32.0	8.1	100.3	7.5	7.5	16.0	16.0	22.9	22.6						
						0.2	36.0	20.2	20.2	32.0	32.0	8.1	100.7	7.6	7.5	12.0	14.0	22.3	22.6						
F6	Fine	Moderate	15:16	13.6	S	0.4	317.0	21.4	21.4	27.9	27.9	8.0	8.0	99.7	99.7	7.5	7.5	7.3	1.8	1.8	3.8	5.2	4.9	6.0	6.0
						0.4	322.0	21.4		27.9	27.9	8.0		99.7		7.5			1.8			4.6			
						0.2	331.0	20.6		20.6	29.9	29.9		8.0		94.6			7.1			5.8			
					M	0.2	333.0	20.6	20.6	29.9	29.9	8.0	94.6	7.1	7.1	5.7	5.7	6.2	6.0						
						0.2	304.0	20.4	20.4	30.9	30.9	7.9	86.3	6.5	6.5	3.8	3.8	7.4	7.2						
						0.3	310.0	20.4	20.4	30.9	30.9	7.9	86.3	6.5	6.5	3.9	3.8	7.0	7.2						
IM1	Fine	Calm	14:11	9.4	S	0.8	121.8	21.3	21.2	32.3	32.3	8.1	8.1	102.8	102.7	7.6	7.5	7.6	1.9	2.0	2.9	4.3	4.3	5.7	5.7
						0.8	121.8	21.2		32.3	32.3	8.1		102.5		7.5			2.0			4.2			
						0.4	9.6	20.8		20.8	32.3	32.3		8.1		101.8			7.5			2.0			
					M	0.5	25.4	20.8	20.8	32.3	32.3	8.1	102.6	7.6	7.6	1.8	1.9	5.4	5.3						
						0.7	332.1	20.1	20.1	32.5	32.5	8.2	98.7	7.4	7.4	4.8	4.9	7.3	7.6						
						0.2	21.3	20.1	20.1	32.5	32.5	8.2	98.2	7.4	7.4	4.9	4.9	7.9	7.6						
IM2	Fine	Calm	13:47	11.3	S	0.3	200.0	21.2	21.2	32.1	32.1	8.0	8.0	98.1	98.0	7.2	7.2	7.3	2.4	2.4	3.1	4.0	4.1	5.8	5.8
						1.0	117.0	21.2		32.1	32.1	8.0		97.9		7.2			2.3			4.2			
						0.2	209.7	20.7		20.8	32.3	32.3		8.1		98.8			7.3			2.6			
					M	0.2	17.9	20.9	20.9	32.3	32.3	8.0	100.1	7.4	7.4	2.6	2.6	5.3	5.4						
						0.9	327.3	20.3	20.3	32.3	32.3	8.1	96.6	7.2	7.2	4.2	4.3	7.6	7.8						
						0.8	145.4	20.3	20.3	32.3	32.3	8.1	96.3	7.2	7.2	4.4	4.3	8.0	7.8						
IM3	Fine	Calm	17:56	15.3	S	0.7	275.5	20.9	20.9	32.2	32.2	8.2	8.2	103.6	103.6	7.7	7.7	7.6	1.5	1.5	5.0	6.6	6.6	13.3	13.3
						0.7	275.5	20.9		32.2	32.2	8.2		103.6		7.7			1.4			6.5			
						0.7	317.3	20.9		20.9	32.2	32.2		8.2		101.0			7.5			7.5			
					M	0.7	178.5	20.9	20.9	32.2	32.2	8.2	102.1	7.6	7.6	1.5	1.6	19.0	13.0						
						0.3	56.4	20.1	20.1	32.3	32.3	8.2	93.7	7.0	7.0	11.9	11.9	22.6	20.4						
						0.2	196.0	20.2	20.1	32.3	32.3	8.2	93.7	7.0	7.0	12.0	12.0	18.2	20.4						
IM4	Fine	Calm	17:30	17.4	S	1.0	315.4	21.0	21.0	32.2	32.2	8.2	8.2	104.2	104.4	7.7	7.7	7.6	1.3	1.3	2.6	5.1	4.9	6.0	6.0
						1.0	315.4	21.0		32.2	32.2	8.2		104.5		7.7			1.3			4.6			
						1.0	271.5	20.9		20.9	32.2	32.2		8.2		102.5			7.6			1.6			
					M	0.4	220.9	20.9	20.9	32.3	32.3	8.2	102.6	7.6	7.6	1.5	1.6	5.9	5.8						
						0.4	43.1	20.5	20.5	32.4	32.3	8.2	99.9	7.4	7.4	4.9	4.9	7.4	7.3						
						0.4	255.2	20.5	20.5	32.3	32.3	8.2	99.7	7.4	7.4	4.9	4.9	7.1	7.3						
IM5	Fine	Calm	16:05	15.4	S	0.6	248.2	21.1	21.1	32.3	32.3	8.2	8.2	107.6	107.8	7.9	7.9	7.8	1.3	1.3	3.0	3.4	3.2	5.3	5.3
						1.3	219.1	21.1		32.3	32.3	8.2		108.0		8.0			1.3			3.0			
						1.1	343.8	20.6		20.5	32.4	32.4		8.2		101.9			7.6			7.6			
					M	0.2	81.8	20.5	20.5	32.4	32.4	8.2	102.4	7.6	7.6	1.9	2.0	5.0	5.1						
						0.4	323.5	20.2	20.2	32.4	32.4	8.2	97.9	7.3	7.3	5.5	5.8	7.7	7.5						
						0.4	24.5	20.2	20.2	32.4	32.4	8.2	97.3	7.3	7.3	6.0	5.8	7.3	7.5						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*				
IM6	Fine	Calm	15:50	16.3	S	1.1	301.9	20.8	20.8	32.3	32.3	8.2	8.2	108.7	108.7	8.0	8.0	8.0	1.0	1.0	3.3	3.5	<0.001						
						0.5	31.0	20.8		32.3	8.2	108.7		8.0		1.0			3.7										
						0.5	299.0	20.5		32.4	8.3	106.4		7.9		1.1			4.4										
					M	0.2	166.5	20.6	32.3	32.4	8.3	8.3	107.4	106.9	8.0	8.0	1.0	1.1	4.3	4.4	<0.001								
						B	0.4	271.4	20.0	20.0	32.4	32.4	8.3	8.3	101.5	101.1	7.6	7.6	7.6	2.5	2.7	4.9	4.8	<0.001					
							0.7	216.7	20.0	32.4	32.4	8.3	8.3	100.6	100.6	7.6	7.6	7.6	2.9	2.7	4.6	4.8	<0.001						
IM7	Fine	Rough	15:31	14.1	S	0.4	308.0	20.3	20.3	33.6	33.6	8.2	8.2	111.9	111.9	8.3	8.3	8.3	1.0	1.0	4.7	4.4	5.0						
						0.4	330.0	20.3		33.6	33.6	8.2		111.9		8.3			1.0		4.1								
					M	0.3	304.0	20.2	20.2	33.6	33.6	8.1	8.1	109.7	109.7	8.2	8.2	8.2	1.0	1.0	4.9	5.0							
						0.3	319.0	20.2	33.6	33.6	8.1	8.1	109.7	109.7	8.2	8.2	8.2	1.0	1.0	5.1	5.0								
					B	0.3	298.0	19.8	19.8	33.6	33.6	8.2	8.2	105.7	105.7	7.9	7.9	7.9	2.1	2.1	5.4	5.6							
						0.3	318.0	19.8		33.6	33.6	8.2		105.7	7.9	2.1		5.7											
IM8	Fine	Rough	15:47	12.7	S	0.5	272.0	20.2	20.2	33.6	33.6	8.2	8.2	112.5	112.5	8.4	8.4	8.3	0.9	0.9	3.0	2.9	4.1						
						0.5	298.0	20.2		33.6	33.6	8.2		112.5		8.4			0.9		2.7								
					M	0.6	252.0	20.1	20.1	33.6	33.6	8.2	8.2	110.9	110.8	8.3	8.3	8.3	0.8	0.8	3.9	3.6							
						0.7	256.0	20.1		33.6	33.6	8.2		110.7	8.3	0.8		3.3											
					B	0.7	251.0	19.9	19.9	33.6	33.6	8.2	8.2	106.4	106.4	8.0	8.0	8.0	1.6	1.7	5.8	5.9							
						0.7	288.0	19.9		33.6	33.6	8.2		106.4	8.0	1.7		6.0											
IM9	Fine	Rough	16:06	14.9	S	1.0	278.0	20.8	20.8	33.1	33.1	8.2	8.2	116.6	116.6	8.6	8.6	8.4	1.1	1.1	2.1	2.2	2.6						
						1.0	288.0	20.8		33.1	33.1	8.2		116.6		8.6			1.1		2.3								
					M	0.8	273.0	20.3	20.3	33.6	33.6	8.2	8.2	112.0	111.8	8.3	8.3	8.3	1.1	1.1	2.5	2.7							
						0.8	276.0	20.2		33.6	33.6	8.2		111.6	8.3	1.2		2.9											
					B	0.7	273.0	19.8	19.9	33.6	33.6	8.2	8.2	107.3	107.3	8.0	8.0	8.0	4.3	4.2	3.0	3.0							
						0.7	288.0	19.9		33.6	33.6	8.2		107.2	8.0	4.1		3.0											
IM10	Fine	Rough	16:47	8.8	S	1.1	282.0	20.8	20.8	33.5	33.5	8.1	8.1	107.6	107.5	7.9	7.9	7.8	3.8	3.9	6.1	6.3	8.4						
						1.1	290.0	20.8		33.5	33.5	8.1		107.4		7.9			3.9		6.5								
					M	0.9	276.0	20.8	20.8	33.6	33.6	8.1	8.1	106.0	106.0	7.8	7.8	7.8	5.8	5.9	8.8	8.7							
						1.0	298.0	20.8		33.6	33.6	8.1		105.9	7.8	5.9		8.6											
					B	1.1	275.0	20.7	20.7	33.6	33.6	8.1	8.1	105.0	105.0	7.7	7.7	7.7	14.3	14.0	10.1	10.3							
						1.2	285.0	20.7		33.6	33.6	8.1		105.0	7.7	13.8		10.4											
IM11A	Fine	Moderate	16:55	5.8	S	0.8	311.0	21.0	21.0	33.3	33.3	8.1	8.1	109.7	109.6	8.1	8.0	8.0	13.2	13.3	22.0	21.8	30.2						
						0.8	321.0	21.0		33.3	33.3	8.1		109.4		8.0			13.4		21.5								
					B	0.8	311.0	20.8	20.8	33.5	33.5	8.1	8.1	106.8	106.8	7.9	7.9	7.9	44.4	39.0	38.4	38.7							
						0.9	320.0	20.8		33.5	33.5	8.1		106.7	7.9	33.7		39.0											
					IM12	Fine	Moderate	17:06	15.2	S	1.3	307.0	21.1	21.1	33.2	33.2	8.1	8.1	111.6	111.5	8.2	8.2		8.0	5.2	5.3	21.0	21.2	17.9
											1.3	327.0	21.1		33.2	33.2	8.1		111.3		8.2				5.3		21.4		
M	1.2	306.0	20.8	20.8						33.4	33.4	8.1	8.1	106.0	105.9	7.8	7.8	7.8	11.5	11.2	16.2	16.6							
	1.3	332.0	20.7							33.4	33.4	8.1		105.8	7.8	11.0		16.9											
B	0.9	317.0	20.6	20.6						33.5	33.5	8.1	8.1	104.3	104.3	7.7	7.7	7.7	25.8	26.6	16.1	15.9							
	1.0	327.0	20.6							33.5	33.5	8.1		104.2	7.7	27.4		15.7											
IM13	Fine	Moderate	17:24	16.8	S	0.8	354.0	20.3	20.3	33.3	33.3	8.2	8.2	104.3	104.3	7.8	7.8	7.7	4.1	4.0	10.2	10.4	11.1						
						0.9	18.0	20.3		33.3	33.3	8.2		104.2		7.8			4.0		10.5								
					M	0.7	4.0	20.1	20.1	33.4	33.4	8.2	8.2	103.3	103.3	7.7	7.7	7.7	7.7	7.7	7.6	7.7		10.4	10.5				
						0.7	4.0	20.1		33.4	33.4	8.2		103.2	7.7	7.7		10.5											
					B	0.5	5.0	20.0	20.0	33.4	33.4	8.2	8.2	102.3	102.3	7.6	7.6	7.6	15.2	14.7	12.7	12.6							
						0.6	5.0	20.0		33.4	33.4	8.2		102.3	7.6	14.2		12.4											
IM14	Fine	Moderate	17:34	11.4	S	0.6	2.0	20.4	20.4	33.2	33.2	8.2	8.2	103.6	103.6	7.7	7.7	7.7	6.2	6.3	13.0	13.3	16.5						
						0.6	2.0	20.4		33.2	33.2	8.2		103.6		7.7			6.3		13.5								
					M	0.6	7.0	20.3	20.3	33.4	33.4	8.2	8.2	103.1	103.1	7.7	7.7	7.7	11.8	11.5	13.9	14.1							
						0.6	7.0	20.3		33.4	33.4	8.2		103.1	7.7	11.3		14.3											
					B	0.4	11.0	20.2	20.2	33.4	33.4	8.2	8.2	102.8	102.8	7.7	7.7	7.7	18.7	15.6	22.3	22.0							
						0.5	11.0	20.2		33.4	33.4	8.2		102.8	7.7	12.5		21.7											

Water Quality Monitoring Data Log Sheet

Date: 2020/01/08

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
IM15	Fine	Moderate	18:24	7.1	S	0.9	9.0	20.8	20.8	30.0	30.0	8.1	8.1	106.6	106.6	8.0	8.0	7.9	4.3	4.2	9.1	11.6	11.7	14.7	
						0.9	9.0	20.8		30.0	30.0	8.1		106.6		8.0			4.2			11.8			
						0.7	18.0	20.4		30.9	30.9	8.1		102.5		7.7			11.1			14.4			
					M	0.8	18.0	20.4	20.4	30.9	30.9	8.1	8.1	102.5	102.5	7.7	7.7	11.0	11.0	14.2	14.3				
						0.6	21.0	20.3	20.3	31.1	31.1	8.1		101.6		7.7		12.1		17.9					
						0.6	21.0	20.3	20.3	31.1	31.1	8.1		101.6		7.6		12.0		18.1					
B	0.6	352.0	20.7	20.7	29.5	29.5	8.1	8.1	101.2	101.2	7.6	7.6	7.6	7.6	12.1	12.1	15.4	15.5							
	0.7	9.0	20.7	20.7	29.5	29.5	8.1		101.2		7.6		8.8		15.5										
	0.6	7.0	20.6	20.6	29.9	30.0	8.0		100.1		7.6		11.1		16.1										
IM16A	Fine	Moderate	17:55	6.8	M	0.6	7.0	20.6	20.6	30.0	30.0	8.0	8.0	100.0	100.0	7.5	7.5	7.6	11.1	11.1	13.5	16.4	16.3	23.3	
						0.6	7.0	20.6		30.0	30.0	8.0		100.0		7.5			11.2			16.4			
						0.5	5.0	20.5		20.5	30.1	30.1		8.0		99.6			7.5			20.7			38.1
					B	0.6	5.0	20.5	20.5	30.1	30.1	8.0	8.0	99.6	99.6	7.5	7.5	20.4	20.6	38.2		38.2			
						0.7	344.0	21.0	21.0	28.3	28.3	8.0		100.1		7.6		7.4		12.4					
						0.7	350.0	21.0	21.0	28.3	28.3	8.0		100.1		7.6		7.3		12.6					
IM17	Fine	Moderate	17:27	5.6	S	0.5	351.0	21.0	21.0	28.3	28.3	8.0	8.0	99.7	99.7	7.5	7.5	7.5	12.6	11.5	9.4	16.5	16.8	14.6	
						0.5	15.0	21.0		28.3	28.3	8.0		99.7		7.5			10.4			17.0			
						0.5	15.0	21.0		21.0	28.3	28.3		8.0		99.7			7.5			10.4			17.0
					M	0.5	314.0	21.3	21.3	27.1	27.1	8.0	8.0	100.8	100.8	7.6	7.6	2.0	2.1	2.9		3.1			
						0.5	324.0	21.2	21.2	27.2	27.2	8.0		100.4		7.6		2.1		3.3					
						0.5	330.0	20.6	20.6	30.4	30.4	8.0		89.9		6.8		3.5		3.4					
B	0.5	330.0	20.6	20.6	30.4	30.4	8.0	8.0	89.9	89.9	6.8	6.8	3.7	3.7	3.6	3.6									
	0.4	335.0	20.5	20.5	30.7	30.7	8.0		90.3		6.8		4.6		4.8										
	0.4	346.0	20.5	20.5	30.7	30.7	8.0		90.5		6.8		4.9		4.8										
IM18	Fine	Moderate	15:37	16.9	S	0.4	344.0	21.2	21.2	28.8	28.9	8.0	8.0	97.0	96.9	7.3	7.3	7.2	2.0	2.0	5.9	2.7	2.9	3.8	
						0.4	13.0	21.1		21.1	29.0	28.9		8.0		96.8			7.3			1.9			3.0
						0.4	354.0	20.7		20.7	30.0	30.0		8.0		90.6			6.8			3.0			3.6
					M	0.4	6.0	20.7	20.7	30.0	30.0	8.0	8.0	90.4	90.5	6.8	6.8	3.2	3.2	3.9		3.8			
						0.4	357.0	20.6	20.6	30.3	30.3	8.0		90.7		6.8		4.1		4.2					
						0.4	15.0	20.6	20.6	30.3	30.3	8.0		90.9		6.8		4.3		4.2					
IM19	Fine	Moderate	15:50	15.6	S	0.5	57.0	22.1	22.1	28.1	28.1	8.0	8.0	100.4	100.5	7.4	7.4	7.0	2.7	2.7	3.4	4.1	3.9	3.6	
						0.5	61.0	22.1		22.1	28.1	28.1		8.0		100.5			7.4			2.8			3.7
						0.4	65.0	21.3		21.3	28.5	28.5		8.0		97.9			7.4			5.8			5.5
					B	0.4	65.0	21.3	21.3	28.5	28.5	8.0	8.0	98.1	98.0	7.4	7.4	5.8	5.8	5.5		5.5			
						0.5	28.0	22.4	22.4	28.3	28.3	8.0		100.4		7.4		4.0		4.0					
						0.5	28.0	22.4	22.4	28.3	28.3	8.0		100.4		7.4		4.0		4.0					
IM20A	Fine	Moderate	16:19	4.6	S	0.4	46.0	22.7	22.7	28.3	28.3	8.0	8.0	101.1	101.1	7.4	7.4	4.1	4.2	4.2	4.1	8.9	9.0	8.5	
						0.4	49.0	22.7		22.7	28.3	28.3		8.0		101.1			7.4			4.3			9.1
						0.3	58.0	21.4		21.4	27.8	27.8		8.0		100.9			7.6			1.4			5.2
					M	0.3	58.0	21.4	21.4	27.8	27.8	8.0	8.0	100.9	100.9	7.6	7.6	1.5	1.5	4.9		5.1			
						0.1	67.0	21.1	21.1	28.5	28.5	8.0		97.6		7.4		2.8		7.8					
						0.1	72.0	21.1	21.1	28.5	28.5	8.0		97.8		7.4		2.8		7.4					
IM21A	Fine	Moderate	16:10	5.0	S	0.5	28.0	22.4	22.4	28.3	28.3	8.0	8.0	100.4	100.4	7.4	7.4	4.1	4.0	4.0	2.1	8.1	8.0	6.3	
						0.4	46.0	22.7		22.7	28.3	28.3		8.0		101.1			7.4			4.2			8.9
						0.4	49.0	22.7		22.7	28.3	28.3		8.0		101.1			7.4			4.3			9.1
					B	0.3	58.0	21.4	21.4	27.8	27.8	8.0	8.0	100.9	100.9	7.6	7.6	1.4	1.5	5.2		5.1			
						0.3	58.0	21.4	21.4	27.8	27.8	8.0		100.9		7.6		1.5		4.9					
						0.1	67.0	21.1	21.1	28.5	28.5	8.0		97.6		7.4		2.8		7.8					
IM22A	Fine	Moderate	16:04	4.8	B	0.1	72.0	21.1	21.1	28.5	28.5	8.0	8.0	97.8	97.7	7.4	7.4	2.1	2.8	2.8	7.4	7.6			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
E1	Cloudy	Calm	02:30	8.1	S	0.1	209.1	20.5	20.5	31.9	31.9	8.1	8.1	91.6	91.6	6.8	6.8	6.8	6.8	9.4	9.0	16.5	18.9	18.9
						0.1	209.1	20.5		31.9	31.9	8.2		91.6	91.6	6.8		8.6		16.3				
						0.5	120.9	20.5		31.9	31.9	8.1		91.5	91.5	6.8		9.8		18.7				
					M	0.2	120.0	20.5	31.9	31.9	8.1	91.5	91.5	6.8	6.8	9.0	9.4	10.3	18.3	18.5				
						B	0.3	184.5	20.5	31.9	31.9	8.1	91.8	91.7	6.9	6.8	11.7	12.6	21.7	21.9				
							0.3	184.5	20.5	31.9	31.9	8.1	91.5	91.5	6.8	6.8	13.4	12.6	22.1	21.9				
E2	Cloudy	Calm	23:03	9.3	S	0.6	102.1	20.8	20.8	32.1	32.1	8.1	8.1	104.2	104.2	7.7	7.7	7.7	7.7	2.5	2.5	6.5	9.2	9.2
						0.6	102.1	20.8		32.1	32.1	8.1		104.1	104.1	7.7		2.4		6.8				
					M	0.7	34.9	20.8	32.2	32.2	8.1	103.2	103.5	7.7	7.7	3.2	3.0	4.9	7.7	7.8				
						0.4	29.5	20.8	32.2	32.2	8.1	103.8	103.8	7.7	2.7	7.8								
					B	0.2	153.8	20.7	32.2	32.2	8.1	99.2	99.1	7.4	7.4	9.3	9.4	7.4	12.8	13.1				
						0.2	138.0	20.7	32.2	32.2	8.1	98.9	99.1	7.3	7.4	13.4	13.1	13.4	13.1					
E3	Fine	Moderate	00:48	16.8	S	0.9	160.0	20.3	20.3	33.4	33.4	8.2	8.2	102.0	102.0	7.6	7.6	7.6	7.6	3.8	3.8	7.5	8.2	8.2
						1.0	171.0	20.3		33.4	33.4	8.2		102.0	102.0	7.6		3.8		7.1				
					M	0.8	149.0	20.2	33.4	33.4	8.2	101.9	101.9	7.6	7.6	5.3	5.5	19.5	8.2					
						0.9	162.0	20.2	33.4	33.4	8.2	101.8	101.9	7.6	7.6	5.7	5.5	19.5	8.2					
					B	0.6	141.0	20.1	33.5	33.5	8.2	101.3	101.3	7.6	7.6	44.9	49.1	7.6	53.2	9.1				
						0.6	142.0	20.1	33.5	33.5	8.2	101.3	101.3	7.6	7.6	53.2	49.1	7.6	53.2	9.1				
E4	Fine	Moderate	02:39	10.8	S	1.2	227.0	20.4	20.4	32.0	32.0	8.2	8.2	100.8	100.8	7.5	7.5	7.5	7.5	12.6	12.6	21.8	57.3	57.3
						1.3	237.0	20.4		32.0	32.0	8.2		100.7	100.8	7.5		12.6		21.2				
					M	1.1	225.0	20.4	32.1	32.1	8.1	100.4	100.4	7.5	7.5	34.8	35.2	27.5	65.1	65.4				
						1.2	234.0	20.4	32.2	32.1	8.1	100.4	100.4	7.5	7.5	35.7	35.2	27.5	65.6	65.4				
					B	0.9	219.0	20.4	32.2	32.2	8.1	100.3	100.3	7.5	7.5	85.7	84.9	7.5	32.5	34.7				
						1.0	230.0	20.4	32.2	32.2	8.1	100.3	100.3	7.5	7.5	36.9	34.7	7.5	36.9	34.7				
E5	Cloudy	Moderate	02:35	5.6	S	0.8	209.0	20.4	20.4	29.9	29.9	8.0	8.0	97.7	97.8	7.4	7.4	7.4	7.4	24.1	25.4	44.3	44.3	44.3
						0.9	224.0	20.4		29.9	29.9	8.0		97.8	97.8	7.4		7.4		26.7		25.4		
					B	0.7	206.0	20.4	29.9	29.9	8.0	98.2	98.5	7.4	7.5	36.8	51.4	38.4	44.7	44.5				
						0.7	209.0	20.4	29.9	29.9	8.0	98.7	98.5	7.5	7.5	66.0	51.4	38.4	44.2	44.5				
E6	Cloudy	Moderate	01:43	6.3	S	1.1	153.0	20.7	20.7	28.4	28.4	8.0	8.0	92.9	92.9	7.1	7.1	7.1	7.1	7.5	7.6	9.1	13.8	13.8
						1.1	161.0	20.7		28.5	28.5	8.0		92.8	92.9	7.1		7.1		7.8		8.9		
					M	0.9	154.0	20.6	29.4	29.4	8.0	92.4	92.5	7.0	7.0	11.5	11.6	12.0	11.8	11.6				
						1.0	162.0	20.6	29.4	29.4	8.0	92.5	92.5	7.0	7.0	11.7	11.6	12.0	11.4	11.6				
					B	0.8	155.0	20.6	29.6	29.6	8.0	93.4	93.5	7.1	7.1	17.9	16.8	7.1	17.9	16.8				
						0.8	161.0	20.6	29.6	29.6	8.0	93.6	93.5	7.1	7.1	15.7	16.8	7.1	15.7	16.8				
E7A	Cloudy	Moderate	01:22	5.1	S	0.5	192.0	20.9	20.9	28.1	28.2	8.0	8.0	93.8	93.8	7.1	7.1	7.1	7.1	4.0	4.2	8.2	10.1	10.1
						0.5	210.0	20.9		28.2	28.2	8.0		93.8	93.8	7.1		7.1		4.3		4.2		
					B	0.4	179.0	20.8	28.3	28.3	8.0	95.5	95.6	7.2	7.2	7.2	7.1	5.6	12.0	12.2				
						0.4	185.0	20.8	28.3	28.3	8.0	95.7	95.6	7.3	7.2	6.9	7.1	5.6	12.3	12.2				
F1	Cloudy	Calm	01:32	20.0	S	0.8	153.1	20.1	20.1	32.4	32.4	8.3	8.3	104.4	104.5	7.8	7.8	7.8	7.8	2.3	2.3	5.1	7.4	7.4
						0.8	153.1	20.1		32.4	32.4	8.3		104.5	104.5	7.8		2.3		4.7				
					M	0.9	89.7	20.2	32.4	32.4	8.3	103.6	103.7	7.8	7.8	3.2	3.2	3.3	7.3	7.2				
						0.9	143.9	20.2	32.4	32.4	8.3	103.7	103.7	7.8	7.8	3.2	3.2	3.3	7.1	7.2				
					B	0.2	14.4	20.2	32.4	32.4	8.3	103.0	103.0	7.7	7.7	4.4	4.3	7.7	4.4	4.3				
						0.6	199.5	20.2	32.4	32.4	8.3	103.0	103.0	7.7	7.7	4.2	4.3	7.7	4.2	4.3				
F2	Cloudy	Calm	01:01	19.1	S	0.6	189.7	20.1	20.1	32.4	32.4	8.3	8.3	105.1	105.2	7.9	7.9	7.9	7.9	1.2	1.2	4.2	5.1	5.1
						0.7	107.2	20.1		32.4	32.4	8.3		105.2	105.2	7.9		1.2		3.8				
					M	0.5	104.5	20.1	32.4	32.4	8.3	104.4	104.5	7.8	7.8	1.3	1.3	1.4	5.2	5.1				
						0.6	89.7	20.1	32.4	32.4	8.3	104.5	104.5	7.8	7.8	1.2	1.3	1.4	5.0	5.1				
					B	0.4	202.2	20.1	32.4	32.4	8.3	103.7	103.7	7.8	7.8	1.6	1.6	7.8	1.6	1.6	6.3	6.2		
						0.8	183.7	20.1	32.4	32.4	8.3	103.7	103.7	7.8	7.8	1.6	1.6	7.8	1.6	1.6	6.1	6.2		

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	
F3	Cloudy	Calm	00:24	17.3	S	0.5	108.7	20.1	20.1	32.5	32.5	8.3	8.3	104.7	104.7	7.9	7.9	7.8	1.2	1.2	4.8	4.9	<0.001
						0.5	108.7	20.1		32.5		8.3		104.7		7.9			1.2		5.0		
						0.7	16.9	20.1		32.5		8.3		104.1		7.8			1.5		6.9		
					M	0.3	125.9	20.1	32.5	8.3	8.3	104.1	7.8	7.8	1.6	1.6	7.1	7.0	<0.001				
						0.9	162.3	20.1	32.5	8.3	8.3	103.4	7.8	7.8	2.5	2.5	8.3	8.5	0.014				
						0.5	260.8	20.1	32.5	8.3	8.3	103.4	7.8	7.8	2.4	2.4	8.7	<0.001					
F4	Cloudy	Calm	23:28	13.0	S	1.1	116.4	20.5	20.5	32.2	32.2	8.2	8.2	101.9	102.0	7.6	7.6	7.6	3.1	3.1	7.1	7.2	<0.001
						0.8	91.8	20.5		32.2		8.2		102.0		7.6			3.1		7.3		
						0.5	146.9	20.5		32.2		8.2		101.4		7.6			3.7		8.3		
					M	0.4	94.6	20.5	32.2	8.2	8.2	101.5	7.6	7.6	3.5	3.6	8.0	8.2	<0.001				
						0.4	75.8	20.5	32.2	8.2	8.2	101.0	7.5	7.5	7.7	7.9	16.4	16.3	0.014				
						0.5	299.4	20.5	32.2	8.2	8.2	100.9	7.5	7.5	8.1	8.1	16.2	<0.001					
F5	Fine	Moderate	03:40	5.1	S	0.4	198.0	20.3	20.3	31.1	31.1	8.0	8.0	99.5	99.5	7.5	7.5	7.5	12.0	13.7	19.5	19.5	<0.001
						0.4	205.0	20.3		31.1		8.0		99.5		7.5			15.3		19.4		
					B	0.3	199.0	20.3	31.1	8.0	8.0	99.8	7.5	7.5	15.3	16.2	21.8	21.7	<0.001				
						0.3	207.0	20.3	31.1	8.0	8.0	100.4	7.6	7.5	17.1	17.1	21.6	<0.001					
F6	Cloudy	Moderate	23:35	14.0	S	0.4	136.0	20.4	20.4	30.3	30.3	8.0	8.0	97.7	97.7	7.4	7.4	7.4	5.8	5.8	11.0	11.2	<0.001
						0.4	146.0	20.4		30.3		8.0		97.7		7.4			5.7		11.4		
						0.5	129.0	20.4		30.6		8.0		98.5		7.4			8.6		11.7		
					M	0.6	133.0	20.4	30.6	8.0	8.0	98.6	7.4	7.4	8.7	8.6	12.1	11.9	<0.001				
						0.5	102.0	20.4	31.1	8.0	8.0	99.7	7.5	7.5	7.7	7.6	11.9	12.2	<0.001				
						0.6	107.0	20.4	31.1	8.0	8.0	99.7	7.5	7.5	7.6	7.6	12.5	12.2	<0.001				
IM1	Cloudy	Calm	01:53	9.3	S	0.2	144.9	20.7	20.7	32.4	32.4	8.3	8.3	105.0	105.0	7.8	7.8	7.8	3.5	3.7	6.2	6.1	<0.001
						0.7	207.2	20.8		32.4		8.3		104.9		7.8			3.9		6.0		
						0.5	180.6	20.4		32.4		8.3		105.1		7.8			3.5		7.3		
					M	0.5	180.6	20.5	32.4	8.3	8.3	105.0	7.8	7.8	3.5	3.5	7.1	7.2	<0.001				
						0.4	146.0	20.4	32.4	8.3	8.3	104.6	7.8	7.8	3.7	3.6	8.0	7.9	<0.001				
						0.4	120.6	20.4	32.4	8.3	8.3	104.8	7.8	7.8	3.5	3.5	7.7	<0.001					
IM2	Cloudy	Calm	02:17	11.0	S	1.6	179.3	20.7	20.7	31.9	31.9	8.1	8.1	94.2	94.2	7.0	7.0	7.0	4.1	4.0	8.4	8.3	<0.001
						0.8	229.8	20.7		31.9		8.1		94.2		7.0			3.8		8.2		
						0.4	170.3	20.7		31.9		8.1		94.0		7.0			5.5		9.0		
					M	0.7	186.6	20.7	31.9	8.1	8.1	93.9	7.0	7.0	4.7	5.1	9.5	9.3	<0.001				
						0.6	230.2	20.7	31.9	8.1	8.1	94.2	7.0	7.0	8.8	9.4	14.6	14.7	<0.001				
						0.3	226.9	20.7	31.9	8.1	8.1	93.9	7.0	7.0	10.0	10.0	14.7	<0.001					
IM3	Cloudy	Calm	22:13	16.0	S	0.5	190.6	20.3	20.3	32.3	32.3	8.0	8.0	102.2	102.0	7.6	7.6	7.7	5.2	5.4	10.1	10.3	<0.001
						0.5	190.6	20.3		32.3		8.0		101.7		7.6			5.5		10.5		
						0.6	343.1	20.2		32.4		8.1		104.2		7.8			3.5		11.6		
					M	0.3	50.9	20.2	32.3	8.1	8.1	104.1	7.8	7.8	3.3	3.4	12.0	11.8	<0.001				
						1.0	48.2	20.2	32.4	8.1	8.1	103.5	7.8	7.8	8.8	9.5	17.5	17.4	<0.001				
						1.0	48.2	20.2	32.4	8.1	8.1	103.6	7.8	7.8	10.1	10.1	17.2	<0.001					
IM4	Cloudy	Calm	22:35	17.2	S	0.2	168.9	20.7	20.7	32.1	32.1	8.1	8.1	100.7	100.7	7.5	7.5	7.5	4.2	4.2	6.4	6.5	<0.001
						0.2	168.9	20.7		32.1		8.1		100.7		7.5			4.2		6.5		
						0.9	31.0	20.6		32.2		8.1		100.6		7.5			6.6		9.4		
					M	0.9	31.0	20.6	32.2	8.1	8.1	100.1	7.5	7.5	6.5	6.6	9.1	9.3	<0.001				
						0.6	27.2	20.3	32.4	8.2	8.2	103.1	7.7	7.7	9.0	8.6	13.2	13.4	<0.001				
						0.5	324.2	20.3	32.4	8.2	8.2	103.6	7.8	7.7	8.1	8.6	13.5	<0.001					
IM5	Cloudy	Calm	00:00	15.3	S	0.3	126.9	20.4	20.4	32.3	32.3	8.2	8.2	101.7	101.5	7.6	7.6	7.7	3.3	3.3	4.4	4.4	<0.001
						0.6	153.6	20.4		32.3		8.2		101.2		7.6			3.3		4.3		
						0.3	262.8	20.3		32.3		8.2		104.0		7.8			3.2		5.9		
					M	0.2	145.6	20.3	32.3	8.2	8.2	104.0	7.8	7.8	3.3	3.3	6.2	6.1	<0.001				
						0.6	190.5	20.3	32.4	8.2	8.2	102.9	7.7	7.7	15.6	15.3	32.6	28.4	<0.001				
						0.3	320.5	20.3	32.4	8.2	8.2	103.4	7.7	7.7	14.9	14.9	24.1	<0.001					

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
IM6	Cloudy	Calm	00:12	16.3	S	0.6	72.2	20.1	20.1	32.5	32.5	8.3	8.3	104.2	104.1	7.8	7.8	7.8	1.5	1.5	2.0	3.9	3.8	5.5	<0.001
						0.6	72.2	20.1		32.5	32.5	8.3		104.0		7.8			1.5			3.7			<0.001
						0.6	48.2	20.1		32.5	32.5	8.3		104.7		7.9			2.0			5.3			<0.001
					M	0.6	357.9	20.1	32.5	32.5	8.3	104.6	7.8	1.7	1.9	5.6	5.5	7.2	7.2	7.2	7.0	<0.001			
						0.9	154.7	20.1	32.5	32.5	8.3	103.9	7.8	2.5	2.6	7.3	7.2	7.2	7.0	<0.001					
						0.6	74.5	20.1	32.5	32.5	8.3	103.9	7.8	2.6	2.6	7.0	<0.001								
IM7	Fine	Rough	23:30	15.3	S	0.2	143.0	19.7	19.7	33.8	33.8	8.2	8.2	104.6	104.6	7.8	7.8	7.8	1.6	1.6	2.6	6.5	6.4	4.7	<0.001
						0.2	145.0	19.7		33.8	33.8	8.2		104.6		7.8			1.6			6.3			
						0.3	138.0	19.7		33.8	33.8	8.2		104.3		7.8			1.9			4.1			
					M	0.3	141.0	19.7	33.8	33.8	8.2	104.3	7.8	1.9	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2			
						0.1	151.0	19.7	33.8	33.8	8.2	103.8	7.8	4.3	3.3	3.5	3.5	3.5	3.5	3.5	3.5				
						0.1	153.0	19.7	33.8	33.8	8.2	103.8	7.8	4.5	3.7	3.5	3.5	3.7	3.7	3.7	3.7				
IM8	Fine	Rough	23:41	13.2	S	0.3	76.0	19.8	19.8	33.7	33.7	8.2	8.2	104.5	104.5	7.8	7.8	7.8	2.2	2.2	2.4	3.5	3.7	4.4	<0.001
						0.3	81.0	19.8		33.7	33.7	8.2		104.5		7.8			2.2			3.8			
						0.3	96.0	19.7		33.8	33.8	8.2		104.4		7.8			2.0			4.4			
					M	0.3	100.0	19.7	33.8	33.8	8.2	104.4	7.8	2.1	4.2	4.3	4.3	4.2	4.2	4.2	4.2				
						0.1	100.0	19.7	33.8	33.8	8.2	103.8	7.8	2.8	5.4	5.1	5.1	5.1	5.1	5.1	5.1				
						0.1	105.0	19.7	33.8	33.8	8.2	103.8	7.8	3.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8				
IM9	Fine	Rough	00:12	15.4	S	0.7	109.0	20.0	20.0	33.5	33.5	8.2	8.2	102.4	102.4	7.6	7.6	7.6	2.6	2.6	5.3	3.7	3.8	5.1	<0.001
						0.8	115.0	20.0		33.5	33.5	8.2		102.4		7.6			2.6			3.8			
						0.6	103.0	19.9		33.6	33.6	8.2		103.1		7.7			3.5			5.0			
					M	0.7	104.0	19.9	33.6	33.6	8.2	103.1	7.7	3.5	4.8	4.9	4.9	4.8	4.8	4.8	4.8				
						0.5	90.0	19.9	33.7	33.7	8.2	102.7	7.7	8.1	6.6	6.8	6.8	6.6	6.6	6.6	6.6				
						0.5	90.0	19.9	33.7	33.7	8.2	102.7	7.7	11.7	6.9	6.8	6.8	6.9	6.9	6.9	6.9				
IM10	Fine	Moderate	01:07	8.6	S	0.5	88.0	20.3	20.3	33.4	33.4	8.2	8.2	101.2	101.2	7.5	7.5	7.5	15.4	15.2	35.0	39.5	39.9	66.0	<0.001
						0.6	95.0	20.3		33.4	33.4	8.2		101.2		7.5			15.1			40.2			
						0.5	79.0	20.3		33.4	33.4	8.1		101.2		7.5			48.9			52.3			
					M	0.5	82.0	20.3	33.4	33.4	8.1	101.2	7.5	50.6	53.1	52.7	52.7	53.1	53.1	53.1	53.1				
						0.4	71.0	20.3	33.4	33.4	8.2	100.9	7.5	41.5	105.0	105.5	105.5	105.0	105.0	105.0					
						0.4	75.0	20.3	33.4	33.4	8.2	100.9	7.5	38.5	106.0	105.5	105.5	106.0	105.5	105.5	105.5				
IM11A	Fine	Moderate	01:24	5.3	S	0.6	119.0	20.2	20.2	33.2	33.2	8.1	8.1	99.1	99.1	7.4	7.4	7.4	49.1	47.1	54.1	44.4	44.2	53.8	<0.001
						0.6	124.0	20.2		33.2	33.2	8.1		99.1		7.4			45.0			43.9			
						0.5	71.0	20.2		33.2	33.2	8.1		99.1		7.4			42.5			63.7			
					B	0.5	76.0	20.2	33.2	33.2	8.1	99.2	7.4	79.9	63.2	63.5	63.5	63.2	63.2	63.2					
						1.3	178.0	20.2	33.1	33.1	8.2	99.0	7.4	23.0	71.6	70.4	70.4	71.6	71.6	71.6					
						1.3	181.0	20.2	33.1	33.1	8.2	99.0	7.4	27.5	69.2	83.8	84.3	84.3	83.8	83.8					
IM12	Fine	Moderate	01:37	14.7	M	1.2	178.0	20.2	20.2	33.1	33.1	8.1	8.1	98.9	98.9	7.4	7.4	7.4	35.2	38.2	35.9	84.7	84.3	87.1	<0.001
						1.3	178.0	20.2		33.1	33.1	8.1		98.9		7.4			41.2			106.0			
						1.0	167.0	20.2		33.1	33.1	8.1		98.9		7.4			40.3			107.0			
					B	1.0	172.0	20.2	33.1	33.1	8.1	99.3	7.4	48.1	107.0	106.5	106.5	107.0	106.5	106.5					
						1.3	211.0	20.2	32.3	32.3	8.2	100.0	7.5	6.8	25.2	25.0	25.0	25.2	25.2	25.2					
						1.3	211.0	20.2	32.3	32.3	8.2	99.9	7.5	6.8	24.8	26.4	26.9	26.9	26.4	26.4					
IM13	Fine	Moderate	02:13	15.6	M	1.2	208.0	20.2	20.2	32.6	32.6	8.2	8.2	99.6	99.6	7.5	7.5	7.5	8.6	8.5	13.3	26.4	26.9	27.1	<0.001
						1.2	225.0	20.2		32.6	32.6	8.2		99.6		7.5			8.5			27.3			
						1.1	209.0	20.2		32.6	32.6	8.2		99.4		7.4			25.1			29.1			
					B	1.2	211.0	20.2	32.6	32.6	8.2	99.4	7.4	24.1	29.6	29.5	29.5	29.6	29.6						
						1.0	185.0	20.5	32.1	32.1	8.2	100.9	7.5	19.0	36.3	36.4	36.4	36.3	36.3						
						1.1	201.0	20.5	32.1	32.1	8.2	100.9	7.5	20.9	36.4	36.4	36.4	36.4	36.4						
IM14	Fine	Moderate	02:26	10.2	M	0.9	184.0	20.5	20.5	32.1	32.1	8.2	8.2	100.8	100.8	7.5	7.5	7.5	34.9	34.8	32.1	50.2	49.8	60.8	<0.001
						1.0	196.0	20.5		32.1	32.1	8.2		100.8		7.5			34.8			49.4			
						0.7	183.0	20.3		32.1	32.1	8.2		100.5		7.5			40.4			95.8			
					B	0.7	186.0	20.3	32.1	32.1	8.2	100.5	7.5	42.4	96.5	96.2	96.2	96.5	96.2						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*					
IM15	Cloudy	Moderate	02:46	5.8	S	1.1	215.0	20.3	20.3	30.6	30.6	8.0	8.0	98.5	98.6	7.4	7.4	7.4	15.4	14.0	12.8	16.2	16.5	17.6						
						1.2	220.0	20.3	30.6	30.6	8.0	8.0	98.6	98.6	7.4	7.4	7.4	12.6	14.0	12.8	16.8	16.5								
					B	0.9	215.0	20.3	20.3	30.6	30.6	8.0	8.0	99.4	99.5	7.5	7.5	7.5	12.8	11.6	12.8	18.8	18.6							
						1.0	215.0	20.3	20.3	30.6	30.6	8.0	8.0	99.6	99.5	7.5	7.5	7.5	10.5	11.6	12.8	18.4	18.6							
IM16A	Cloudy	Moderate	02:25	6.1	S	0.7	196.0	20.6	20.6	29.4	29.4	8.0	8.0	96.4	96.4	7.3	7.3	7.3	17.8	18.9	7.3	25.0	25.4	38.3						
						0.8	199.0	20.6	20.6	29.4	29.4	8.0	8.0	96.4	96.4	7.3	7.3	7.3	20.1	18.9		25.8	25.4							
					M	0.6	200.0	20.6	20.6	29.4	29.4	8.0	8.0	96.4	96.5	7.3	7.3	7.3	18.5	22.2	18.5	38.8	38.9							
						0.6	213.0	20.6	20.6	29.4	29.4	8.0	8.0	96.5	96.5	7.3	7.3	7.3	25.8	22.2	18.5	39.0	38.9							
					B	0.6	199.0	20.6	20.6	29.5	29.5	8.0	8.0	96.9	97.1	7.3	7.3	7.3	58.2	54.7	51.2	49.9	50.7							
						0.6	213.0	20.6	20.6	29.5	29.5	8.0	8.0	97.2	97.2	7.4	7.4	7.4	51.2	54.7	51.2	49.9	50.7							
					IM17	Cloudy	Moderate	02:05	5.0	S	0.7	164.0	20.6	20.6	27.7	27.7	8.0	8.0	95.8	95.9	7.3	7.3	7.3		24.8	19.6	21.4	29.6	29.9	30.9
											0.7	173.0	20.6	20.6	27.7	27.7	8.0	8.0	95.9	95.9	7.3	7.3	7.3		14.4	19.6		24.8	29.9	
B	0.5	165.0	20.6	20.6						27.8	27.8	8.0	8.0	96.6	97.0	7.4	7.4	7.4	30.2	23.2	24.8	31.6	32.0							
	0.6	178.0	20.5	20.6						27.8	27.8	8.0	8.0	97.4	97.0	7.4	7.4	7.4	16.1	23.2	24.8	32.3	32.0							
IM18	Cloudy	Moderate	00:05	18.2	S	0.6	147.0	20.6	20.6	29.6	29.6	8.0	8.0	95.9	95.9	7.2	7.2	7.2	5.2	5.2	7.0	5.5	5.4	7.3						
						0.6	149.0	20.6	20.6	29.6	29.6	8.0	8.0	95.9	95.9	7.2	7.2	7.2	5.2	5.2		5.2	5.4							
					M	0.5	159.0	20.5	20.5	30.5	30.5	8.0	8.0	90.5	90.5	6.8	6.8	6.8	4.1	4.2	4.1	7.6	7.5							
						0.6	163.0	20.5	20.5	30.6	30.5	8.0	8.0	90.5	90.5	6.8	6.8	6.8	4.3	4.2	4.1	7.3	7.5							
					B	0.3	158.0	20.5	20.5	30.8	30.8	8.0	8.0	90.5	90.6	6.8	6.8	6.8	9.3	9.5	9.3	9.0	9.1							
						0.4	172.0	20.5	20.5	30.8	30.8	8.0	8.0	90.6	90.6	6.8	6.8	6.8	9.6	9.5	9.3	9.1	9.1							
					IM19	Cloudy	Moderate	00:19	17.8	S	0.8	185.0	20.9	20.9	29.2	29.2	8.0	8.0	94.6	94.6	7.1	7.1	7.1		4.0	3.9	7.1	8.2	8.1	7.3
											0.8	198.0	20.9	20.9	29.2	29.2	8.0	8.0	94.6	94.6	7.1	7.1	7.1		3.9	3.9		8.0	8.1	
M	0.7	170.0	20.7	20.7						29.5	29.5	8.0	8.0	94.3	94.3	7.1	7.1	7.1	3.5	3.5	3.5	7.0	7.2							
	0.8	180.0	20.7	20.7						29.5	29.5	8.0	8.0	94.3	94.3	7.1	7.1	7.1	3.5	3.5	3.5	7.3	7.2							
B	0.6	151.0	20.6	20.6	30.1	30.1	8.0	8.0	94.3	94.5	7.1	7.1	7.1	6.5	6.3	6.5	6.8	6.8												
	0.6	162.0	20.6	20.6	30.1	30.1	8.0	8.0	94.7	94.5	7.1	7.1	7.1	6.1	6.3	6.5	6.7	6.8												
IM20A	Cloudy	Moderate	01:00	5.2	S	0.6	244.0	21.2	21.2	27.9	27.9	8.0	8.0	99.7	99.6	7.5	7.5	7.5	7.2	7.2	9.5	11.8	11.7	12.6						
						0.7	247.0	21.2	21.2	27.9	27.9	8.0	8.0	99.5	99.6	7.5	7.5	7.5	7.2	7.2		11.5	11.7							
					B	0.5	238.0	21.0	21.0	28.4	28.4	8.0	8.0	96.9	97.0	7.3	7.3	7.3	11.8	11.8	11.8	13.5	13.6							
						0.5	252.0	21.0	21.0	28.4	28.4	8.0	8.0	97.1	97.0	7.3	7.3	7.3	11.8	11.8	11.8	13.7	13.6							
IM21A	Cloudy	Moderate	00:46	5.5	S	0.4	211.0	21.2	21.2	28.6	28.6	8.0	8.0	93.0	93.1	7.0	7.0	7.0	14.6	14.7	18.2	19.7	19.7	30.6						
						0.4	224.0	21.2	21.2	28.6	28.6	8.0	8.0	93.1	93.1	7.0	7.0	7.0	14.9	14.7		14.6	19.6		19.7					
					B	0.2	206.0	21.2	21.2	28.7	28.7	8.0	8.0	93.6	93.7	7.0	7.0	7.0	21.4	21.7	21.4	41.9	41.6							
						0.2	211.0	21.2	21.2	28.7	28.7	8.0	8.0	93.7	93.7	7.1	7.1	7.1	21.9	21.7	21.4	41.2	41.6							
IM22A	Cloudy	Moderate	00:38	5.2	S	0.5	221.0	22.0	22.0	29.0	29.0	7.9	7.9	96.9	97.0	7.2	7.2	7.2	12.1	12.3	12.0	20.7	21.0	19.6						
						0.5	236.0	22.0	22.0	29.0	29.0	7.9	7.9	97.0	97.0	7.2	7.2	7.2	12.4	12.3		12.1	21.3		21.0					
					B	0.5	218.0	22.0	22.0	29.0	29.0	8.0	8.0	98.0	98.2	7.2	7.3	7.3	11.7	11.7	11.7	18.0	18.2							
						0.5	232.0	22.0	22.0	29.0	29.0	8.0	8.0	98.4	98.2	7.3	7.3	7.3	11.8	11.7	11.7	18.4	18.2							

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: 2020/01/10

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
E1	Cloudy	Calm	05:07	8.0	S	0.7	319.6	20.6	20.6	31.7	31.7	7.8	7.8	90.3	90.3	6.7	6.7	6.7	4.5	6.0	5.9	9.0	11.9	0.009
						0.7	319.6	20.6		31.7	31.7	7.8		90.3	6.7	6.7		4.5	9.5					
						1.2	278.0	20.6		31.7	31.7	7.8		90.3	6.7	6.7		5.8	11.3					
					M	0.6	284.6	20.6	31.7	31.7	7.8	90.2	90.3	6.7	6.7	6.1	6.0	5.9	11.7	11.5				
						0.1	72.9	20.6	31.7	31.7	7.8	91.4	91.0	6.8	6.8	6.4	7.4	5.9	14.7	14.9				
						0.4	267.0	20.6	31.7	31.7	7.8	90.5	91.0	6.8	6.8	8.3	7.4	5.9	15.0	14.9				
E2	Cloudy	Calm	08:27	8.3	S	0.4	318.6	20.8	20.8	32.2	32.2	8.0	8.0	98.1	98.2	7.3	7.3	7.3	5.2	5.6	5.9	10.9	10.8	0.009
						0.4	318.6	20.8		32.2	32.2	8.0		98.2	7.3	7.3		6.0	10.5					
						0.5	329.3	20.8		32.2	32.2	8.0		97.8	7.3	7.3		5.3	10.4					
					M	0.5	329.3	20.8	32.2	32.2	8.0	97.8	7.3	7.3	5.8	10.7	10.6	5.9	10.7	10.6				
						0.6	278.2	20.8	32.2	32.2	8.1	97.6	97.6	7.2	7.2	6.4	6.6	5.9	11.2	11.2				
						0.4	170.2	20.8	32.2	32.2	8.0	97.5	97.6	7.2	7.2	6.7	6.6	5.9	11.1	11.2				
E3	Fine	Moderate	07:12	16.3	S	0.7	289.0	20.1	20.1	32.7	32.7	8.2	8.2	99.2	99.2	7.4	7.4	7.4	6.5	6.5	16.2	13.1	16.8	0.009
						0.8	314.0	20.1		32.7	32.7	8.2		99.2	7.4	7.4		6.5	12.7					
						0.6	292.0	20.1		32.8	32.8	8.2		99.1	99.1	7.4		7.4	7.1		16.3			
					M	0.7	296.0	20.1	32.8	32.8	8.2	99.1	99.1	7.4	7.4	7.2	7.1	16.2	16.2					
						0.6	296.0	20.1	32.9	32.9	8.2	99.2	99.3	7.4	7.4	37.0	21.5	16.2	21.5					
						0.7	321.0	20.1	32.9	32.9	8.2	99.3	99.3	7.4	7.4	33.2	35.1	16.2	21.5					
E4	Fine	Moderate	05:47	10.6	S	0.0	233.0	20.4	20.4	31.8	31.8	8.1	8.1	98.3	98.3	7.4	7.4	7.4	17.4	19.1	17.4	25.7	34.4	0.009
						0.0	246.0	20.4		31.8	31.8	8.1		98.3	7.4	7.4		17.5	25.5					
						0.0	356.0	20.4		31.9	31.9	8.1		98.8	7.4	7.4		19.0	34.9					
					M	0.0	5.0	20.4	31.9	31.9	8.1	98.8	7.4	7.4	19.4	35.2	34.4	35.2						
						0.1	6.0	20.3	32.0	32.0	8.1	98.8	7.4	7.4	20.5	42.2	42.3	42.3						
						0.2	6.0	20.3	32.0	32.0	8.1	98.8	7.4	7.4	20.7	42.4	42.3	42.3						
E5	Fine	Moderate	05:47	5.0	S	0.5	247.0	20.6	20.6	28.9	28.9	8.0	8.0	92.1	92.1	7.0	7.0	7.0	16.5	25.2	17.2	28.0	33.0	0.009
						0.5	256.0	20.6		28.9	28.9	8.0		92.1	7.0	7.0		17.9	28.9					
						0.4	246.0	20.6		29.1	29.1	8.0		92.0	7.0	7.0		40.7	37.3					
					B	0.4	259.0	20.6	29.1	29.1	8.0	92.6	92.3	7.0	7.0	25.8	37.5	33.0	37.5					
						0.3	339.0	20.7	25.5	25.5	8.0	92.7	92.7	7.2	7.2	8.0	8.0	10.5	8.7	8.6				
						0.3	6.0	20.7	25.5	25.5	8.0	92.6	92.7	7.2	7.2	8.0	8.0	10.5	8.4	8.6				
E6	Fine	Moderate	06:50	4.1	S	0.3	341.0	20.8	20.8	26.4	26.4	8.0	8.0	94.5	94.7	7.2	7.3	7.3	13.0	10.5	13.0	10.8	9.6	0.009
						0.3	355.0	20.8		26.4	26.4	8.0		94.9	7.3	7.3		13.0	10.6					
						0.5	21.0	20.8		27.3	27.3	8.0		93.1	7.1	7.1		8.3	11.6					
					B	0.5	21.0	20.8	27.3	27.3	8.0	93.3	7.1	7.1	8.4	11.5	13.0	11.6						
						0.4	14.0	20.8	27.5	27.5	8.0	96.4	7.4	7.4	11.4	14.7	14.4	14.4						
						0.4	14.0	20.8	27.6	27.6	8.0	96.8	7.4	7.4	11.6	14.1	14.4	14.4						
F1	Cloudy	Calm	06:02	19.2	S	0.7	307.0	20.6	20.6	32.1	32.1	8.0	8.0	99.7	99.1	7.4	7.6	7.6	2.5	2.7	2.6	4.0	5.6	0.009
						0.7	307.0	20.6		32.1	32.1	8.0		98.4	7.3	7.3		2.7	4.0					
						0.6	277.6	20.3		32.4	32.4	8.1		104.0	7.8	7.8		2.4	5.2					
					M	0.5	273.5	20.3	32.4	32.4	8.1	104.0	7.8	7.8	2.3	5.7	5.5	5.5						
						0.4	28.5	20.2	32.5	32.5	8.1	102.8	102.8	7.7	7.7	3.2	3.3	2.7	7.1	7.3				
						0.5	73.4	20.2	32.5	32.5	8.1	102.8	102.8	7.7	7.7	3.3	3.3	2.7	7.4	7.3				
F2	Cloudy	Calm	06:32	18.3	S	0.7	236.5	20.6	20.6	32.1	32.1	8.0	8.0	99.8	99.5	7.4	7.5	7.5	2.5	2.1	2.5	6.2	6.6	0.009
						0.7	236.5	20.6		32.1	32.1	8.0		99.2	7.4	7.4		2.5	6.4					
						0.4	36.0	20.4		32.3	32.3	8.1		102.2	7.6	7.6		1.8	6.5					
					M	0.5	184.4	20.4	32.3	32.3	8.1	101.5	7.6	7.6	2.0	6.7	6.6	6.6						
						0.7	270.3	20.1	32.5	32.5	8.2	102.7	7.7	7.7	1.6	7.2	7.0	7.0						
						0.2	9.2	20.1	32.5	32.5	8.2	103.1	7.7	7.7	1.9	6.8	7.0	7.0						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*		
F3	Cloudy	Calm	07:06	17.0	S	0.8	249.8	20.2	20.2	32.4	32.4	8.1	8.1	102.5	102.3	7.7	7.7	7.7	7.7	2.0	2.0	3.0	3.0	4.4	4.3	5.8	<0.001
						1.1	287.1	20.2		32.4		8.1		102.0		7.6		1.9		4.1		<0.001					
						1.4	272.0	20.1		32.5		8.2		103.0		7.7		2.2		5.0		<0.001					
					M	0.3	327.7	20.1	32.5	8.2	102.9	7.7	2.2	4.6	8.4	<0.001											
						0.4	144.6	20.1	32.5	8.2	102.4	7.7	4.5	8.6		<0.001											
						0.4	144.6	20.1	32.5	8.2	102.5	7.7	5.1	8.2		<0.001											
F4	Cloudy	Calm	08:01	13.1	S	1.0	287.6	20.6	20.6	32.3	32.3	8.1	8.1	100.8	100.8	7.5	7.5	7.5	7.5	6.1	6.3	10.9	10.8	17.0	<0.001		
						0.7	209.3	20.6		32.3		8.1		100.8		7.5		6.5		10.7		<0.001					
						1.3	294.0	20.6		32.3		8.1		100.1		7.4		11.7		16.1		<0.001					
					M	0.5	289.0	20.6	32.3	8.1	100.1	7.4	10.5	16.4	23.9	<0.001											
						0.4	318.9	20.6	32.3	8.1	99.9	7.4	17.7	23.7		<0.001											
						1.1	258.0	20.6	32.3	8.1	99.8	7.4	17.6	24.1		<0.001											
F5	Fine	Moderate	05:08	4.9	S	0.1	151.0	20.3	20.3	30.9	30.9	8.0	8.0	99.5	99.5	7.5	7.5	7.5	7.5	7.0	6.8	12.6	12.5	11.5	<0.001		
						0.1	151.0	20.3		31.0		8.0		99.5		7.5		6.7		12.3		<0.001					
					B	0.0	132.0	20.3	31.1	8.0	100.5	7.6	6.3	10.8	<0.001												
						0.0	138.0	20.3	31.1	8.0	100.6	7.6	6.3	10.2	<0.001												
F6	Fine	Moderate	08:47	13.9	S	0.4	328.0	20.7	20.7	28.4	28.4	8.0	8.0	91.8	91.8	7.0	7.0	7.0	7.0	9.2	9.2	11.6	11.3	16.0	<0.001		
						0.4	337.0	20.7		28.4		8.0		91.8		7.0		9.1		11.0		<0.001					
						0.4	336.0	20.7		28.6		8.0		91.4		6.9		12.7		13.7		<0.001					
					M	0.4	339.0	20.7	28.6	8.0	91.4	6.9	12.4	14.1	22.9	<0.001											
						0.4	306.0	20.5	30.2	8.0	91.0	6.9	16.9	23.1		<0.001											
						0.5	307.0	20.5	30.2	8.0	91.3	6.9	17.4	22.6		<0.001											
IM1	Cloudy	Calm	05:43	9.1	S	0.2	160.9	20.6	20.6	32.2	32.2	8.0	8.0	99.4	99.1	7.4	7.4	7.4	7.4	3.6	3.5	8.0	8.3	8.7	<0.001		
						0.5	34.1	20.6		32.2		8.0		99.8		7.4		3.4		8.6		<0.001					
						0.7	333.9	20.5		32.2		8.0		99.8		7.4		3.9		8.4		<0.001					
					M	0.7	333.9	20.5	32.2	8.0	99.8	7.4	4.4	8.5	9.2	<0.001											
						0.1	28.8	20.5	32.2	8.0	99.7	7.4	4.0	9.1		<0.001											
						0.5	311.6	20.5	32.2	8.0	99.8	7.4	4.6	9.2		<0.001											
IM2	Cloudy	Calm	05:22	10.3	S	0.8	236.6	20.6	20.6	31.7	31.7	7.9	7.9	91.8	91.5	6.9	6.9	6.8	6.9	3.3	3.3	7.4	7.3	8.0	<0.001		
						0.8	236.6	20.6		31.7		7.9		91.1		6.8		3.2		7.1		<0.001					
						1.2	132.6	20.6		31.9		7.9		92.2		6.9		3.7		7.7		<0.001					
					M	0.5	145.6	20.6	31.9	7.9	93.3	7.0	3.5	8.0	8.9	<0.001											
						0.2	132.0	20.6	31.9	7.9	93.2	7.0	3.9	8.7		<0.001											
						0.4	273.9	20.7	32.0	8.0	97.4	7.2	4.3	9.0		<0.001											
IM3	Cloudy	Calm	09:20	15.3	S	0.2	206.4	20.7	20.7	32.0	32.0	8.0	8.0	96.8	96.8	7.2	7.2	7.2	7.2	2.1	2.1	5.5	5.6	7.8	<0.001		
						0.7	295.1	20.3		32.4		8.1		100.9		7.5		2.0		5.6		<0.001					
						0.7	295.1	20.3		32.4		8.1		101.2		7.6		2.4		6.9		<0.001					
					M	0.2	297.9	20.3	32.4	8.1	100.7	7.5	2.6	6.7	11.1	<0.001											
						0.8	42.6	20.3	32.4	8.1	100.9	7.5	7.1	10.9		<0.001											
						0.4	243.6	20.7	32.1	8.0	99.4	7.4	7.2	11.2		<0.001											
IM4	Cloudy	Calm	08:57	16.3	S	0.4	243.6	20.7	20.7	32.1	32.1	8.0	8.0	99.4	99.4	7.4	7.4	7.4	7.4	2.9	2.9	6.2	6.2	7.7	<0.001		
						0.4	243.6	20.7		32.1		8.0		99.2		7.4		2.9		6.1		<0.001					
						0.6	92.8	20.5		32.3		8.1		100.0		7.5		3.7		7.5		<0.001					
					M	1.0	296.5	20.5	32.3	8.1	100.0	7.5	3.6	7.2	9.5	<0.001											
						0.3	356.2	20.5	32.3	8.1	99.4	7.4	3.9	9.6		<0.001											
						0.5	328.1	20.5	32.3	8.1	99.5	7.4	4.1	9.4		<0.001											
IM5	Cloudy	Calm	07:33	15.0	S	1.0	154.6	20.4	20.4	32.3	32.3	8.1	8.1	100.4	100.4	7.5	7.5	7.5	7.5	3.7	3.7	7.2	7.2	8.9	<0.001		
						1.0	154.6	20.4		32.3		8.1		100.4		7.5		3.6		7.1		<0.001					
						0.8	309.3	20.4		32.3		8.1		99.7		7.4		4.0		8.1		<0.001					
					M	0.8	289.8	20.4	32.3	8.1	99.8	7.4	4.3	8.5	11.2	<0.001											
						0.7	105.2	20.4	32.3	8.1	99.4	7.4	5.5	11.0		<0.001											
						0.2	243.6	20.4	32.3	8.1	99.4	7.4	5.3	11.4		<0.001											

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM6	Cloudy	Calm	07:18	15.2	S	0.6	240.4	20.3	20.3	32.3	32.3	8.1	8.1	101.6	101.6	7.6	7.6	7.6	2.3	2.3	2.8	6.0	6.8	<0.001
						0.6	240.4	20.3		32.3	32.3	8.1		101.6		7.6			2.3			5.8		<0.001
						0.4	312.5	20.2		32.5	32.5	8.1		102.1		7.6			2.4			6.2		<0.001
					M	0.3	201.7	20.2	32.5	32.5	8.1	102.0	7.6	2.3	6.5	<0.001								
						0.7	305.6	20.1	32.5	32.5	8.2	101.8	7.6	3.8	8.2	<0.001								
						0.4	178.9	20.1	32.5	32.5	8.2	101.9	7.6	3.9	7.8	<0.001								
IM7	Fine	Rough	08:25	14.9	S	0.4	311.0	19.9	19.9	33.6	33.6	8.2	8.2	102.0	102.0	7.6	7.6	7.6	2.2	2.2	2.4	6.1	6.5	<0.001
						0.4	311.0	19.9		33.6	33.6	8.2		102.0		7.6			2.2			5.7		<0.001
						0.3	308.0	19.9		33.6	33.6	8.2		101.7		7.6			2.3			6.2		<0.001
					M	0.3	335.0	19.9	33.6	33.6	8.2	101.7	7.6	2.3	6.1	<0.001								
						0.4	321.0	19.9	33.6	33.6	8.2	100.2	7.5	2.8	7.1	<0.001								
						0.4	330.0	19.9	33.6	33.6	8.2	100.1	7.5	2.8	7.6	<0.001								
IM8	Fine	Rough	08:14	12.6	S	0.4	299.0	19.9	19.9	33.6	33.6	8.2	8.2	101.9	101.9	7.6	7.6	7.6	3.0	3.0	5.8	4.8	6.7	<0.001
						0.4	310.0	19.9		33.6	33.6	8.2		101.9		7.6			3.0			5.1		<0.001
						0.3	306.0	19.9		33.6	33.6	8.2		101.9		7.6			4.0			5.8		<0.001
					M	0.4	327.0	19.9	33.7	33.6	8.2	101.9	7.6	4.1	5.8	<0.001								
						0.3	300.0	19.8	33.7	33.7	8.2	101.3	7.6	10.2	9.0	<0.001								
						0.3	311.0	19.8	33.7	33.7	8.2	101.2	7.6	10.3	9.7	<0.001								
IM9	Fine	Rough	07:48	14.7	S	0.8	301.0	20.1	20.1	33.3	33.3	8.2	8.2	100.0	100.0	7.5	7.5	7.5	7.0	7.0	12.1	11.5	13.5	<0.001
						0.8	324.0	20.1		33.3	33.3	8.2		100.0		7.5			7.1			11.1		<0.001
						0.7	292.0	20.1		33.4	33.4	8.2		100.4		7.5			6.9			12.5		<0.001
					M	0.7	294.0	20.1	33.5	33.4	8.2	100.4	7.5	6.7	12.8	<0.001								
						0.7	290.0	20.0	33.5	33.5	8.2	100.7	7.5	21.1	16.8	<0.001								
						0.7	299.0	20.0	33.5	33.5	8.2	100.8	7.5	23.7	16.5	<0.001								
IM10	Fine	Moderate	06:59	8.3	S	0.9	234.0	20.1	20.1	33.2	33.2	8.1	8.1	98.3	98.3	7.3	7.3	7.3	9.5	9.5	26.9	20.7	75.8	<0.001
						1.0	239.0	20.1		33.2	33.2	8.1		98.3		7.3			9.5			20.3		<0.001
						0.9	231.0	20.2		33.2	33.2	8.1		98.3		7.3			18.9			84.6		<0.001
					M	0.9	240.0	20.2	33.2	33.2	8.1	98.3	7.3	19.0	86.0	<0.001								
						0.8	232.0	20.2	33.2	33.2	8.1	98.4	7.3	48.6	121.0	<0.001								
						0.9	241.0	20.2	33.2	33.2	8.1	98.4	7.3	55.6	122.0	<0.001								
IM11A	Fine	Moderate	06:42	5.2	S	0.9	299.0	20.2	20.2	33.3	33.3	8.1	8.1	99.1	99.1	7.4	7.4	7.4	71.5	78.0	93.7	87.4	87.0	<0.001
						0.9	316.0	20.2		33.3	33.3	8.1		99.1		7.4			84.6			86.5		<0.001
						0.8	304.0	20.2		33.3	33.3	8.1		99.2		7.4			99.4			152.0^		<0.001
					B	0.8	322.0	20.2	33.3	33.3	8.1	99.2	7.4	119.4	-	<0.001								
						1.1	353.0	20.2	32.8	32.8	8.2	98.7	7.4	8.7	13.9	<0.001								
						1.1	25.0	20.2	32.8	32.8	8.2	98.7	7.4	8.9	13.8	<0.001								
IM12	Fine	Moderate	06:30	13.8	S	1.1	347.0	20.2	20.2	33.1	33.1	8.1	8.1	98.3	98.3	7.3	7.3	7.3	20.8	21.3	23.5	19.8	25.5	<0.001
						1.2	14.0	20.2		33.1	33.1	8.1		98.3		7.3			21.8			19.5		<0.001
						0.8	347.0	20.2		33.1	33.1	8.1		98.2		7.3			39.8			42.4		<0.001
					M	0.8	357.0	20.2	33.1	33.1	8.1	98.2	7.3	41.2	43.3	<0.001								
						0.2	103.0	20.4	29.7	29.7	8.1	97.5	7.4	20.5	18.6	<0.001								
						0.2	106.0	20.4	29.7	29.7	8.1	97.6	7.4	20.3	19.0	<0.001								
IM13	Fine	Moderate	06:07	16.1	S	0.0	32.0	20.3	20.3	31.4	31.4	8.1	8.1	98.1	98.1	7.4	7.4	7.4	25.8	25.4	25.8	31.8	30.7	<0.001
						0.0	34.0	20.3		31.4	31.4	8.1		98.2		7.4			25.0			32.3		<0.001
						0.3	2.0	20.3		31.8	31.8	8.1		98.2		7.4			31.2			40.9		<0.001
					M	0.3	2.0	20.3	31.8	31.8	8.1	98.2	7.4	31.8	41.4	<0.001								
						0.1	349.0	20.4	31.9	31.9	8.1	98.9	7.4	13.1	20.4	<0.001								
						0.1	352.0	20.4	31.9	31.9	8.1	99.0	7.4	12.9	19.8	<0.001								
IM14	Fine	Moderate	05:57	10.1	S	0.3	357.0	20.4	20.4	31.9	31.9	8.1	8.1	99.1	99.1	7.4	7.4	7.4	13.3	13.4	16.6	24.8	24.7	<0.001
						0.3	23.0	20.4		31.9	31.9	8.1		99.1		7.4			13.5			24.6		<0.001
						0.3	358.0	20.4		32.0	32.0	8.1		99.4		7.4			23.9			29.0		<0.001
					M	0.3	358.0	20.4	32.0	32.0	8.1	99.4	7.4	23.2	29.7	<0.001								
						0.1	349.0	20.4	31.9	31.9	8.1	99.0	7.4	13.1	20.4	<0.001								
						0.1	352.0	20.4	31.9	31.9	8.1	99.0	7.4	12.9	19.8	<0.001								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/10

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*	
IM15	Fine	Moderate	05:36	5.3	S	0.6	247.0	20.5	20.5	29.2	29.2	8.0	8.0	93.3	93.3	7.1	7.1	7.1	23.0	21.2	22.3	29.7	29.0	29.3		
						0.6	267.0	20.5	20.5	29.2	29.2	8.0	8.0	93.3	93.3	7.1	7.1	7.1	19.4	21.2			29.5			
					B	0.5	247.0	20.5	20.5	29.2	29.2	8.0	8.0	93.4	93.5	7.1	7.1	7.1	23.5	23.5			23.5		30.2	29.8
						0.6	260.0	20.5	20.5	29.2	29.2	8.0	8.0	93.6	93.5	7.1	7.1	7.1	23.6	23.5			23.6		30.5	29.8
IM16A	Fine	Moderate	06:04	4.8	S	0.6	264.0	20.6	20.6	28.5	28.6	8.0	8.0	91.7	91.7	7.0	7.0	7.0	7.0	7.0	13.7	16.3	11.9	11.7		
						0.6	268.0	20.6	20.6	28.6	28.6	8.0	8.0	91.7	91.7	7.0	7.0	7.0	7.0	7.0			11.4			
					B	0.4	262.0	20.6	20.6	29.2	29.2	8.0	8.0	91.7	91.8	6.9	6.9	6.9	19.3	20.3			19.3		21.0	20.6
						0.5	280.0	20.6	20.6	29.2	29.2	8.0	8.0	91.9	91.8	7.0	7.0	7.0	21.4	20.3			21.4		21.0	
IM17	Fine	Moderate	06:26	4.0	S	0.3	315.0	20.6	20.7	26.2	26.2	8.0	8.0	91.1	91.1	7.0	7.0	7.0	13.3	13.3	14.9	18.6	16.1	16.5		
						0.3	323.0	20.7	20.7	26.2	26.2	8.0	8.0	91.0	91.0	7.0	7.0	7.0	13.3	13.3			16.8			
					B	0.3	305.0	20.7	20.7	29.0	29.0	8.0	8.0	90.9	91.5	6.9	6.9	6.9	12.5	16.4			12.5		20.7	21.0
						0.4	311.0	20.7	20.7	28.9	28.9	8.0	8.0	92.0	91.5	7.0	7.0	7.0	20.4	16.4			20.4		20.3	
IM18	Fine	Moderate	08:20	17.2	S	0.3	354.0	20.8	20.8	27.2	27.2	8.0	8.0	91.4	91.4	7.0	7.0	7.0	4.6	4.7	5.6	10.1	9.0	8.9		
						0.3	355.0	20.8	20.8	27.2	27.2	8.0	8.0	91.3	91.4	7.0	7.0	7.0	4.7	4.7			8.8			
					M	0.5	336.0	20.7	20.7	28.8	28.8	8.0	8.0	90.0	90.0	6.8	6.8	6.8	5.8	5.8			5.8		9.4	9.5
						0.5	344.0	20.7	20.7	28.9	28.9	8.0	8.0	90.0	90.0	6.8	6.8	6.8	5.8	5.8			5.8		9.2	
					B	0.5	336.0	20.6	20.6	29.6	29.6	8.0	8.0	89.8	89.8	6.8	6.8	6.8	6.3	6.3			6.3		12.0	12.1
						0.5	4.0	20.6	20.6	29.6	29.6	8.0	8.0	89.8	89.8	6.8	6.8	6.8	6.2	6.3			6.2		12.2	
IM19	Fine	Moderate	08:04	17.5	S	0.4	351.0	20.8	20.8	27.2	27.2	8.0	8.0	91.8	91.8	7.0	7.0	7.0	5.0	5.0	8.6	9.5	8.3	8.5		
						0.5	9.0	20.8	20.8	27.2	27.2	8.0	8.0	91.8	91.8	7.0	7.0	7.0	5.0	5.0			8.7			
					M	0.8	341.0	20.8	20.8	28.7	28.7	8.0	8.0	92.4	92.4	7.0	7.0	7.0	5.8	5.7			5.8		9.9	
						0.9	11.0	20.8	20.8	28.8	28.8	8.0	8.0	92.4	92.4	7.0	7.0	7.0	5.7	5.7			5.7		9.8	
					B	0.7	344.0	20.8	20.8	29.3	29.3	8.0	8.0	92.1	92.3	6.9	7.0	7.0	15.0	15.0			15.0		10.2	
						0.8	6.0	20.8	20.8	29.3	29.3	8.0	8.0	92.4	92.3	7.0	7.0	7.0	15.0	15.0			15.0		9.8	
IM20A	Fine	Moderate	07:28	3.6	S	0.5	54.0	21.0	21.0	27.8	27.8	8.0	8.0	98.5	98.5	7.5	7.5	7.5	12.4	12.5	17.4	15.5	13.9	14.1		
						0.5	54.0	21.0	21.0	27.8	27.8	8.0	8.0	98.4	98.5	7.5	7.5	7.5	12.6	12.5			14.2			
					B	0.5	55.0	20.9	20.9	28.0	28.0	8.0	8.0	95.3	96.4	7.2	7.3	7.3	18.6	22.3			18.6		17.0	
						0.5	57.0	20.9	20.9	28.0	28.0	8.0	8.0	97.4	96.4	7.4	7.3	7.3	26.0	22.3			26.0		17.0	
IM21A	Fine	Moderate	07:42	4.6	S	0.4	34.0	22.4	22.4	27.9	27.9	8.0	8.0	99.8	99.9	7.4	7.4	7.4	14.8	14.8	15.4	20.2	18.5	18.6		
						0.4	35.0	22.4	22.4	27.9	27.9	8.0	8.0	99.9	99.9	7.4	7.4	7.4	14.7	14.8			18.7			
					B	0.3	28.0	22.4	22.4	27.9	27.9	8.0	8.0	100.5	100.7	7.4	7.4	7.4	15.0	16.0			15.0		21.6	
						0.3	28.0	22.3	22.3	27.9	27.9	8.0	8.0	100.9	100.7	7.5	7.4	7.4	16.9	16.0			16.9		22.0	
IM22A	Fine	Moderate	07:48	4.3	S	0.2	80.0	21.0	21.0	28.4	28.4	8.0	8.0	94.4	94.4	7.1	7.1	7.1	12.9	13.0	12.9	13.8	8.6	8.7		
						0.2	86.0	21.0	21.0	28.4	28.4	8.0	8.0	94.4	94.4	7.1	7.1	7.1	13.0	13.0			8.8			
					B	0.2	71.0	21.0	21.0	28.4	28.4	8.0	8.0	95.2	95.3	7.2	7.2	7.2	12.7	12.9			12.7		19.0	18.8
						0.2	72.0	21.0	21.0	28.4	28.4	8.0	8.0	95.3	95.3	7.2	7.2	7.2	13.1	12.9			13.1		19.1	

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

^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*		
E1	Cloudy	Moderate	04:55	8.2	S	1.1	204.1	20.3	20.3	31.9	31.9	8.2	8.2	94.8	94.8	7.1	7.1	7.1	7.1	5.6	5.5	8.0	10.0	12.1			
						0.1	119.2	20.3	31.9	31.9	8.2	8.2	94.8	94.8	7.1	7.1	7.1	7.1	5.3	5.5	10.3		10.2				
						0.5	221.3	20.3	31.9	31.9	8.2	8.2	94.5	94.5	7.1	7.1	7.1	7.1	7.2	7.6	12.2		12.4				
					M	0.3	196.8	20.3	31.9	31.9	8.2	8.2	94.5	94.5	7.1	7.1	7.1	7.1	8.0	7.6	7.1		7.6	12.6		12.4	
						0.5	156.7	20.3	31.9	31.9	8.2	8.2	94.4	94.3	7.1	7.1	7.1	7.1	10.4	11.0	7.1		7.6	13.5		13.8	
						0.9	166.8	20.3	31.9	31.9	8.2	8.2	94.2	94.3	7.1	7.1	7.1	7.1	11.5	11.0	7.1		7.6	14.0		13.8	
E2	Cloudy	Moderate	00:57	9.1	S	0.2	72.4	20.4	20.4	32.1	32.1	8.2	8.2	100.8	100.8	7.5	7.5	7.5	7.5	4.5	4.5	5.0	7.3	8.4	<0.001		
						0.5	74.7	20.4	32.1	32.1	8.2	8.2	100.8	100.8	7.5	7.5	7.5	7.5	4.4	4.5	7.1		7.2		<0.001		
						0.3	66.6	20.4	32.1	32.1	8.1	8.1	100.8	100.8	7.5	7.5	7.5	7.5	4.8	5.2	9.1		9.0		<0.001		
					M	0.7	338.2	20.4	32.1	32.1	8.1	8.1	100.7	100.7	7.5	7.5	7.5	7.5	5.6	5.2	7.5		7.5		8.9	9.0	<0.001
						0.3	276.6	20.4	32.2	32.2	8.1	8.1	101.2	101.0	7.6	7.5	7.5	7.5	5.1	5.3	9.3		9.0		9.3	9.0	<0.001
						0.3	276.6	20.4	32.2	32.2	8.1	8.1	100.8	100.8	7.5	7.5	7.5	7.5	5.5	5.3	8.6		8.6		8.6	8.6	<0.001
E3	Cloudy	Rough	02:48	16.9	S	0.9	109.0	19.7	19.7	33.4	33.4	8.2	8.2	108.1	108.2	8.1	8.1	8.1	8.1	3.1	3.1	8.4	5.4	8.0			
						0.9	113.0	19.7	33.4	33.4	8.2	8.2	108.2	108.2	8.1	8.1	8.1	8.1	3.2	3.1	5.2		5.3				
						0.9	105.0	19.7	33.7	33.7	8.3	8.3	108.3	108.3	8.1	8.1	8.1	8.1	4.3	4.3	8.6		8.5				
					M	0.9	105.0	19.7	33.7	33.7	8.3	8.3	108.3	108.3	8.1	8.1	8.1	8.1	4.3	4.3	8.4		8.5				
						0.7	103.0	19.7	33.7	33.7	8.2	8.2	107.0	107.0	8.0	8.0	8.0	8.0	17.8	17.8	10.3		10.2				
						0.7	111.0	19.7	33.7	33.7	8.2	8.2	106.9	107.0	8.0	8.0	8.0	8.0	17.8	17.8	10.0		10.2				
E4	Cloudy	Rough	04:42	10.3	S	1.3	208.0	19.8	19.8	32.2	32.2	8.2	8.2	99.1	99.1	7.5	7.5	7.5	7.5	17.8	18.3	39.7	88.1	71.5			
						1.4	213.0	19.8	32.2	32.2	8.2	8.2	99.1	99.1	7.5	7.5	7.5	7.5	18.8	18.3	89.8		89.0				
						1.1	208.0	19.8	32.3	32.3	8.1	8.1	99.4	99.4	7.5	7.5	7.5	7.5	42.3	44.5	79.2		78.6				
					M	1.1	209.0	19.8	32.3	32.3	8.1	8.1	99.4	99.4	7.5	7.5	7.5	7.5	46.7	44.5	78.0		78.6				
						0.9	211.0	19.7	32.3	32.3	8.1	8.1	100.1	100.2	7.6	7.6	7.6	7.6	57.8	56.3	47.3		46.9				
						1.0	213.0	19.7	32.3	32.3	8.1	8.1	100.2	100.2	7.6	7.6	7.6	7.6	54.9	56.3	46.4		46.9				
E5	Fine	Rough	04:14	5.9	S	1.0	211.0	19.7	19.7	30.3	30.3	8.0	8.0	96.8	96.8	7.4	7.4	7.4	7.4	23.0	22.5	27.4	34.9	35.8			
						1.0	213.0	19.7	30.3	30.3	8.0	8.0	96.8	96.8	7.4	7.4	7.4	7.4	32.3	32.3	34.3		34.6				
						0.8	214.0	19.7	30.4	30.4	8.0	8.0	97.3	97.4	7.4	7.4	7.4	7.4	37.2	37.1	37.2		37.1				
					B	0.8	231.0	19.7	30.4	30.4	8.0	8.0	97.4	97.4	7.4	7.4	7.4	7.4	32.3	32.3	36.9		37.1				
						1.0	156.0	20.1	28.8	28.8	8.0	8.0	93.7	93.7	7.2	7.2	7.2	7.2	6.2	6.2	10.4		10.6				
						1.1	166.0	20.1	28.8	28.8	8.0	8.0	93.7	93.7	7.2	7.2	7.2	7.2	6.2	6.2	10.8		10.6				
E6	Fine	Rough	03:26	6.8	M	0.9	156.0	20.1	20.1	29.3	29.3	8.0	8.0	93.3	93.3	7.1	7.1	7.1	7.1	10.6	10.6	10.0	11.8	11.6			
						1.0	162.0	20.1	29.3	29.3	8.0	8.0	93.3	93.3	7.1	7.1	7.1	7.1	10.7	10.6	11.7		11.8				
						0.7	153.0	20.1	29.5	29.5	8.0	8.0	93.5	93.5	7.1	7.1	7.1	7.1	13.1	13.1	12.5		12.4				
					B	0.8	166.0	20.1	29.5	29.5	8.0	8.0	93.5	93.5	7.1	7.1	7.1	7.1	13.0	13.1	12.2		12.4				
						0.6	200.0	20.3	28.8	28.8	8.0	8.0	92.6	92.6	7.1	7.1	7.1	7.1	4.4	4.4	4.1		4.0				
						0.6	216.0	20.3	28.8	28.8	8.0	8.0	92.6	92.6	7.1	7.1	7.1	7.1	4.4	4.4	3.9		4.0				
E7A	Fine	Rough	03:08	5.2	S	0.4	189.0	20.3	20.3	29.1	29.1	8.0	8.0	93.5	93.6	7.1	7.1	7.1	7.1	7.1	7.3	5.8	5.8	4.8			
						0.4	194.0	20.3	29.1	29.1	8.0	8.0	93.7	93.6	7.1	7.1	7.1	7.1	7.5	7.3	5.4		5.6				
						0.6	200.0	20.3	28.8	28.8	8.0	8.0	92.6	92.6	7.1	7.1	7.1	7.1	4.4	4.4	4.1		4.0				
					B	0.4	189.0	20.3	29.1	29.1	8.0	8.0	93.5	93.6	7.1	7.1	7.1	7.1	7.1	7.3	7.1		7.3			5.8	5.6
						0.4	194.0	20.3	29.1	29.1	8.0	8.0	93.7	93.6	7.1	7.1	7.1	7.1	7.5	7.3	5.4		5.6				
						0.6	216.0	20.3	28.8	28.8	8.0	8.0	92.6	92.6	7.1	7.1	7.1	7.1	4.4	4.4	3.9		4.0				
F1	Cloudy	Moderate	03:44	19.3	S	0.5	208.2	20.0	20.0	32.4	32.4	8.3	8.3	106.1	106.1	8.0	8.0	8.0	8.0	1.6	1.6	2.4	2.2	4.7			
						0.9	82.3	20.0	32.4	32.4	8.3	8.3	106.1	106.1	8.0	8.0	8.0	8.0	1.5	1.6	2.1		2.2				
						0.6	121.2	20.1	32.4	32.4	8.3	8.3	105.5	105.5	7.9	7.9	7.9	7.9	2.1	2.0	5.0		5.1				
					M	1.0	280.4	20.1	32.4	32.4	8.3	8.3	105.5	105.5	7.9	7.9	7.9	7.9	1.9	2.0	5.1		5.1				
						1.2	128.5	20.1	32.4	32.4	8.3	8.3	105.0	105.0	7.9	7.9	7.9	7.9	3.5	3.6	6.6		6.8				
						1.0	146.3	20.1	32.4	32.4	8.3	8.3	104.9	105.0	7.9	7.9	7.9	7.9	3.6	3.6	6.9		6.8				
F2	Cloudy	Moderate	03:12	19.0	S	0.4	304.1	20.0	20.0	32.5	32.5	8.3	8.3	104.5	104.5	7.9	7.9	7.9	7.9	0.8	0.8	0.9	3.7	4.7			
						0.2	345.4	20.0	32.5	32.5	8.3	8.3	104.5	104.5	7.9	7.9	7.9	7.9	0.8	0.8	3.1		3.4				
						0.8	193.1	20.0	32.5	32.5	8.3	8.3	103.9	103.9	7.8	7.8	7.8	7.8	0.8	0.9	4.1		4.0				
					M	0.4	130.7	20.0	32.5	32.5	8.3	8.3	103.9	103.9	7.8	7.8	7.8	7.8	0.9	0.9	3.9		4.0				
						2.0	164.2	20.0	32.5	32.5	8.3	8.3	103.5	103.5	7.8	7.8	7.8	7.8	1.0	1.0	6.9		6.7				
						0.9	126.1	20.0	32.5	32.5	8.3	8.3	103.4	103.5	7.8	7.8	7.8	7.8	1.0	1.0	6.5		6.7				

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		Value	Average	DA*					
F3	Cloudy	Moderate	02:22	17.3	S	0.7	117.7	20.0	20.0	32.4	32.4	8.3	8.3	106.1	106.1	8.0	8.0	7.9	0.8	0.9	0.9	3.8	4.0	5.3	<0.001							
						0.7	117.7	20.0		32.4		8.3		106.1		8.0			0.8						4.2	<0.001						
						0.4	121.8	20.0		32.4		8.3		105.5		7.9			0.8						5.5	<0.001						
					M	0.5	162.7	20.0	32.4	32.4	8.3	8.3	105.6	105.6	7.9	7.9	7.9	0.8	0.8	5.2	5.4	<0.001										
						0.2	315.9	20.0	32.4	32.4	8.3	8.3	104.9	104.9	7.9	7.9	7.9	1.0	1.1	6.5	6.6	<0.001										
						0.2	315.9	20.0	32.4	32.4	8.3	8.3	104.8	104.8	7.9	7.9	7.9	1.1	1.1	6.7	6.6	<0.001										
F4	Cloudy	Moderate	01:23	14.2	S	0.3	201.1	20.3	20.3	32.1	32.1	8.2	8.2	104.0	104.1	7.8	7.8	7.8	2.2	2.2	3.1	6.0	6.2	7.5	6.4	<0.001						
						0.3	201.1	20.3		32.1		8.2		104.1		7.8			2.2			7.9			7.6	7.2	8.5	8.7	<0.001			
						0.9	36.5	20.3		32.1		8.2		103.0		103.2			7.7			7.7			7.2	7.2	7.2	8.9	8.9	<0.001		
					M	0.9	36.5	20.3	32.1	32.1	8.2	8.2	103.3	103.3	7.7	7.7	7.7	4.4	4.7	5.0	36.3	36.3	39.0	60.1	60.5	61.9	60.9	<0.001				
						0.4	35.5	20.4	32.2	32.2	8.2	8.2	101.7	101.5	7.6	7.6	7.6	4.4	4.7	5.0	36.3	36.3	39.0	60.9	60.5	61.9	60.9	<0.001				
						0.3	292.9	20.4	32.2	32.2	8.2	8.2	101.2	101.5	7.6	7.6	7.6	5.0	4.7	5.0	36.3	36.3	39.0	60.1	60.5	61.9	60.9	<0.001				
F5	Fine	Rough	03:40	5.1	S	0.1	94.0	19.7	19.7	30.9	30.9	8.0	8.0	98.5	98.5	7.5	7.5	7.5	36.3	36.3	39.0	60.1	60.5	61.9	60.9	<0.001						
						0.1	101.0	19.7		30.9		8.0		98.5		7.5			36.3			62.7			63.3	<0.001						
						0.1	77.0	19.7		30.9		8.0		98.6		7.5			41.8			41.8			63.8	63.3	<0.001					
					B	0.1	77.0	19.7	30.9	30.9	8.1	8.0	98.6	98.6	7.5	7.5	7.5	41.8	41.8	41.8	63.8	63.3	39.0	60.1	60.5	61.9	60.9	<0.001				
						0.3	145.0	20.0	30.2	30.2	8.0	8.0	93.1	93.1	7.1	7.1	7.1	4.4	4.4	4.4	36.3	36.3	39.0	60.1	60.5	61.9	60.9	<0.001				
						0.3	152.0	20.0	30.2	30.2	8.0	8.0	93.1	93.1	7.1	7.1	7.1	4.4	4.4	4.4	36.3	36.3	39.0	60.1	60.5	61.9	60.9	<0.001				
F6	Fine	Rough	01:27	13.8	M	0.4	133.0	20.0	20.0	30.5	30.5	8.0	8.0	94.9	94.9	7.2	7.2	7.2	8.7	8.6	11.8	9.7	9.6	9.6	9.5	<0.001						
						0.4	141.0	20.0		30.5		8.0		94.9		7.2			8.7			9.5			13.2	12.9	<0.001					
						0.4	112.0	19.8		30.8		30.8		8.0		8.0			97.7			97.7			7.4	7.4	7.4	22.2	22.4	22.6	13.2	12.9
					B	0.5	112.0	19.8	30.8	30.8	8.0	8.0	97.7	97.7	7.4	7.4	7.4	22.2	22.4	22.6	13.2	12.9	<0.001									
						0.5	235.3	20.3	32.4	32.4	8.3	8.3	106.2	106.2	7.9	7.9	7.9	3.5	3.4	3.5	8.4	8.4	4.0	8.4	8.1	7.5	8.4	<0.001				
						0.0	198.4	20.3	32.4	32.4	8.3	8.3	106.1	106.1	7.9	7.9	7.9	3.2	3.4	3.2	8.3	8.4	4.0	8.3	8.1	7.5	8.4	<0.001				
IM1	Cloudy	Moderate	04:12	9.0	M	0.1	37.0	20.3	20.3	32.4	32.4	8.3	8.3	106.0	106.0	7.9	7.9	7.9	4.7	4.4	4.0	8.2	8.1	7.5	8.0	<0.001						
						0.5	191.0	20.3		32.4		8.3		106.0		7.9			4.1			8.0			6.2	<0.001						
						0.9	184.7	20.2		32.4		8.3		106.2		7.9			4.4			5.8			6.0	<0.001						
					B	0.6	317.3	20.2	32.4	32.4	8.3	8.3	105.8	106.0	7.9	7.9	7.9	3.9	4.2	3.9	6.2	6.0	<0.001									
						1.4	178.9	20.3	31.8	31.8	8.2	8.2	95.1	95.2	7.1	7.1	7.1	6.8	6.3	6.8	6.4	11.6	<0.001									
						1.4	178.9	20.3	31.8	31.8	8.2	8.2	95.2	95.2	7.1	7.1	7.1	5.8	6.3	5.8	6.3	11.6	<0.001									
IM2	Cloudy	Moderate	04:40	10.3	M	0.5	204.9	20.3	20.3	31.9	31.8	8.2	8.2	95.0	95.0	7.1	7.1	7.1	10.3	9.6	10.9	15.8	16.1	16.1	16.4	<0.001						
						1.1	183.6	20.3		31.8		31.8		8.2		8.2			95.0			95.0			7.1	7.1	7.1	8.9	9.6	16.4	16.1	<0.001
						0.9	190.1	20.3		31.8		31.8		8.2		8.2			94.9			94.9			7.1	7.1	7.1	16.2	20.5	16.2	20.4	20.5
					B	0.6	135.6	20.3	31.9	31.8	8.2	8.2	94.8	94.9	7.1	7.1	7.1	17.2	16.7	17.2	20.4	20.5	<0.001									
						0.2	108.4	20.2	32.2	32.2	8.0	8.0	104.7	104.3	7.8	7.8	7.8	3.9	4.0	3.9	6.9	6.7	<0.001									
						0.8	260.4	20.2	32.2	32.2	8.1	8.0	103.9	104.3	7.8	7.8	7.8	4.1	4.0	4.1	6.5	6.7	<0.001									
IM3	Cloudy	Moderate	00:06	15.3	M	0.5	156.2	20.2	20.2	32.2	32.2	8.1	8.1	106.2	106.2	8.0	8.0	7.9	2.1	2.3	3.0	6.7	7.0	7.4	7.3	<0.001						
						0.5	156.2	20.2		32.2		8.1		106.1		8.0			2.4			7.3			8.5	<0.001						
						0.4	265.5	20.1		32.3		32.3		8.1		8.1			105.9			106.0			7.9	8.0	8.0	2.8	2.8	2.8	8.3	8.5
					B	0.5	330.6	20.1	32.3	32.3	8.1	8.1	106.1	106.0	8.0	8.0	8.0	2.8	2.8	2.8	8.3	8.5	<0.001									
						0.6	280.0	20.3	32.1	32.1	8.2	8.2	104.5	104.5	7.8	7.8	7.8	2.8	2.8	2.8	5.7	5.5	<0.001									
						0.8	284.4	20.3	32.1	32.1	8.2	8.2	104.5	104.5	7.8	7.8	7.8	2.8	2.8	2.8	5.3	5.5	<0.001									
IM4	Cloudy	Moderate	00:29	17.3	M	0.8	102.9	20.2	20.2	32.2	32.2	8.2	8.2	106.9	106.9	8.0	8.0	8.0	3.0	3.0	3.1	6.7	6.9	6.9	7.1	<0.001						
						0.8	102.9	20.2		32.2		8.2		106.8		8.0			3.0			7.1			8.3	8.3	<0.001					
						0.5	235.6	20.2		32.3		32.3		8.2		8.2			106.2			106.3			8.0	8.0	8.0	3.5	3.4	3.5	8.3	8.3
					B	0.5	235.6	20.2	32.3	32.3	8.2	8.2	106.4	106.3	8.0	8.0	8.0	3.3	3.4	3.3	8.2	8.3	<0.001									
						0.4	161.0	20.2	32.2	32.2	8.2	8.2	107.0	107.0	8.0	8.0	8.0	2.4	2.4	2.4	6.5	6.4	<0.001									
						0.4	161.0	20.2	32.2	32.2	8.2	8.2	106.9	107.0	8.0	8.0	8.0	2.4	2.4	2.4	6.2	6.4	<0.001									
IM5	Cloudy	Moderate	01:56	15.1	S	0.9	112.9	20.2	20.2	32.2	32.2	8.2	8.2	106.7	106.7	8.0	8.0	8.0	2.6	2.5	5.1	10.0	9.8	10.6	9.6	<0.001						
						1.4	11.0	20.2		32.2		8.2		106.7		8.0			2.4			9.6			15.4	15.7	<0.001					
						1.2	134.0	20.2		32.3		32.3		8.3		8.3			106.2			106.2			8.0	8.0	8.0	9.8	10.3	9.8	15.4	15.7
					B	0.9	122.4	20.2	32.3	32.3	8.3	8.3	106.2	106.2	8.0	8.0	8.0	10.8	10.3	10.8	15.4	15.7	<0.001									
						0.4	161.0	20.2	32.2	32.2	8.2	8.2	107.0	107.0	8.0	8.0	8.0	2.4	2.4	2.4	6.5	6.4	<0.001									
						0.4	161.0	20.2	32.2	32.2	8.2	8.2	106.9	107.0	8.0	8.0	8.0	2.4	2.4	2.4	6.2	6.4	<0.001									

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*		
IM6	Cloudy	Moderate	02:11	16.2	S	0.2	195.0	20.0	20.0	32.3	32.3	8.3	8.3	107.3	107.3	8.1	8.1	8.0	1.2	1.2	1.5	3.6	3.4	3.9	<0.001		
						0.9	245.7	20.0	20.0	32.3	32.3	8.3	8.3	107.2	107.3	8.1	8.1		1.2	1.2		3.2	3.4		<0.001		
						0.3	287.4	20.0	20.0	32.4	32.4	8.3	8.3	106.7	106.8	8.0	8.0		1.4	1.3		3.6	3.9		<0.001		
					M	1.2	149.6	20.0	20.0	32.4	32.4	8.3	8.3	106.9	106.8	8.0	8.0	1.2	1.3	7.9	1.7	1.9	3.7	4.1	3.9	3.9	<0.001
						0.1	285.7	20.0	20.0	32.4	32.4	8.3	8.3	105.7	105.7	7.9	7.9	1.7	1.9		4.3	4.4		<0.001			
						0.6	270.0	20.0	20.0	32.4	32.4	8.3	8.3	105.7	105.7	7.9	7.9	2.0	1.9		4.4	4.4		0.007			
IM7	Cloudy	Rough	01:37	15.2	S	0.2	113.0	19.6	19.6	33.6	33.6	8.3	8.3	110.1	110.1	8.3	8.3	8.3	1.5	1.5	3.7	5.9	6.1	5.3	5.9		
						0.2	121.0	19.6	19.6	33.6	33.6	8.3	8.3	110.0	109.8	8.3	8.3		1.5	1.5		6.2	6.1		6.2		
						0.1	113.0	19.6	19.6	33.7	33.7	8.3	8.3	109.8	109.8	8.2	8.2		1.7	1.7		5.1	5.1		5.1		
					M	0.1	118.0	19.6	19.6	33.7	33.7	8.3	8.3	109.8	109.8	8.2	8.2	1.7	1.7	8.2	8.0	8.0	3.9	5.0	5.1	7.8	6.2
						0.2	95.0	19.6	19.6	33.7	33.7	8.2	8.2	108.8	108.8	8.2	8.2	8.0	8.0		4.6	4.8		4.6			
						0.2	104.0	19.6	19.6	33.7	33.7	8.2	8.2	108.8	108.8	8.2	8.2	8.0	8.0		4.9	4.8		4.9			
IM8	Cloudy	Rough	01:47	14.1	S	0.1	44.0	19.6	19.6	33.7	33.7	8.3	8.3	109.9	109.9	8.3	8.3	8.2	1.5	1.5	3.9	5.8	6.0	7.8	5.8		
						0.1	48.0	19.6	19.6	33.7	33.7	8.3	8.3	109.9	109.9	8.3	8.3		1.5	1.5		6.2	6.0		6.2		
						0.1	79.0	19.6	19.6	33.7	33.7	8.3	8.3	109.7	109.7	8.2	8.2		1.4	1.4		7.9	8.2		7.9		
					M	0.1	82.0	19.6	19.6	33.7	33.7	8.3	8.3	109.7	109.7	8.2	8.2	1.4	1.4	8.1	8.8	8.7	5.1	8.4	8.2	6.1	8.4
						0.1	28.0	19.6	19.6	33.7	33.7	8.2	8.2	108.0	108.0	8.1	8.1	8.8	9.4		9.5	9.4		9.5			
						0.1	28.0	19.6	19.6	33.7	33.7	8.2	8.2	107.9	108.0	8.1	8.1	8.5	8.7		9.2	9.4		9.2			
IM9	Cloudy	Rough	02:13	15.2	S	0.6	160.0	19.6	19.6	33.7	33.7	8.3	8.3	109.0	109.0	8.2	8.2	8.2	2.6	2.5	5.1	5.1	4.9	6.1	5.1		
						0.6	165.0	19.6	19.6	33.7	33.7	8.3	8.3	109.0	109.0	8.2	8.2		2.5	2.5		4.7	4.9		4.7		
						0.4	140.0	19.6	19.6	33.7	33.7	8.3	8.3	108.2	108.2	8.1	8.1		5.2	5.3		6.5	6.6		6.5		
					M	0.5	145.0	19.6	19.6	33.7	33.7	8.3	8.3	108.2	108.2	8.1	8.1	5.5	5.3	8.0	7.6	7.5	47.0	6.7	6.6	70.6	6.7
						0.4	122.0	19.6	19.6	33.7	33.7	8.3	8.3	106.6	106.6	8.0	8.0	7.6	7.5		6.9	6.8		6.9			
						0.4	130.0	19.6	19.6	33.7	33.7	8.3	8.3	106.5	106.6	8.0	8.0	7.5	7.5		6.7	6.8		6.7			
IM10	Cloudy	Rough	03:07	8.8	S	0.3	66.0	19.9	19.9	33.5	33.5	8.2	8.2	105.5	105.5	7.9	7.9	7.9	25.8	26.0	51.8	44.3	43.8	42.0	44.3		
						0.4	71.0	19.9	19.9	33.5	33.5	8.2	8.2	105.5	105.5	7.9	7.9		26.1	26.0		43.2	43.8		43.2		
						0.3	55.0	19.9	19.9	33.5	33.5	8.2	8.2	105.4	105.4	7.9	7.9		50.7	50.7		41.6	42.0		41.6		
					M	0.3	58.0	19.9	19.9	33.5	33.5	8.2	8.2	105.4	105.4	7.9	7.9	50.7	50.7	7.9	63.2	64.3	36.5	39.7	40.2	77.9	39.7
						0.4	37.0	19.9	19.9	33.5	33.5	8.2	8.2	105.3	105.3	7.9	7.9	65.3	64.3		40.6	40.2		40.6			
						0.4	37.0	19.9	19.9	33.5	33.5	8.2	8.2	105.2	105.3	7.9	7.9	65.3	64.3		40.6	40.2		40.6			
IM11A	Cloudy	Rough	03:23	5.4	S	0.3	108.0	19.8	19.8	33.4	33.4	8.2	8.2	103.5	103.5	7.8	7.8	7.8	44.3	46.7	51.8	69.9	69.6	70.6	69.9		
						0.3	112.0	19.8	19.8	33.4	33.4	8.2	8.2	103.5	103.5	7.8	7.8		49.1	46.7		69.3	69.6		69.3		
						0.4	56.0	19.8	19.8	33.4	33.4	8.2	8.2	103.6	103.6	7.8	7.8		55.3	56.9		71.1	71.6		71.1		
					B	0.4	58.0	19.8	19.8	33.4	33.4	8.2	8.2	103.6	103.6	7.8	7.8	58.5	56.9	7.7	21.1	22.0	36.5	91.7	91.3	77.9	91.7
						1.4	139.0	19.7	19.7	33.4	33.4	8.2	8.2	103.3	103.3	7.8	7.8	23.0	22.0		90.8	91.3		90.8			
						1.5	145.0	19.7	19.7	33.4	33.4	8.2	8.2	103.3	103.3	7.8	7.8	23.0	22.0		90.8	91.3		90.8			
IM12	Cloudy	Rough	03:37	14.8	S	1.2	136.0	19.7	19.7	33.4	33.4	8.2	8.2	103.2	103.2	7.7	7.7	7.7	38.2	38.6	51.8	84.2	83.7	77.9	84.2		
						1.2	142.0	19.7	19.7	33.4	33.4	8.2	8.2	103.2	103.2	7.7	7.7		38.9	38.6		83.1	83.7		83.1		
						1.0	132.0	19.7	19.7	33.4	33.4	8.2	8.2	103.0	103.0	7.7	7.7		49.3	48.9		58.4	58.9		58.4		
					M	1.1	139.0	19.7	19.7	33.4	33.4	8.2	8.2	103.0	103.0	7.7	7.7	48.6	48.9	7.6	11.3	11.4	30.9	46.4	45.8	45.4	46.4
						1.3	193.0	19.7	19.7	32.8	32.8	8.2	8.2	100.8	100.8	7.6	7.6	11.3	11.4		45.2	45.8		45.2			
						1.4	198.0	19.7	19.7	32.8	32.8	8.2	8.2	100.8	100.8	7.6	7.6	11.4	11.4		46.4	45.8		46.4			
IM13	Cloudy	Rough	04:11	16.4	S	1.2	184.0	19.7	19.7	33.0	33.0	8.2	8.2	101.5	101.5	7.6	7.6	7.6	22.1	24.8	51.8	45.8	45.0	45.4	45.8		
						1.3	200.0	19.7	19.7	33.0	33.0	8.2	8.2	101.5	101.5	7.6	7.6		27.5	24.8		44.2	45.0		44.2		
						0.9	171.0	19.7	19.7	33.1	33.1	8.2	8.2	101.8	101.8	7.7	7.7		56.3	56.6		332.0^A	-		332.0^A		
					M	0.9	187.0	19.7	19.7	33.1	33.1	8.2	8.2	101.8	101.8	7.7	7.7	56.8	56.6	7.6	24.1	23.2	42.3	43.5	126.5	98.5	43.5
						1.1	204.0	19.7	19.7	32.7	32.7	8.2	8.2	100.2	100.2	7.6	7.6	22.3	23.2		123.0	126.5		123.0			
						1.2	201.0	19.7	19.7	32.7	32.7	8.2	8.2	100.2	100.2	7.6	7.6	22.3	23.2		123.0	126.5		123.0			
IM14	Cloudy	Rough	04:26	10.2	S	1.1	204.0	19.7	19.7	32.8	32.8	8.2	8.2	100.2	100.2	7.6	7.6	7.6	43.5	42.7	42.3	43.5	126.5	98.5	43.5		
						1.2	222.0	19.7	19.7	32.8	32.8	8.2	8.2	100.2	100.2	7.6	7.6		41.9	42.7		127.0	126.5		127.0		
						1.0	200.0	19.7	19.7	32.8	32.8	8.2	8.2	100.4	100.4	7.6	7.6		62.3	61.0		44.6	45.1		44.6		
					M	1.0	200.0	19.7	19.7	32.8	32.8	8.2	8.2	100.4	100.4	7.6	7.6	62.3	61.0	7.6	59.7	61.0	42.3	45.5	45.1	98.5	45.5
						1.0	200.0	19.7	19.7	32.8	32.8	8.2	8.2	100.5	100.5	7.6	7.6	59.7	61.0		45.5	45.1		45.5			
						1.0	200.0	19.7	19.7	32.8	32.8	8.2	8.2	100.5	100.5	7.6	7.6	59.7	61.0		45.5	45.1		45.5			

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	
IM15	Fine	Rough	04:24	6.2	S	0.4	180.0	19.7	19.7	30.9	30.9	8.1	8.1	98.1	98.1	7.5	7.5	7.5	13.8	13.8	20.8	33.6	33.2	35.4	
						0.4	193.0	19.7		30.9	30.9	8.1	8.1	98.1	98.1	7.5	7.5		13.9			32.8			
						0.4	179.0	19.7		31.0	31.0	8.1	8.0	98.1	98.2	7.5	7.5		20.8			35.5			
					M	0.4	190.0	19.7	19.7	31.0	31.0	8.0	8.0	98.2	98.2	7.5	7.5	20.8	36.0	35.8					
						B	0.3	184.0	19.7	19.7	30.9	30.9	8.0	8.0	98.3	98.4	7.5	7.5	27.8	37.6	37.4				
							0.4	190.0	19.7	19.7	30.9	30.9	8.0	8.0	98.4	98.4	7.5	7.5	27.8	37.1					
IM16A	Fine	Rough	04:05	6.4	S	0.9	189.0	19.8	19.8	29.9	29.9	8.0	8.0	96.0	96.0	7.4	7.4	7.3	16.5	16.6	23.9	29.8	29.6	32.4	
						0.9	192.0	19.8		29.9	29.9	8.0	8.0	96.0	96.0	7.4	7.4		16.7			29.4			
						0.7	191.0	19.8		19.8	30.1	30.1	8.0	8.0	96.1	96.1	7.3		7.3			21.3			32.6
					M	0.8	205.0	19.8	19.8	30.1	30.1	8.0	8.0	96.1	96.1	7.4	7.4	21.3	32.7						
						B	0.6	192.0	19.8	19.8	30.2	30.2	8.0	8.0	96.3	96.3	7.4	7.4	33.8	34.9	35.0				
							0.6	203.0	19.8	19.8	30.2	30.2	8.0	8.0	96.3	96.3	7.4	7.4	33.8	35.1					
IM17	Fine	Rough	03:48	5.3	S	0.7	164.0	19.8	19.8	29.5	29.5	8.0	8.0	95.3	95.3	7.3	7.3	7.3	20.1	20.1	23.3	32.6	32.9	34.8	
						0.7	173.0	19.8		29.5	29.5	8.0	8.0	95.3	95.3	7.3	7.3		20.1			33.1			
						0.6	167.0	19.8		19.8	29.5	29.5	8.0	8.0	95.3	95.3	7.3		7.3			26.4			36.4
					B	0.7	178.0	19.8	19.8	29.5	29.5	8.0	8.0	95.3	95.3	7.3	7.3	26.6	37.1						
						S	0.6	149.0	19.8	19.8	29.7	29.7	8.0	8.0	95.4	95.4	7.3	7.3	8.0	11.0	10.8				
							0.6	161.0	19.8	19.8	29.7	29.7	8.0	8.0	95.4	95.4	7.3	7.3	8.0	10.6					
M	0.5	147.0	19.8	19.8	30.0	30.0	8.0	8.0	95.1	95.1	7.3	7.3	9.0	12.8	12.6										
	0.5	153.0	19.8	19.8	30.0	30.0	8.0	8.0	95.1	95.1	7.3	7.3	9.0	12.4											
	B	0.3	145.0	20.1	20.1	30.5	30.5	8.0	8.0	91.6	91.7	7.0	7.0	10.8		14.2	14.5								
0.3		158.0	20.1	20.1	30.5	30.5	8.0	8.0	91.7	91.7	7.0	7.0	10.7	14.7											
IM19	Fine	Rough	02:14	15.2	S	0.6	177.0	20.4	20.4	29.9	29.9	8.0	8.0	92.5	92.5	7.0	7.0	7.0	4.4	4.4	6.6	9.0	9.0	9.5	
						0.6	183.0	20.4		29.9	29.9	8.0	8.0	92.5	92.5	7.0	7.0		4.4			9.0			
						0.6	181.0	20.3		20.3	29.9	29.9	8.0	8.0	92.2	92.2	7.0		7.0			4.5			9.1
					M	0.6	190.0	20.3	20.3	29.9	29.9	8.0	8.0	92.2	92.2	7.0	7.0	4.6	9.3	9.2					
						B	0.5	173.0	20.2	20.2	30.0	30.0	8.0	8.0	92.2	92.2	7.0	7.0	10.7		10.2				
							0.5	185.0	20.2	20.2	30.0	30.0	8.0	8.0	92.2	92.2	7.0	7.0	10.9		10.5				
S	0.6	240.0	20.4	20.4	28.7	28.7	8.0	8.0	93.1	93.0	7.1	7.1	7.1	7.4	10.2	12.6	12.5	13.1							
	0.7	262.0	20.4	20.4	28.7	28.7	8.0	8.0	92.9	92.9	7.1	7.1	7.7	12.3											
	0.4	235.0	20.5	20.5	29.1	29.1	8.0	8.0	92.5	92.5	7.0	7.0	13.0	13.6											
B	0.5	237.0	20.5	20.5	29.2	29.1	8.0	8.0	92.5	92.5	7.0	7.0	13.1	13.9											
	S	0.5	211.0	20.7	20.7	29.3	29.3	8.0	8.0	92.4	92.4	7.0	7.0	9.1	15.8	10.5	16.0		15.9						
		0.6	220.0	20.7	20.7	29.3	29.3	8.0	8.0	92.4	92.4	7.0	7.0	9.2	16.0										
B	0.4	218.0	20.6	20.6	29.3	29.3	8.0	8.0	92.8	92.8	7.0	7.0	11.9	18.2	18.4										
	S	0.4	238.0	20.6	20.6	29.3	29.3	8.0	8.0	92.8	92.8	7.0	7.0	11.8		18.6									
		B	0.5	217.0	20.5	20.5	29.5	29.5	8.0	8.0	92.2	92.2	7.0	7.0		6.5	9.2	9.0							
0.6	231.0		20.5	20.5	29.5	29.5	8.0	8.0	92.2	92.2	7.0	7.0	6.5	8.7											
IM22A	Fine	Rough	02:29	5.7	S	0.3	213.0	20.4	20.4	29.6	29.6	8.0	8.0	92.7	92.7	7.0	7.0	7.0	8.8	8.8	7.6	12.3	12.6	10.8	
						0.6	231.0	20.5		20.5	29.5	29.5	8.0	8.0	92.2	92.2	7.0		7.0			6.5			8.7
						B	0.3	213.0		20.4	20.4	29.6	29.6	8.0	8.0	92.7	92.7		7.0			7.0			8.8
0.3	216.0	20.4	20.4	29.6	29.6		8.0	8.0	92.9	92.8	7.0	7.0	8.8	12.8											

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; S: 1 m above the seabed
 ^ denotes outlier value in the dataset, which is excluded in the data analysis

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
E1	Fine	Moderate	07:11	7.3	S	1.1	173.5	20.4	20.4	31.6	31.6	7.9	7.9	91.0	91.0	6.8	6.8	6.8	6.8	7.5	7.6	8.0	10.8	10.7	11.7
						0.0	324.2	20.4		31.6	31.6	7.9		91.0	91.0	6.8		7.7		10.5					
						0.6	206.4	20.4		31.6	31.6	7.9		90.9	90.9	6.8		7.2		11.4					
					M	0.8	189.1	20.4	31.6	31.6	7.9	90.9	90.9	6.8	7.2	11.9	11.7								
						B	0.5	191.9	20.4	31.6	31.6	7.9	90.7	90.7	6.8	6.8	12.7	12.8							
							0.9	256.0	20.4	31.6	31.6	7.9	90.7	90.7	6.8	6.8	12.9								
E2	Fine	Moderate	10:41	8.2	S	0.3	298.6	20.4	20.4	32.1	32.1	8.1	8.1	98.2	98.5	7.3	7.4	7.4	7.3	4.5	4.5	5.8	8.9	9.1	12.0
						0.4	278.8	20.4		32.1	32.1	8.1		98.7	98.5	7.4		4.4		9.3					
						0.3	66.0	20.4		32.1	32.1	8.1		97.2	97.3	7.3		5.3		10.7					
					M	0.2	3.4	20.4	32.1	32.1	8.1	97.4	97.3	7.3	5.0	10.2	10.5								
						0.3	9.7	20.3	32.2	32.2	8.1	96.2	96.0	7.2	7.2	16.1	16.4								
						0.3	9.7	20.3	32.2	32.2	8.1	95.8	96.0	7.2	7.2	16.7									
E3	Cloudy	Rough	09:26	16.2	S	0.8	316.0	19.6	19.6	33.2	33.2	8.2	8.2	101.9	101.9	7.7	7.7	7.7	7.7	9.0	9.0	19.2	30.0	30.4	34.2
						0.8	320.0	19.6		33.2	33.2	8.2		101.9	101.9	7.7		9.0		30.7					
						0.7	323.0	19.6		33.2	33.2	8.2		101.4	101.4	7.6		11.0		33.9					
					M	0.8	334.0	19.6	33.2	33.2	8.2	101.4	101.4	7.6	11.2	34.7	34.3								
						0.6	318.0	19.6	33.2	33.2	8.2	101.5	101.6	7.6	7.6	37.6	38.1								
						0.6	324.0	19.6	33.2	33.2	8.2	101.6	101.6	7.7	7.6	38.5									
E4	Cloudy	Moderate	07:53	11.2	S	0.2	123.0	19.7	19.7	31.2	31.3	8.1	8.1	97.5	97.5	7.4	7.4	7.4	7.4	20.0	20.0	20.9	48.4	48.8	37.5
						0.2	132.0	19.7		31.3	31.3	8.1		97.5	97.5	7.4		20.0		49.2					
						0.1	132.0	19.7		31.6	31.6	8.1		97.6	97.6	7.4		22.7		32.9					
					M	0.1	136.0	19.7	31.6	31.6	8.1	97.6	97.6	7.4	19.0	33.5	33.2								
						0.1	187.0	19.7	31.8	31.8	8.1	98.4	98.5	7.5	7.5	30.2	30.4								
						0.1	192.0	19.7	31.8	31.8	8.1	98.6	98.5	7.5	7.5	30.6									
E5	Cloudy	Rough	07:53	5.1	S	0.6	252.0	20.0	20.0	29.5	29.5	8.0	8.0	93.4	93.4	7.1	7.1	7.1	7.1	14.1	14.0	11.8	55.4	55.8	60.9
						0.7	272.0	20.0		29.5	29.5	8.0		93.4	93.4	7.1		14.0		56.2					
						0.5	243.0	20.0		29.5	29.5	8.0		94.1	94.2	7.2		9.5		65.6					
					B	0.5	245.0	20.0	29.5	29.5	8.0	94.2	94.2	7.2	9.6	66.4	66.0								
						S	0.4	28.0	20.2	27.5	27.5	8.0	92.6	92.6	7.1	7.1	10.7	10.9							
							0.4	29.0	20.2	27.5	27.5	8.0	92.6	92.6	7.1	7.1	11.0								
E6	Cloudy	Rough	08:53	4.7	B	0.3	29.0	20.3	20.3	27.8	27.8	8.0	8.0	92.1	92.2	7.1	7.1	7.1	7.1	9.0	8.9	8.1	12.8	12.6	11.7
						0.3	31.0	20.3		27.8	27.8	8.0		92.2	92.2	7.1		8.9		12.3					
						0.9	66.0	20.1		27.7	27.7	8.0		92.3	92.3	7.1		6.6		15.4					
					S	0.9	67.0	20.1	27.7	27.7	8.0	92.3	92.3	7.1	6.6	14.7	15.1								
						0.5	72.0	20.3	28.6	28.6	8.0	92.1	92.2	7.0	7.0	54.9		54.5							
						0.6	76.0	20.3	28.6	28.6	8.0	92.2	92.2	7.1	7.0	54.1									
E7A	Cloudy	Rough	09:11	4.3	B	0.6	76.0	20.3	20.3	28.6	28.6	8.0	8.0	92.2	92.2	7.1	7.1	7.1	7.1	16.9	17.2	11.9	15.4	15.1	34.8
						0.5	72.0	20.3		28.6	28.6	8.0		92.1	92.2	7.0		17.4		54.9					
						0.6	76.0	20.3		28.6	28.6	8.0		92.2	92.2	7.1		16.9		54.1					
					S	0.8	1.9	20.2	20.2	32.3	32.3	8.1	103.8	103.9	7.8	7.8	1.9	2.1							
						1.5	267.9	20.2	32.3	32.3	8.1	103.9	103.9	7.8	2.2	4.4									
						0.3	262.9	20.1	32.3	32.3	8.1	103.5	103.4	7.8	2.3	4.9									
F1	Fine	Moderate	08:17	19.1	M	0.3	262.9	20.1	20.1	32.3	32.3	8.1	8.1	103.3	103.4	7.7	7.8	7.8	7.8	1.9	2.1	2.3	5.3	5.1	5.1
						0.3	262.9	20.1		32.3	32.3	8.1		103.3	103.4	7.7		1.9		5.6					
						0.3	346.6	20.0		32.4	32.4	8.1		103.0	103.0	7.7		2.9		6.0					
					B	0.5	81.8	20.0	32.4	32.4	8.1	102.9	103.0	7.7	7.7	2.9	2.9								
						0.6	349.2	20.1	32.2	32.2	8.1	102.5	102.6	7.7	7.7	1.6		1.6							
						0.6	349.2	20.1	32.2	32.2	8.1	102.6	102.6	7.7	7.7	1.6									
F2	Fine	Moderate	08:45	18.1	S	0.6	349.2	20.1	20.1	32.2	32.2	8.1	8.1	102.5	102.6	7.7	7.7		7.7	7.7	1.6	1.6	1.7	2.4	2.3
						0.6	280.9	20.1		32.2	32.2	8.1		102.1	102.1	7.7		1.7	3.5						
						0.6	310.1	20.1		32.2	32.2	8.1		102.0	102.1	7.7		1.5	3.2						
					M	1.2	267.9	20.0	32.5	32.5	8.2	101.7	101.7	7.6	7.6	4.7	4.7								
						0.3	173.3	20.0	32.5	32.5	8.2	101.7	101.7	7.6	7.6	4.6									
						0.3	173.3	20.0	32.5	32.5	8.2	101.7	101.7	7.6	7.6	4.6									

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	
F3	Fine	Moderate	09:21	16.3	S	0.8	272.7	20.0	20.0	32.4	32.4	8.2	8.2	106.5	106.5	8.0	8.0	8.0	2.9	3.0	5.1	5.3	<0.001
						0.9	200.7	20.0		32.4		8.2		106.5		8.0			3.1		5.4		0.002
						0.8	316.4	20.0		32.4		8.2		105.7		7.9			3.6		6.1		<0.001
					M	0.3	70.6	20.0	32.4	8.2	105.7	7.9	7.9	4.2	3.9	3.5	6.6	6.4	6.5	6.6	<0.001		
						0.6	66.7	20.0	32.4	8.2	105.0	7.9	7.9	3.4	3.5	7.8	8.0	<0.001					
						1.9	296.9	20.0	32.4	8.2	105.2	7.9	7.9	3.5	8.2	<0.001							
F4	Fine	Moderate	10:14	12.3	S	1.1	242.0	20.2	20.2	32.2	32.2	8.1	8.1	102.4	102.5	7.7	7.7	7.7	6.5	6.4	11.0	11.2	14.6
						0.9	248.2	20.2		32.2		8.1		102.6		7.7			6.3		11.3		
						0.6	245.3	20.2		32.3		8.1		101.9		7.6			7.6		8.0		
					M	0.8	278.9	20.2	32.3	8.1	101.9	7.6	7.6	8.3	8.0	7.7	13.3	13.4	8.5	13.3	13.4		
						1.1	298.5	20.2	32.3	8.1	101.8	7.6	7.6	10.4	11.2	7.6	19.4	19.3	8.5	19.3	14.6		
						0.1	340.3	20.2	32.3	8.1	101.7	7.6	7.6	12.0	19.2	7.6	19.2	19.3	8.5	19.3	14.6		
F5	Sunny	Rough	07:16	4.9	S	0.5	248.0	19.7	19.7	30.5	30.5	8.0	8.0	96.7	96.8	7.4	7.4	7.4	8.7	8.7	13.2	13.1	14.2
						0.6	251.0	19.7		30.5		8.0		96.8		7.4			8.7		12.9		
					B	0.4	242.0	19.7	30.7	8.0	97.2	7.4	7.4	9.9	9.9	15.2	15.4	9.3	15.2	15.4			
						0.4	263.0	19.7	30.7	8.0	97.2	7.4	7.4	9.8	9.9	15.6	15.4	9.3	15.6	15.4			
F6	Cloudy	Rough	10:48	13.8	S	0.5	318.0	20.2	20.2	29.3	29.3	8.0	8.0	92.6	92.6	7.1	7.1	7.0	10.6	10.7	18.1	18.2	20.3
						0.5	342.0	20.2		29.3		8.0		92.6		7.1			10.8		18.2		
						0.4	327.0	20.2		29.3		8.0		92.2		7.0			12.5		20.6		
					M	0.4	349.0	20.2	29.3	8.0	92.2	7.0	12.5	20.4	13.2	20.5	13.2	20.4	20.5				
						0.4	302.0	20.2	30.1	8.0	90.4	6.9	16.5	22.1	22.3	22.3	22.3	22.3					
						0.4	311.0	20.2	30.1	8.0	90.5	6.9	16.5	22.5	22.3	22.5	22.3	22.3					
IM1	Fine	Moderate	07:56	9.3	S	0.6	355.2	20.3	20.3	32.1	32.1	8.1	8.1	101.3	101.3	7.6	7.6	7.6	2.6	2.6	7.3	7.6	10.7
						0.6	355.2	20.3		32.1		8.1		101.3		7.6			2.5		7.9		
						0.6	318.0	20.3		32.1		8.1		102.2		7.7			2.8		10.8		
					M	0.4	10.4	20.3	32.1	8.1	101.5	7.6	3.1	11.4	11.1	10.7	11.1	10.7					
						0.5	227.4	20.3	32.3	8.1	104.5	7.8	4.9	13.3	13.4	13.3	13.4						
						0.5	76.9	20.3	32.3	8.1	104.6	7.8	5.1	13.5	13.4	13.5	13.4						
IM2	Fine	Moderate	07:33	10.1	S	0.8	228.4	20.3	20.3	31.8	31.8	8.0	8.0	93.2	93.1	7.0	7.0	7.0	3.9	3.8	9.9	9.7	11.8
						0.8	228.4	20.3		31.8		8.0		93.0		7.0			3.7		9.5		
						0.3	269.6	20.3		31.8		8.0		93.2		7.0			5.7		12.4		
					M	0.2	167.8	20.3	31.8	8.0	93.2	7.0	5.3	12.2	12.3	12.2	12.3						
						0.2	253.5	20.3	31.8	8.0	93.9	7.0	4.9	13.6	13.4	13.6	13.4						
						0.3	231.3	20.3	31.8	8.0	93.3	7.0	5.8	13.2	13.4	13.2	13.4						
IM3	Fine	Moderate	11:34	14.3	S	0.7	308.2	20.4	20.4	31.9	31.9	8.1	8.1	101.2	101.6	7.6	7.6	7.5	2.0	2.0	4.6	4.4	6.1
						0.7	308.2	20.4		31.9		8.1		102.0		7.6			1.9		4.2		
						0.9	78.0	20.3		31.9		8.1		99.9		7.5			2.2		5.8		
					M	1.0	117.9	20.3	31.9	8.1	99.1	7.4	2.0	6.2	6.0	6.2	6.0						
						0.8	4.6	20.2	32.3	8.1	100.9	7.6	3.7	8.0	7.9	3.7	8.0						
						0.4	199.9	20.2	32.3	8.1	101.0	7.6	3.8	7.7	7.9	3.8	7.7						
IM4	Fine	Moderate	11:10	16.1	S	0.4	244.0	20.4	20.4	31.9	31.9	8.1	8.1	101.1	101.0	7.6	7.6	7.6	2.2	2.2	4.2	4.0	7.2
						1.0	315.7	20.4		31.9		8.1		100.9		7.6			2.2		3.8		
						0.4	133.2	20.2		32.1		8.1		101.3		7.6			3.0		7.3		
					M	0.8	235.1	20.2	32.2	8.1	101.3	7.6	2.9	6.9	7.1	3.3	7.1	7.2					
						0.6	274.0	20.2	32.2	8.1	100.7	7.5	4.8	10.8	10.6	4.8	10.8						
						0.4	127.6	20.2	32.2	8.1	100.8	7.6	4.6	10.4	10.6	4.6	10.4						
IM5	Fine	Moderate	09:47	14.2	S	0.4	14.1	20.2	20.2	32.2	32.2	8.1	8.1	102.7	102.8	7.7	7.7	7.7	3.5	3.5	8.2	8.3	7.4
						0.2	279.9	20.2		32.2		8.1		102.8		7.7			3.5		8.3		
						0.9	210.8	20.2		32.2		8.1		102.0		7.6			3.7		7.3		
					M	1.4	285.7	20.2	32.2	8.1	102.1	7.6	3.3	7.8	7.6	3.3	7.8						
						0.4	280.0	20.2	32.2	8.1	101.6	7.6	4.3	6.1	6.3	4.3	6.1						
						0.3	56.9	20.2	32.2	8.1	101.4	7.6	4.4	6.4	6.3	4.4	6.4						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM6	Fine	Moderate	09:32	15.1	S	0.1	356.3	20.0	20.0	32.4	32.4	8.2	8.2	107.9	108.0	8.1	8.1	8.1	2.7	2.9	6.3	7.5	<0.001	
						0.1	356.3	20.0		32.4	32.4	8.2		108.1		8.1			3.1		6.9			
						0.4	44.5	20.0		32.4	32.4	8.2		107.0		8.0			3.4		7.4			
					M	0.3	286.3	20.0	32.4	32.4	8.2	107.0	8.0	3.9	7.6	3.7	7.5	7.6	<0.001					
						0.2	307.3	20.0	32.4	32.4	8.2	106.4	8.0	3.4	8.7	3.3	8.5	8.7	<0.001					
						0.3	302.2	20.0	32.4	32.4	8.2	106.4	8.0	3.1	8.3		8.3	0.001						
B	0.4	290.0	19.7	33.6	33.6	8.3	8.3	109.8	109.8	8.2	8.2	2.1	2.1	20.2	20.5		20.2	<0.001						
	0.4	302.0	19.7	33.6		8.3		109.7		8.2		2.1		20.8										
	0.4	304.0	19.6	33.6		8.2		107.6		8.1		2.6		25.9										
IM7	Cloudy	Rough	10:46	14.6	M	0.4	316.0	19.6	19.6	33.6	33.6	8.2	8.2	107.5	107.6	8.1	8.1	8.1	2.6	2.6	26.3	25.6	<0.001	
						0.3	311.0	19.6		33.6	33.6	8.2		106.1		8.0			3.3		30.5			
						0.4	321.0	19.6		33.6	33.6	8.2		105.9		8.0			3.4		29.6			
					B	0.4	267.0	19.6	33.6	33.6	8.3	8.3	108.3	108.3	8.1	8.1	3.0	3.0	15.6	15.4	15.6		18.1	<0.001
						0.4	268.0	19.6	33.6		8.3		108.3		8.1		3.0		15.2					
						0.5	293.0	19.6	33.6		33.6		8.3		107.1		8.1		3.5		17.8			
M	0.5	310.0	19.6	33.6	33.6	8.3	107.0	8.0	3.6	18.3	3.5	4.4	3.5	20.4	20.7	20.4								
	0.2	291.0	19.6	33.6	33.6	8.3	104.8	7.9	6.8	18.3														
	0.2	310.0	19.6	33.6	33.6	8.3	104.8	7.9	6.8	21.0														
IM8	Cloudy	Rough	10:34	12.8	S	1.0	264.0	19.6	19.6	33.6	33.6	8.3	8.3	107.2	107.2	8.1	8.1	8.1	5.4	5.5	18.1	14.6	<0.001	
						1.1	278.0	19.6		33.6	33.6	8.3		107.1		8.0			5.6		17.9			
						0.8	262.0	19.6		33.6	33.6	8.3		106.4		8.0			9.8		14.3			
					M	0.8	264.0	19.6	33.6	33.6	8.3	106.4	8.0	10.2	13.9	10.0	14.0	10.0	14.3	14.1	14.3			
						0.9	259.0	19.6	33.6	33.6	8.3	105.5	7.9	27.0	11.9									
						1.0	260.0	19.6	33.6	33.6	8.3	105.5	7.9	26.0	11.2									
IM9	Cloudy	Rough	10:03	14.4	B	0.9	259.0	19.6	19.6	33.6	33.6	8.3	8.3	105.5	105.5	7.9	7.9	7.9	27.0	26.5	11.9	11.6	<0.001	
						1.0	260.0	19.6		33.6	33.6	8.3		105.5		7.9			26.0		11.2			
						1.1	238.0	19.7		33.4	33.4	8.2		102.9		7.7			16.6		54.5			
					S	1.2	256.0	19.7	33.4	33.4	8.2	102.9	7.7	15.3	55.2	7.7	22.7	16.0	54.5	67.5	54.5			
						1.2	234.0	19.7	33.4	33.4	8.2	102.7	7.7	18.2	66.2									
						1.2	238.0	19.7	33.4	33.4	8.2	102.6	7.7	18.3	67.9									
IM10	Cloudy	Rough	09:11	8.4	M	1.1	232.0	19.7	19.7	33.4	33.4	8.2	8.2	102.6	102.6	7.7	7.7	7.7	32.6	33.8	80.2	80.6	<0.001	
						1.2	247.0	19.7		33.4	33.4	8.2		102.6		7.7			35.0		81.0			
						0.6	293.0	19.7		33.5	33.5	8.2		102.8		7.7			28.4		53.9			
					S	0.7	318.0	19.7	33.5	33.5	8.2	102.7	7.7	27.8	54.6	7.7	31.9	28.1	54.6	72.5	54.6			
						0.6	298.0	19.7	33.4	33.4	8.2	102.6	7.7	36.8	90.1									
						0.7	315.0	19.7	33.4	33.4	8.2	102.6	7.7	34.6	91.2									
IM11A	Cloudy	Rough	08:53	5.5	B	0.8	296.0	19.7	19.7	33.4	33.4	8.2	8.2	102.7	102.7	7.7	7.7	7.7	22.8	24.9	34.6	42.3	<0.001	
						0.8	309.0	19.7		33.4	33.4	8.2		102.7		7.7			27.0		34.2			
						1.0	299.0	19.8		33.4	33.4	8.2		102.8		7.7			26.4		36.6			
					M	1.1	315.0	19.8	33.4	33.4	8.2	102.8	7.7	29.5	35.7	27.9	33.7	27.9	36.6	36.2	36.6			
						1.0	299.0	19.7	33.4	33.4	8.2	102.8	7.7	46.6	57.1									
						1.1	320.0	19.7	33.4	33.4	8.2	102.8	7.7	49.9	55.5									
IM12	Cloudy	Rough	08:40	12.9	S	0.1	124.0	19.8	19.8	30.4	30.4	8.1	8.1	97.2	97.2	7.4	7.4	7.4	19.6	19.7	32.6	28.9	<0.001	
						0.1	136.0	19.8		30.4	30.4	8.1		97.2		7.4			19.8		31.8			
						0.0	298.0	19.7		31.0	31.0	8.1		97.7		7.4			23.4		29.0			
					M	0.0	305.0	19.8	31.0	31.0	8.1	97.7	7.4	24.0	28.2	23.7	25.6	23.7	28.2	28.6	28.2			
						0.3	292.0	19.7	32.2	32.2	8.1	98.8	7.5	32.0	26.2									
						0.4	312.0	19.7	32.2	32.2	8.1	98.8	7.5	35.0	25.5									
IM13	Cloudy	Rough	08:14	15.3	B	0.1	81.0	19.8	19.8	31.8	31.8	8.2	8.2	97.8	97.8	7.4	7.4	7.4	15.0	15.0	22.9	22.9	<0.001	
						0.1	87.0	19.8		31.8	31.8	8.2		97.8		7.4			15.0		22.3			
						0.1	18.0	19.8		32.1	32.1	8.2		98.1		7.4			13.4		22.3			
					S	0.1	19.0	19.8	32.1	32.1	8.2	98.2	7.4	13.4	23.0	13.4	14.5	13.4	22.7	22.9	23.0			
						0.2	13.0	19.8	32.4	32.4	8.1	99.1	7.5	14.1	23.2									
						0.2	13.0	19.8	32.4	32.4	8.1	99.2	7.5	16.1	23.8									
IM14	Cloudy	Moderate	08:05	10.2	M	0.1	18.0	19.8	19.8	32.1	32.1	8.2	8.2	98.2	98.2	7.4	7.4	7.4	13.4	13.4	22.3	22.9	<0.001	
						0.1	19.0	19.8		32.1	32.1	8.2		98.2		7.4			13.4		23.0			
						0.2	13.0	19.8		32.4	32.4	8.1		99.1		7.5			14.1		23.2			
					B	0.2	13.0	19.8	32.4	32.4	8.1	99.2	7.5	16.1	23.8	15.1	7.5	7.5	7.5	15.1	23.8			
						0.1	81.0	19.8	31.8	31.8	8.2	97.8	7.4	15.0	22.3									
						0.1	18.0	19.8	32.1	32.1	8.2	98.1	7.4	13.4	22.3									

Water Quality Monitoring Data Log Sheet

Date: 2020/01/13

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM15	Cloudy	Rough	07:40	5.2	S	0.5	251.0	20.0	20.0	29.4	29.4	8.0	8.0	93.5	93.5	7.2	7.2	7.2	12.9	12.7	13.7	44.9	45.4	51.6
						0.5	257.0	20.0	20.0	29.4	29.4	8.0	8.0	93.5	93.5	7.2	7.2	7.2	12.4	12.7	13.7	45.8	45.4	
					B	0.4	241.0	20.0	20.0	29.4	29.4	8.0	8.0	94.5	94.6	7.2	7.2	7.2	14.6	14.7	14.7	57.4	57.8	
						0.4	241.0	20.0	20.0	29.4	29.4	8.0	8.0	94.7	94.6	7.2	7.2	7.2	14.7	14.7	14.7	58.2	57.8	
IM16A	Cloudy	Rough	08:10	5.2	S	0.3	302.0	20.1	20.1	29.3	29.3	8.0	8.0	92.3	92.3	7.1	7.1	7.1	26.3	26.3	40.3	48.0	48.4	55.5
						0.3	314.0	20.1	20.1	29.3	29.3	8.0	8.0	92.3	92.3	7.1	7.1	7.1	26.3	26.3	40.3	48.8	48.4	
					B	0.2	304.0	20.1	20.1	29.3	29.3	8.0	8.0	92.4	92.4	7.1	7.1	7.1	52.8	54.3	40.3	62.2	62.7	
						0.3	332.0	20.1	20.1	29.3	29.3	8.0	8.0	92.4	92.4	7.1	7.1	7.1	55.8	54.3	40.3	63.1	62.7	
IM17	Cloudy	Rough	08:30	4.1	S	0.2	314.0	20.0	20.0	28.0	28.0	8.0	8.0	92.8	92.8	7.2	7.2	7.2	12.4	12.4	11.9	16.1	16.3	15.5
						0.2	335.0	20.0	20.0	28.0	28.0	8.0	8.0	92.8	92.8	7.2	7.2	7.2	12.4	12.4	11.9	16.4	16.3	
					B	0.2	352.0	20.0	20.0	28.0	28.0	8.0	8.0	94.0	94.2	7.2	7.3	7.3	11.5	11.5	11.5	14.6	14.8	
						0.2	12.0	20.0	20.0	28.0	28.0	8.0	8.0	94.3	94.2	7.3	7.3	7.3	11.5	11.5	11.5	15.0	14.8	
IM18	Cloudy	Rough	10:20	16.7	S	0.4	327.0	20.3	20.3	28.5	28.5	8.0	8.0	92.2	92.2	7.1	7.1	7.0	4.4	4.4	5.5	5.4	5.5	6.8
						0.4	355.0	20.3	20.3	28.5	28.5	8.0	8.0	92.2	92.2	7.1	7.1	7.0	4.4	4.4		5.5	5.6	
					M	0.4	330.0	20.2	20.2	28.6	28.6	8.0	8.0	91.4	91.4	7.0	7.0	7.0	5.9	5.9	5.5	5.9	5.9	
						0.4	338.0	20.2	20.2	28.6	28.6	8.0	8.0	91.4	91.4	7.0	7.0	7.0	5.9	5.9	5.5	5.9	5.9	
					B	0.4	337.0	20.2	20.2	28.6	28.6	8.0	8.0	91.8	91.8	7.0	7.0	7.0	6.3	6.3	5.5	6.3	6.3	
						0.4	347.0	20.2	20.2	28.6	28.6	8.0	8.0	91.8	91.8	7.0	7.0	7.0	6.3	6.3	5.5	6.3	6.3	
IM19	Cloudy	Rough	10:09	17.2	S	0.5	6.0	20.3	20.3	28.5	28.5	8.0	8.0	91.3	91.3	7.0	7.0	7.0	4.5	4.5	7.4	5.6	5.9	6.2
						0.5	6.0	20.3	20.3	28.5	28.5	8.0	8.0	91.3	91.3	7.0	7.0	7.0	4.5	4.5		7.4	6.1	
					M	0.6	348.0	20.3	20.3	28.8	28.8	8.0	8.0	91.4	91.5	7.0	7.0	7.0	4.9	4.9	7.4	6.4	6.3	
						0.7	4.0	20.3	20.3	28.8	28.8	8.0	8.0	91.5	91.5	7.0	7.0	7.0	4.9	4.9	7.4	6.2	6.3	
					B	0.7	331.0	20.4	20.4	29.3	29.3	8.0	8.0	92.7	92.8	7.0	7.0	7.0	12.1	12.9	7.4	6.3	6.4	
						0.7	357.0	20.4	20.4	29.3	29.3	8.0	8.0	92.8	92.8	7.1	7.1	7.0	13.7	12.9	7.4	6.5	6.4	
IM20A	Cloudy	Rough	09:33	3.9	S	0.5	62.0	22.0	22.0	27.8	27.8	8.0	8.0	96.7	96.7	7.2	7.2	7.2	12.9	13.0	14.8	27.9	27.5	26.3
						0.5	67.0	22.0	22.0	27.8	27.8	8.0	8.0	96.7	96.7	7.2	7.2	7.2	13.0	13.0		14.8	27.0	
					B	0.4	67.0	20.6	20.6	27.9	27.9	8.0	8.0	92.7	92.8	7.1	7.1	7.1	16.7	16.7	14.8	25.3	25.1	
						0.5	70.0	20.6	20.6	27.9	27.9	8.0	8.0	92.8	92.8	7.1	7.1	7.1	16.6	16.7	14.8	24.8	25.1	
IM21A	Cloudy	Rough	09:44	5.3	S	0.3	15.0	22.0	22.0	28.7	28.7	8.1	8.1	96.1	96.1	7.1	7.1	7.1	15.4	15.5	19.8	41.4	41.5	39.9
						0.3	16.0	22.0	22.0	28.7	28.7	8.1	8.1	96.1	96.1	7.1	7.1	7.1	15.6	15.5		19.8	41.5	
					B	0.3	13.0	22.0	22.0	28.7	28.7	8.1	8.1	97.1	97.2	7.2	7.2	7.2	23.6	24.1	19.8	37.9	38.4	
						0.3	13.0	22.0	22.0	28.7	28.7	8.1	8.1	97.3	97.2	7.2	7.2	7.2	24.7	24.1	19.8	38.8	38.4	
IM22A	Cloudy	Rough	09:50	4.9	S	0.3	53.0	20.4	20.4	28.9	28.9	8.0	8.0	91.6	91.6	7.0	7.0	7.0	8.1	8.1	11.9	11.0	11.2	15.0
						0.3	57.0	20.4	20.4	28.9	28.9	8.0	8.0	91.6	91.6	7.0	7.0	7.0	8.1	8.1		11.9	11.4	
					B	0.3	60.0	20.4	20.4	29.1	29.1	8.0	8.0	91.8	91.9	7.0	7.0	7.0	16.8	15.6	11.9	18.8	18.9	
						0.3	63.0	20.4	20.4	29.1	29.1	8.1	8.1	92.0	91.9	7.0	7.0	7.0	14.5	15.6	11.9	18.9	18.9	

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: 2020/01/16

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
E1	Cloudy	Moderate	01:34	9.3	S	0.4	76.6	20.4	20.4	31.6	31.6	8.0	8.0	102.5	102.5	7.7	7.7	1.7	1.6	2.0	2.0	8.1	8.5	7.7
						0.4	76.6	20.4		31.6	31.6	8.0		102.5	102.5	7.7		1.5		8.9				
						0.2	299.4	20.4		31.6	31.6	7.9		102.7	102.7	7.7		1.6		7.8				
					M	0.2	96.2	20.4	20.4	31.7	31.6	8.0	8.0	102.6	102.7	7.7	7.7	1.5	1.6	2.0	2.0	8.0	7.9	
						0.7	274.9	20.3	20.3	32.0	32.0	8.0		103.3	103.2	7.7		7.7		3.0		6.6		
						1.3	73.4	20.3	20.3	31.9	32.0	8.0		103.1	103.2	7.7		7.7		2.6		6.5		
E2	Cloudy	Moderate	05:07	8.1	S	2.0	338.6	20.4	20.4	32.0	32.1	8.2	8.2	99.3	99.4	7.4	7.4	5.4	5.4	2.0	2.0	9.4	11.9	<0.001
						2.0	338.6	20.4		32.1	32.0	8.2		99.4	99.4	7.4		5.3		9.7		<0.001		
						0.3	158.5	20.4		20.4	32.0	32.0		8.2	99.2	99.2		7.4		7.4		5.4		11.2
					M	0.3	32.6	20.4	20.4	32.1	32.1	8.2	99.2	99.2	7.4	7.4	5.5	11.7	<0.001					
						0.5	60.1	20.4	20.4	32.1	32.1	8.2	99.2	99.2	7.4	7.4	6.1	14.8	<0.001					
						0.4	15.0	20.4	20.4	32.1	32.1	8.2	99.2	99.2	7.4	7.4	5.8	14.4	<0.001					
E3	Fine	Rough	04:39	17.3	S	0.6	118.0	19.5	19.5	30.9	30.9	8.1	8.1	91.1	91.1	7.0	7.1	7.1	7.2	2.0	2.0	14.6	16.5	16.5
						0.6	118.0	19.5		30.9	30.9	8.1		91.1	91.1	7.0		7.2		14.2				
						0.7	122.0	19.6		19.6	31.3	31.3		8.2	94.9	95.1		7.2		7.2		11.1		
					M	0.7	130.0	19.6	19.6	31.3	31.3	8.2	95.2	95.1	7.3	7.2	11.0	16.3						
						0.6	112.0	19.6	19.6	31.6	31.6	8.2	96.6	96.7	7.3	7.3	13.6	18.7						
						0.7	112.0	19.6	19.6	31.6	31.6	8.2	96.7	96.7	7.4	7.3	13.9	18.5						
E4	Fine	Rough	06:59	11.0	S	1.1	196.0	19.4	19.4	31.0	31.0	8.1	8.1	91.4	91.4	7.0	7.0	7.7	7.8	2.0	2.0	12.9	14.5	14.5
						1.2	211.0	19.4		31.0	31.0	8.1		91.4	91.4	7.0		7.8		13.1				
						1.0	191.0	19.5		19.5	31.0	31.0		8.1	91.3	91.4		7.0		7.9		14.9		
					M	1.0	200.0	19.5	19.5	31.0	31.0	8.1	91.4	91.4	7.0	7.0	7.8	15.1						
						0.8	193.0	19.5	19.5	31.0	31.0	8.1	92.3	92.3	7.1	7.1	8.7	15.8						
						0.9	203.0	19.5	19.5	31.0	31.0	8.1	92.3	92.3	7.1	7.1	8.8	15.2						
E5	Fine	Moderate	06:14	5.6	S	0.7	207.0	20.0	20.0	30.5	30.5	8.1	8.1	98.8	98.9	7.5	7.5	24.7	24.8	2.0	2.0	39.6	41.3	41.3
						0.7	212.0	20.0		30.5	30.5	8.1		98.9	98.9	7.5		24.8		39.7				
						0.6	200.0	20.0		20.0	30.5	30.5		8.1	99.0	99.2		7.5		7.5		30.2		
					B	0.7	216.0	20.0	20.0	30.5	30.5	8.1	99.4	99.2	7.6	7.5	29.7	43.3						
						0.9	155.0	20.4	20.4	29.9	29.9	8.0	96.3	96.3	7.3	7.3	5.4	11.7						
						0.9	163.0	20.4	20.4	29.9	29.9	8.0	96.3	96.3	7.3	7.3	5.5	11.3						
E6	Fine	Moderate	05:25	5.6	S	0.7	150.0	20.3	20.3	30.1	30.1	8.0	8.0	97.7	97.8	7.4	7.4	9.6	9.6	2.0	2.0	15.3	13.5	13.5
						0.7	162.0	20.3		30.1	30.1	8.0		97.8	97.8	7.4		9.6		15.6				
						0.6	205.0	20.4		20.4	29.1	29.1		8.0	95.0	95.1		7.2		7.2		4.0		
					B	0.6	222.0	20.4	20.4	29.1	29.1	8.0	95.1	95.1	7.2	7.2	4.3	11.5						
						0.4	196.0	20.4	20.4	29.1	29.1	8.0	95.4	95.6	7.3	7.3	6.6	9.7						
						0.4	204.0	20.4	20.4	29.1	29.1	8.0	95.8	95.6	7.3	7.3	7.0	9.4						
E7A	Fine	Moderate	05:06	5.4	S	1.0	276.9	19.8	19.8	32.2	32.2	8.2	8.2	104.5	104.5	7.9	7.9	1.5	1.5	2.0	2.0	4.8	5.6	5.6
						1.0	276.9	19.8		32.2	32.2	8.2		104.5	104.5	7.9		1.4		5.0				
						0.2	93.3	19.8		19.8	32.2	32.2		8.2	103.8	103.9		7.8		7.8		1.9		
					M	0.3	38.5	19.8	19.8	32.2	32.2	8.2	103.9	103.9	7.9	7.8	1.7	5.5						
						0.5	114.9	19.8	19.8	32.2	32.2	8.2	103.3	103.3	7.8	7.8	2.0	6.6						
						0.5	157.9	19.7	19.7	32.2	32.2	8.2	103.3	103.3	7.8	7.8	2.2	6.0						
F2	Cloudy	Moderate	03:02	19.2	S	1.6	231.9	19.8	19.8	32.4	32.4	8.2	8.2	100.1	100.2	7.6	7.5	2.0	2.1	2.0	2.0	7.2	4.7	4.7
						1.6	231.9	19.8		32.4	32.4	8.2		100.2	100.2	7.6		2.1		7.6				
						0.6	88.5	19.8		19.8	32.4	32.4		8.2	99.5	99.6		7.5		7.5		2.2		
					M	0.6	88.5	19.8	19.8	32.4	32.4	8.2	99.6	99.6	7.5	7.5	2.0	4.2						
						0.9	343.6	19.8	19.8	32.4	32.4	8.2	99.0	99.0	7.5	7.5	2.6	2.8						
						0.9	251.6	19.8	19.8	32.4	32.4	8.2	98.9	99.0	7.5	7.5	2.6	3.0						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/16

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
F3	Cloudy	Moderate	03:40	17.1	S	0.2	315.5	19.9	19.9	32.4	32.4	8.2	8.2	101.4	101.5	7.6	7.6	2.8	2.9	2.8	4.6	4.7	6.7	<0.001
						0.7	135.1	19.9		32.4	32.4	8.2		101.5	101.5	7.6		2.9			4.8			
						1.0	120.1	19.9		32.4	32.4	8.2		100.9	100.9	7.6		2.5			7.1			
					M	0.7	46.2	19.9	32.4	32.4	8.2	100.9	100.9	7.6	7.6	2.7	2.6	6.9						
						0.8	66.3	19.9	32.4	32.4	8.2	100.6	100.5	7.6	7.6	2.7	2.9	8.6						
						0.7	156.1	19.9	32.4	32.4	8.2	100.4	100.4	7.6	7.6	3.0	2.9	8.4						
F4	Cloudy	Moderate	04:43	13.1	S	1.2	75.1	20.4	20.4	32.0	32.0	8.2	8.2	102.4	102.4	7.7	7.7	6.3	6.5	6.3	13.1	13.3	18.7	<0.001
						0.4	324.1	20.4		32.0	32.0	8.2		102.4	102.4	7.7		6.7						
						0.2	76.6	20.4		32.0	32.0	8.2		101.8	101.9	7.6		7.6			7.3			
					M	0.9	147.4	20.4	32.0	32.0	8.2	101.9	101.9	7.6	7.6	6.3	6.8	15.7						
						0.1	203.3	20.4	32.0	32.0	8.1	100.7	100.7	7.5	7.5	19.2	19.8	15.1						
						0.6	64.1	20.4	32.0	32.0	8.2	100.6	100.6	7.5	7.5	20.3	27.6	27.9						
F5	Cloudy	Moderate	03:40	5.5	S	0.4	186.0	19.9	19.9	31.5	31.5	8.1	8.1	100.1	100.1	7.6	7.6	30.3	30.6	30.3	48.7	48.8	49.1	<0.001
						0.4	200.0	19.9		31.5	31.5	8.1		100.1	100.1	7.6		30.9						
						0.3	179.0	19.9		31.5	31.5	8.1		99.6	99.6	7.5		7.5			35.4			
					B	0.3	182.0	19.9	31.5	31.5	8.1	99.6	99.6	7.5	7.5	34.9	35.2	49.3						
						0.1	142.0	20.2	30.6	30.6	8.1	97.2	97.2	7.4	7.4	3.0	3.2	8.8						
						0.1	146.0	20.2	30.6	30.6	8.1	97.1	97.2	7.3	7.4	3.3	3.2	8.4						
F6	Fine	Rough	03:21	13.9	M	0.3	122.0	20.2	20.2	30.7	30.7	8.1	8.1	94.7	94.6	7.2	7.2	3.5	3.5	3.5	9.7	9.5	9.8	<0.001
						0.3	132.0	20.2		30.7	30.7	8.1		94.5	94.6	7.1		7.1			3.5			
						0.2	139.0	20.3		31.4	31.4	8.0		94.6	94.6	7.1		7.1			3.6			
					B	0.2	145.0	20.3	31.4	31.4	8.0	94.6	94.6	7.1	7.1	3.6	3.6	11.4						
						0.8	23.7	19.9	32.2	32.2	8.1	101.9	101.9	7.7	7.7	1.8	1.9	7.3						
						0.8	23.7	19.9	32.2	32.2	8.1	101.9	101.9	7.7	7.7	2.0	2.0	7.3						
IM1	Cloudy	Moderate	02:09	10.2	S	1.1	61.5	19.9	19.9	32.2	32.2	8.1	8.1	101.5	101.6	7.6	7.6	2.1	2.0	2.1	9.6	9.3	8.9	<0.001
						0.5	202.4	19.9		32.2	32.2	8.1		101.6	101.6	7.7		1.9						
						0.8	85.0	20.0		32.2	32.2	8.1		101.3	101.3	7.6		7.6			2.0			
					M	0.4	195.4	20.0	32.2	32.2	8.1	101.2	101.3	7.6	7.6	2.0	2.0	10.3						
						0.3	42.9	20.5	32.2	32.2	8.1	107.8	107.7	8.0	8.0	1.7	1.7	10.1						
						0.3	229.5	20.5	32.2	32.2	8.1	107.6	107.7	8.0	8.0	1.6	1.7	6.5						
IM2	Cloudy	Moderate	01:47	12.0	M	0.1	180.0	20.4	20.4	32.2	32.2	8.1	8.1	107.8	107.8	8.0	8.0	3.1	2.9	3.1	7.3	7.5	7.4	<0.001
						0.2	313.9	20.5		32.2	32.2	8.1		107.8	107.8	8.0		2.6						
						0.2	78.9	20.3		32.2	32.2	8.1		107.4	107.7	8.0		8.1			3.1			
					B	0.4	175.7	20.3	32.2	32.2	8.1	108.0	107.7	8.1	8.1	2.9	3.0	8.0						
						0.6	344.1	20.2	32.1	32.1	8.2	103.2	103.0	7.7	7.7	4.1	4.0	8.3						
						0.6	344.1	20.2	32.1	32.1	8.2	102.7	103.0	7.7	7.7	3.9	4.0	6.1						
IM3	Cloudy	Moderate	05:55	14.1	M	0.2	144.9	20.2	20.2	32.3	32.3	8.2	8.2	104.3	104.3	7.8	7.8	8.1	7.6	8.1	8.1	8.2	8.6	<0.001
						0.4	162.1	20.2		32.3	32.3	8.2		104.2	104.3	7.8		7.1						
						1.4	318.0	20.1		32.4	32.4	8.2		103.7	103.9	7.8		7.8			17.8			
					B	1.4	318.0	20.1	32.4	32.4	8.2	104.0	103.9	7.8	7.8	19.0	18.4	11.5						
						0.1	173.0	20.2	32.1	32.2	8.3	103.2	103.3	7.7	7.7	3.6	3.9	11.2						
						0.1	173.0	20.2	32.2	32.2	8.3	103.3	103.3	7.7	7.7	4.2	3.9	5.3						
IM4	Cloudy	Moderate	05:33	16.3	M	0.8	229.3	20.2	20.2	32.2	32.2	8.3	8.3	103.6	103.5	7.8	7.8	5.9	5.6	5.9	6.8	6.9	10.1	<0.001
						0.6	57.5	20.2		32.2	32.2	8.3		103.4	103.5	7.8		7.8			5.2			
						0.8	65.2	20.1		32.3	32.3	8.2		103.6	103.7	7.8		7.8			12.8			
					B	0.3	136.3	20.1	32.3	32.3	8.2	103.7	103.7	7.8	7.8	15.0	13.9	17.9						
						0.9	305.9	20.2	32.1	32.2	8.2	104.1	104.1	7.8	7.8	2.3	2.3	18.3						
						0.9	305.9	20.2	32.2	32.2	8.2	104.0	104.1	7.8	7.8	2.3	2.3	5.9						
IM5	Cloudy	Moderate	04:11	14.1	S	0.2	154.0	20.1	20.1	32.3	32.3	8.2	8.2	103.9	104.0	7.8	7.8	2.4	2.5	2.4	7.5	7.7	7.6	<0.001
						0.6	229.4	20.1		32.3	32.3	8.2		103.9	104.0	7.8		7.8			2.5			
						0.5	69.3	20.0		32.3	32.3	8.2		102.9	102.8	7.7		7.7			3.1			
					M	0.6	229.4	20.1	32.3	32.3	8.2	104.0	104.0	7.8	7.8	2.4	2.5	7.8						
						0.5	69.3	20.0	32.3	32.3	8.2	102.9	102.8	7.7	7.7	3.1	3.3	9.4						
						0.6	256.0	20.0	32.3	32.3	8.2	102.7	102.7	7.7	7.7	3.5	3.3	9.1						

Water Quality Monitoring Data Log Sheet

Date: 2020/01/16

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA*	Value	Average	Value	Average		Value	Average				
IM6	Cloudy	Moderate	03:53	16.3	S	0.8	151.2	19.8	19.8	32.4	32.4	8.2	8.2	101.7	101.8	7.7	7.7	2.1	2.1	9.9	11.5	<0.001						
						0.8	151.2	19.8		32.4	32.4	8.2		101.8	101.8	7.7		2.1		9.3								
					M	1.2	349.6	19.8	32.4	32.4	8.2	8.2	101.2	101.2	7.6	7.6	2.2	2.2	11.9	<0.001								
						1.2	349.6	19.8	32.4	32.4	8.2	101.2	101.2	7.6	2.1		11.3		<0.001									
					B	0.7	34.1	19.8	19.8	32.4	32.4	8.2	8.2	100.9	100.9	7.6	7.6	2.4	2.5	13.0		<0.001						
						0.6	135.7	19.8	19.8	32.4	32.4	8.2	100.8	100.8	7.6	2.6		13.4		<0.001								
IM7	Fine	Rough	03:32	14.8	S	0.2	194.0	19.5	19.5	30.9	30.9	8.1	8.1	91.7	91.8	7.0	7.0	7.0	6.9	13.2	15.0	<0.001						
						0.2	200.0	19.5		30.9	30.9	8.1		91.8	91.8	7.0		6.9		12.8								
					M	0.2	160.0	19.5	19.5	31.0	31.0	8.1	8.1	92.9	93.0	7.1	7.1	7.5	7.5	13.9								
						0.2	169.0	19.5	19.5	31.0	31.0	8.1	93.0	93.0	7.1	7.6		14.0										
					B	0.1	194.0	19.6	19.6	31.4	31.4	8.1	8.1	95.9	95.9	7.3	7.3	7.3	7.3	14.2		14.4	17.8					
						0.1	209.0	19.6	19.6	31.4	31.4	8.1	95.8	95.8	7.3	14.5		18.0										
IM8	Fine	Rough	03:40	13.4	S	0.2	77.0	19.6	19.6	30.9	30.9	8.1	8.1	90.9	91.2	7.0	7.0	6.6	6.7	10.0	17.2	<0.001						
						0.2	77.0	19.6		19.6	30.9	30.9		8.1	91.4	91.2		7.0		6.8		10.1						
					M	0.3	86.0	19.6	19.6	31.4	31.4	8.2	8.2	95.1	95.2	7.2	7.2	7.2	7.2	12.3								
						0.3	92.0	19.6	19.6	31.4	31.4	8.2	95.3	95.2	7.3	12.5		19.0										
					B	0.2	82.0	19.6	19.6	31.4	31.4	8.2	8.2	96.3	96.3	7.3	7.3	7.3	7.3	16.1		22.5	22.7					
						0.2	84.0	19.6	19.6	31.4	31.4	8.2	96.3	96.3	7.3	16.2		22.3										
IM9	Fine	Rough	04:06	14.0	S	0.1	191.0	19.6	19.6	31.0	31.0	8.1	8.1	93.3	93.5	7.1	7.1	8.2	8.4	14.0	18.4	<0.001						
						0.1	200.0	19.6		19.6	31.0	31.0		8.1	93.6	93.5		7.2		8.6		14.1						
					M	0.3	162.0	19.6	19.6	31.3	31.3	8.2	8.2	95.1	95.2	7.2	7.2	7.3	7.3	10.2		10.2	16.6					
						0.3	175.0	19.6	19.6	31.3	31.3	8.2	95.3	95.2	7.3	10.2		18.2										
					B	0.4	128.0	19.7	19.7	31.7	31.7	8.2	8.2	96.9	96.9	7.4	7.4	7.4	7.4	14.9		15.0	22.8					
						0.4	130.0	19.7	19.7	31.7	31.7	8.2	96.9	96.9	7.4	15.2		22.4										
IM10	Fine	Rough	04:56	11.1	S	0.8	121.0	19.6	19.6	31.0	31.0	8.1	8.1	92.3	92.4	7.1	7.1	8.1	8.2	13.1	15.2	<0.001						
						0.8	124.0	19.6		19.6	31.0	31.0		8.1	92.4	92.4		7.1		8.3		12.8						
					M	0.8	123.0	19.6	19.6	31.3	31.3	8.2	8.2	95.1	95.2	7.2	7.2	7.2	7.2	10.4		10.3	14.9					
						0.8	128.0	19.6	19.6	31.3	31.3	8.2	95.2	95.2	7.3	10.2		15.3										
					B	0.7	113.0	19.6	19.6	31.5	31.5	8.1	8.1	96.0	96.3	7.3	7.3	7.3	7.3	12.0		12.3	17.1					
						0.7	123.0	19.6	19.6	31.5	31.5	8.1	96.5	96.3	7.3	12.5		17.8										
IM11A	Fine	Rough	05:11	3.8	S	0.9	154.0	19.6	19.6	31.1	31.1	8.1	8.1	92.3	92.3	7.0	7.0	9.3	9.5	13.4	13.4	<0.001						
						1.0	163.0	19.6		19.6	31.1	31.1		8.1	92.3	92.3		7.0		9.6		13.6						
					B	0.8	153.0	19.6	19.6	31.1	31.1	8.1	8.1	92.1	92.1	7.0	7.0	7.0	7.0	11.1		10.9	13.4					
						0.8	160.0	19.6	19.6	31.1	31.1	8.1	92.1	92.1	7.0	10.8		13.2										
					IM12	Fine	Rough	06:19	17.3	S	1.1	194.0	19.5	19.5	31.0	31.0	8.1	8.1	91.5	91.6		7.0	7.0	8.5	8.5	13.8	15.9	<0.001
											1.2	205.0	19.5		19.5	31.0	31.0		8.1	91.6		91.6		7.0		8.5		13.2
M	0.9	193.0	19.6	19.6						31.2	31.2	8.1	8.1	93.2	93.3	7.1	7.1	7.1	7.1	10.1	10.0	15.3						
	0.9	203.0	19.6	19.6						31.2	31.2	8.1	93.3	93.3	7.1	10.0		15.0										
B	0.9	180.0	19.6	19.6						31.3	31.3	8.1	8.1	94.0	94.1	7.2	7.2	7.2	7.2	9.8	9.9	18.8						
	0.9	187.0	19.6	19.6						31.3	31.3	8.1	94.1	94.1	7.2	9.9		19.1										
IM13	Fine	Rough	05:48	11.4	S	1.2	180.0	19.5	19.5	30.9	30.9	8.1	8.1	91.2	91.3	7.0	7.0	7.6	7.6	12.9	15.0	<0.001						
						1.2	180.0	19.5		19.5	30.9	30.9		8.1	91.3	91.3		7.0		7.7		12.5						
					M	1.0	178.0	19.5	19.5	30.8	30.8	8.1	8.1	91.9	91.9	7.0	7.0	7.0	7.0	8.5		8.7	14.9					
						1.1	188.0	19.5	19.5	30.8	30.8	8.1	92.2	92.1	7.1	8.9		14.2										
					B	0.8	177.0	19.6	19.6	31.5	31.5	8.2	8.2	96.4	96.4	7.3	7.3	7.3	7.3	13.0		13.0	17.5					
						0.8	178.0	19.6	19.6	31.5	31.5	8.2	96.4	96.4	7.3	13.1		17.7										
IM14	Fine	Rough	06:00	16.5	S	1.2	233.0	19.6	19.6	31.0	31.0	8.1	8.1	91.4	91.5	7.0	7.0	8.7	8.7	18.1	16.6	<0.001						
						1.3	244.0	19.6		19.6	31.0	31.0		8.1	91.5	91.5		7.0		8.7		18.6						
					M	1.1	220.0	19.6	19.6	31.2	31.2	8.1	8.1	93.4	93.5	7.1	7.1	7.1	7.1	9.7		9.8	16.2					
						1.2	220.0	19.6	19.6	31.2	31.2	8.1	93.5	93.5	7.1	9.9		16.3										
					B	0.9	209.0	19.6	19.6	31.3	31.3	8.2	8.2	94.2	94.2	7.2	7.2	7.2	7.2	10.3		10.2	15.0					
						0.9	220.0	19.6	19.6	31.3	31.3	8.2	94.2	94.2	7.2	10.2		15.2										

Water Quality Monitoring Data Log Sheet

Date: 2020/01/16

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*			
IM15	Fine	Moderate	06:24	5.8	S	1.0	221.0	20.1	20.1	30.7	30.7	8.1	8.1	98.8	98.9	7.5	7.5	7.5	19.2	20.8	20.9	37.5	39.1					
						1.1	223.0	20.1		30.7	30.7	8.1		99.0		7.5		21.0		37.9								
					B	0.8	212.0	20.1	30.7	30.7	8.1	100.0	7.6	17.9	40.0													
						0.8	214.0	20.1	30.7	30.7	8.1	99.9	7.6	17.2	40.8													
IM16A	Fine	Moderate	06:03	5.7	S	0.7	196.0	20.2	20.2	30.2	30.2	8.0	8.0	97.4	97.4	7.4	7.4	7.4	27.7	27.5	27.8	47.9	47.9					
						0.7	213.0	20.2		30.2	30.2	8.0		97.3		7.4		27.9		48.5								
					B	0.6	187.0	20.2	20.2	30.2	30.2	8.0	8.0	98.3	98.4	7.5	7.5	7.5	27.2	27.2	47.7	47.7						
						0.6	195.0	20.2		30.2	30.2	8.0		98.4		7.5		27.2		47.6								
IM17	Fine	Moderate	05:44	5.0	S	0.5	163.0	20.2	20.2	30.1	30.1	8.0	8.0	98.0	98.0	7.4	7.4	7.4	15.9	15.5	15.7	24.4	25.5					
						0.6	168.0	20.2		30.1	30.1	8.0		98.0		7.4		15.8		24.7								
					B	0.5	161.0	20.2	20.2	30.1	30.1	8.0	8.0	98.9	99.1	7.5	7.5	7.5	16.2	16.2	26.3	26.5						
						0.5	176.0	20.2		30.1	30.1	8.0		99.2		7.5		16.2		26.7								
IM18	Fine	Moderate	03:49	17.6	S	0.4	147.0	20.3	20.3	30.1	30.1	8.0	8.0	95.7	95.7	7.2	7.2	7.1	3.6	3.2	3.2	8.1	9.6					
						0.4	149.0	20.3		30.1	30.1	8.0		95.6		7.2		3.2		8.5								
					M	0.3	142.0	20.3	20.3	30.8	30.8	8.0	8.0	92.7	92.8	7.0	7.0	7.0	3.5	3.5	9.6							
						0.4	147.0	20.3		30.8	30.8	8.0		92.8		7.0		3.5		9.5								
					B	0.2	160.0	20.3	20.3	31.0	31.0	8.1	8.1	93.7	93.7	7.1	7.1	7.1	4.1	4.0	10.8							
						0.2	173.0	20.3		31.0	31.0	8.1		93.7		7.1		4.1		11.2								
					IM19	Fine	Moderate	04:03	19.0	S	0.6	193.0	20.7	20.7	30.1	30.1	8.0	8.0	95.9	95.9	7.2	7.2	7.1	1.8	1.0	1.1	6.9	7.8
											0.6	209.0	20.7		30.1	30.1	8.0		95.8		7.2		1.1		7.0			
M	0.4	161.0	20.4	20.4						30.7	30.7	8.0	8.0	94.2	94.1	7.1	7.1	7.1	2.1	2.1	8.4							
	0.4	171.0	20.4							30.7	30.7	8.0		94.0		7.1		2.1		8.0								
B	0.4	144.0	20.3	20.3						31.0	31.0	8.0	8.0	93.5	93.7	7.0	7.1	7.1	2.4	2.3	8.4							
	0.4	155.0	20.3							31.0	31.0	8.0		93.9		7.1		2.4		8.1								
IM20A	Fine	Moderate	04:45	5.2	S	0.5	243.0	20.8	20.8	29.5	29.5	8.0	8.0	94.8	94.8	7.1	7.1	7.1	5.5	4.7	4.8	11.0	11.5					
						0.6	246.0	20.8		29.5	29.5	8.0		94.8		7.1		4.8		11.2								
					B	0.4	236.0	20.9	20.9	29.6	29.6	8.0	8.0	94.9	95.0	7.1	7.1	7.1	6.2	6.2	11.8							
						0.4	252.0	20.9		29.6	29.6	8.0		95.0		7.1		6.3		11.9								
IM21A	Fine	Moderate	04:31	5.7	S	0.4	216.0	20.9	20.9	29.8	29.8	8.0	8.0	95.7	95.7	7.2	7.2	7.2	5.8	4.6	4.7	13.6	14.5					
						0.4	224.0	20.9		29.8	29.8	8.0		95.6		7.2		4.7		13.4								
					B	0.2	202.0	20.9	20.9	29.8	29.8	8.0	8.0	96.2	96.4	7.2	7.2	7.2	7.0	6.8	15.4							
						0.2	203.0	20.9		29.8	29.8	8.0		96.6		7.2		7.1		15.7								
IM22A	Fine	Moderate	04:24	5.8	S	0.6	219.0	21.2	21.2	29.9	29.9	8.0	8.0	96.9	97.0	7.2	7.2	7.2	3.3	3.1	3.2	10.9	12.2					
						0.6	239.0	21.2		29.9	29.9	8.0		97.0		7.2		3.2		10.9								
					B	0.4	213.0	21.0	21.0	30.0	29.9	8.0	8.0	98.6	98.7	7.4	7.4	7.4	3.5	3.5	13.6							
						0.4	222.0	21.0		29.9	29.9	8.0		98.7		7.4		3.5		13.2								

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: 2020/01/16

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value		Average
E1	FINE	Moderate	08:45	8.2	S	0.5	261.8	20.3	20.3	31.4	31.4	7.9	7.9	92.3	92.4	6.9	6.9	6.9	2.4	2.3	3.1	5.4	6.8	
						0.5	210.9	20.3	31.4	31.4	7.9	7.9	92.5	92.4	7.0	6.9	6.9	2.1	2.3	5.1				
						0.3	240.5	20.3	31.6	31.6	7.9	7.9	91.6	91.6	6.9	6.9	6.9	3.2	3.2	6.2				
					M	0.5	320.7	20.3	31.6	31.6	7.9	7.9	91.5	91.6	6.9	6.9	6.9	3.2	3.2	6.7	6.5			
						0.6	268.5	20.3	31.6	31.6	7.9	7.9	92.9	92.4	7.0	6.9	6.9	3.9	3.9	8.4	8.6			
						0.7	337.3	20.3	31.6	31.6	7.9	7.9	91.8	92.4	6.9	6.9	6.9	3.8	3.9	8.8				
E2	FINE	Moderate	12:03	8.1	S	0.8	267.1	20.7	20.7	31.9	31.9	8.1	8.1	99.9	99.3	7.4	7.4	7.4	4.7	4.6	6.2	8.9	10.7	<0.001
						1.0	259.8	20.7	31.9	31.9	8.1	8.1	99.7	99.3	7.4	7.4	7.4	4.4	4.6	8.4				
						0.4	63.0	20.5	20.5	31.9	31.9	8.0	8.0	95.6	95.5	7.1	7.1	7.1	6.9	7.0	11.0	11.1		
					M	1.0	262.7	20.5	20.4	31.9	31.9	8.0	8.0	95.4	95.5	7.1	7.1	7.1	7.1	7.1	11.2	11.1		
						0.2	226.5	20.5	20.4	32.0	32.0	8.1	8.1	96.0	96.0	7.2	7.2	7.2	7.0	7.1	12.3	12.5		
						0.5	170.1	20.4	20.4	32.0	32.0	8.1	8.1	95.9	96.0	7.2	7.2	7.2	7.1	7.1	12.6	12.5		
E3	Fine	Rough	11:00	16.9	S	0.6	317.0	20.3	20.3	33.2	33.2	8.0	8.0	104.8	104.8	7.8	7.8	7.8	5.3	5.5	5.5	12.0	12.5	
						0.7	329.0	20.3	20.3	33.2	33.2	8.0	8.0	104.7	104.4	7.8	7.8	7.8	5.7	5.7	11.9			
						0.6	337.0	20.4	20.4	33.2	33.2	8.0	8.0	104.3	104.4	7.7	7.7	7.7	5.7	5.7	12.3			
					M	0.6	4.0	20.4	20.4	33.1	33.2	8.0	8.0	104.4	104.4	7.8	7.7	7.7	5.6	5.7	12.7			
						0.4	311.0	20.6	20.6	33.1	33.1	8.0	8.0	104.8	104.8	7.8	7.8	7.8	5.4	5.4	13.1			
						0.4	323.0	20.6	20.6	33.1	33.1	8.0	8.0	104.7	104.8	7.8	7.8	7.8	5.3	5.3	12.8			
E4	Fine	Rough	09:20	11.3	S	0.3	198.0	19.8	19.8	31.0	31.0	8.1	8.1	99.8	99.8	7.6	7.6	7.6	8.9	8.9	9.3	11.8	13.0	
						0.3	200.0	19.8	19.8	31.0	31.0	8.1	8.1	99.8	99.8	7.6	7.6	7.6	8.9	8.9	12.2			
						0.3	206.0	19.8	19.8	31.1	31.1	8.1	8.1	99.7	99.7	7.6	7.6	7.6	9.2	9.2	12.6			
					M	0.3	225.0	19.8	19.8	31.1	31.1	8.1	8.1	99.7	99.7	7.6	7.6	7.6	9.2	9.2	12.7			
						0.2	251.0	19.8	19.8	31.1	31.1	8.0	8.0	99.2	99.2	7.5	7.5	7.5	9.7	9.7	14.2			
						0.2	256.0	19.8	19.8	31.1	31.1	8.0	8.0	99.1	99.2	7.5	7.5	7.5	9.8	9.7	14.0			
E5	Fine	Moderate	09:45	5.3	S	0.4	309.0	20.3	20.3	29.9	29.9	8.0	8.0	96.9	97.0	7.3	7.3	7.3	23.5	23.4	23.5	43.6	44.5	
						0.4	339.0	20.3	20.3	29.9	29.9	8.0	8.0	97.0	97.0	7.4	7.4	7.4	23.3	23.4	43.3			
						0.2	303.0	20.3	20.3	30.0	30.0	8.0	8.0	98.6	98.7	7.5	7.5	7.5	23.5	23.6	45.7			
					B	0.2	327.0	20.3	20.3	30.0	30.0	8.0	8.0	98.7	98.7	7.5	7.5	7.5	23.6	23.6	45.4			
						0.3	342.0	20.5	20.5	27.2	27.2	8.0	8.0	96.8	96.9	7.4	7.4	7.4	2.4	2.5	5.2			
						0.3	355.0	20.5	20.5	27.2	27.2	8.0	8.0	96.9	96.9	7.4	7.4	7.4	2.6	2.5	5.5			
E6	Fine	Moderate	10:45	5.5	S	0.4	348.0	20.4	20.4	27.7	27.7	8.0	8.0	99.1	99.2	7.6	7.6	7.6	3.4	3.4	3.0	8.4	6.9	
						0.4	359.0	20.4	20.4	27.7	27.7	8.0	8.0	99.2	99.2	7.6	7.6	7.6	3.4	3.4	8.6			
						0.4	44.0	20.7	20.7	27.9	27.9	8.0	8.0	94.9	95.0	7.2	7.2	7.2	4.1	4.2	8.6			
					B	0.4	47.0	20.7	20.7	27.9	27.9	8.0	8.0	95.1	95.0	7.3	7.3	7.3	4.3	4.2	8.9			
						0.3	36.0	20.5	20.5	28.4	28.4	8.0	8.0	97.8	97.9	7.5	7.5	7.5	11.9	11.9	14.0			
						0.3	37.0	20.5	20.5	28.4	28.4	8.0	8.0	98.0	98.0	7.5	7.5	7.5	11.9	11.9	14.0			
E7A	Fine	Moderate	11:02	4.7	S	0.5	306.4	20.1	20.1	32.4	32.3	8.1	8.1	104.7	104.8	7.9	7.9	7.9	2.2	2.2	3.1	6.8	8.9	
						0.3	315.7	20.1	20.1	32.3	32.3	8.1	8.1	104.9	104.3	7.9	7.8	7.8	2.1	2.3	6.6			
						0.9	325.3	20.1	20.1	32.4	32.4	8.1	8.1	104.2	104.3	7.8	7.8	7.8	2.3	2.3	8.5			
					M	0.6	185.8	20.1	20.1	32.4	32.4	8.1	8.1	104.3	104.3	7.8	7.8	7.8	2.2	2.3	8.7			
						0.8	245.0	20.1	20.1	32.3	32.3	8.1	8.1	102.9	102.9	7.7	7.7	7.7	5.0	4.9	11.2			
						1.2	285.5	20.1	20.1	32.3	32.3	8.1	8.1	102.9	102.9	7.7	7.7	7.7	4.8	4.9	11.5			
F1	FINE	Moderate	09:39	19.2	S	0.4	225.6	19.9	19.9	32.4	32.4	8.1	8.1	102.8	102.9	7.7	7.7	7.7	1.8	1.7	3.1	6.0	8.5	
						0.4	225.6	19.9	19.9	32.4	32.4	8.1	8.1	103.0	102.9	7.8	7.7	7.7	1.6	1.7	6.4			
						0.9	318.6	19.9	19.9	32.4	32.4	8.1	8.1	101.0	101.3	7.6	7.6	7.6	2.4	2.2	7.2			
					M	0.3	269.2	19.9	19.9	32.4	32.4	8.1	8.1	101.5	101.3	7.6	7.6	7.6	2.0	2.2	7.1			
						0.8	87.6	19.8	19.8	32.4	32.4	8.1	8.1	100.0	99.9	7.5	7.5	7.5	5.0	5.4	12.1			
						0.2	103.5	19.8	19.8	32.4	32.4	8.1	8.1	99.8	99.9	7.5	7.5	7.5	5.8	5.4	12.3			
F2	FINE	Moderate	10:07	18.1	S	0.4	225.6	19.9	19.9	32.4	32.4	8.1	8.1	102.8	102.9	7.7	7.7	7.7	1.6	1.7	3.1	6.0	8.5	
						0.4	225.6	19.9	19.9	32.4	32.4	8.1	8.1	103.0	102.9	7.8	7.7	7.7	1.6	1.7	6.4			
						0.9	318.6	19.9	19.9	32.4	32.4	8.1	8.1	101.0	101.3	7.6	7.6	7.6	2.4	2.2	7.2			
					M	0.3	269.2	19.9	19.9	32.4	32.4	8.1	8.1	101.5	101.3	7.6	7.6	7.6	2.0	2.2	7.1			
						0.8	87.6	19.8	19.8	32.4	32.4	8.1	8.1	100.0	99.9	7.5	7.5	7.5	5.0	5.4	12.1			
						0.2	103.5	19.8	19.8	32.4	32.4	8.1	8.1	99.8	99.9	7.5	7.5	7.5	5.8	5.4	12.3			

Water Quality Monitoring Data Log Sheet

Date: 2020/01/16

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average		DA*	Value	Average	Value	Average
F3	FINE	Moderate	10:42	17.2	S	0.9	253.0	20.0	20.0	32.4	32.4	8.2	8.2	104.4	104.5	7.8	7.9	7.8	3.2	3.2	5.9	11.1	11.1	13.6	<0.001			
						0.7	342.9	20.0		32.4		8.2		104.6		7.9			3.1			11.0			<0.001			
						0.4	296.3	20.0		32.4		8.2		102.8		7.7			6.4			13.8			<0.001			
					M	0.2	23.8	20.0	32.4	8.2	103.0	7.7	5.1	13.3	<0.001													
						1.0	292.9	20.0	32.4	8.2	101.8	7.7	8.7	16.5	<0.001													
						0.8	267.3	20.0	32.4	8.1	101.8	7.7	8.9	16.0	<0.001													
F4	FINE	Moderate	11:36	13.0	S	0.5	269.1	20.6	20.6	32.0	32.0	8.1	8.1	105.4	105.8	7.9	7.9	7.7	5.7	5.6	14.3	13.4	13.3	20.6	<0.001			
						0.5	269.1	20.6		32.0		8.1		106.2		7.9			5.4			13.2			<0.001			
						0.3	210.3	20.4		32.0		8.1		101.7		7.6			10.9			20.1			<0.001			
					M	0.6	279.8	20.4	32.0	8.1	101.9	7.6	10.8	19.9	<0.001													
						0.7	280.1	20.4	32.1	8.1	100.4	7.5	27.1	28.2	<0.001													
						0.2	356.0	20.4	32.1	8.1	100.3	7.5	25.7	28.8	<0.001													
F5	Fine	Moderate	09:09	5.3	S	0.2	67.0	20.1	20.1	30.8	30.8	8.1	8.1	98.4	98.4	7.5	7.5	7.5	13.9	14.0	13.3	23.4	23.6	25.6	<0.001			
						0.3	72.0	20.1		30.8		8.1		98.4		7.5			14.0			23.8			<0.001			
						0.2	32.0	20.0		31.2		8.0		98.7		7.5			12.7			27.9			<0.001			
					B	0.2	32.0	20.0	31.2	8.0	98.7	7.5	12.7	27.4	<0.001													
						0.4	332.0	20.5	30.3	8.0	96.5	7.3	5.4	11.1	<0.001													
						0.4	352.0	20.5	30.3	8.0	96.5	7.3	5.4	10.8	<0.001													
F6	Fine	Moderate	12:38	14.4	M	0.4	324.0	20.5	20.5	30.4	30.4	8.1	8.1	95.6	95.6	7.2	7.2	7.2	7.7	7.8	8.2	12.2	12.4	12.1	<0.001			
						0.4	349.0	20.5		30.4		8.1		95.5		7.2			7.8			12.5			<0.001			
						0.4	307.0	20.3		31.1		8.1		94.9		7.2			11.3			12.7			<0.001			
					B	0.4	313.0	20.3	31.1	8.1	95.1	7.2	11.4	12.9	<0.001													
						0.1	26.6	20.3	32.2	8.1	106.3	7.9	3.9	6.4	<0.001													
						0.1	26.6	20.3	32.2	8.1	106.4	8.0	3.7	6.0	<0.001													
IM1	FINE	Moderate	09:19	9.1	S	0.5	5.1	20.3	20.3	32.2	32.2	8.1	8.1	105.7	105.8	7.9	7.9	7.9	4.0	3.9	4.0	6.3	6.4	6.4	<0.001			
						0.1	156.6	20.3		32.2		8.1		105.8		7.9			3.7			6.5			<0.001			
						0.5	141.5	20.3		32.2		8.1		104.8		7.8			4.2			6.6			<0.001			
					M	0.2	34.7	20.3	32.2	8.1	105.2	7.9	4.3	6.7	<0.001													
						0.9	350.3	20.3	31.6	7.9	94.2	7.1	3.1	5.5	<0.001													
						0.9	350.3	20.3	31.6	7.9	94.8	7.1	3.1	5.8	<0.001													
IM2	FINE	Moderate	08:57	10.3	M	1.0	216.2	20.3	20.3	31.6	31.6	7.9	7.9	92.2	92.7	6.9	7.0	7.0	3.2	3.1	3.2	7.3	7.2	7.0	<0.001			
						0.7	248.9	20.3		31.6		7.9		93.2		7.0			3.0			7.0			<0.001			
						1.0	308.3	20.3		31.6		7.9		92.5		6.9			3.5			8.5			<0.001			
					B	0.6	187.5	20.3	31.6	7.9	91.8	6.9	3.4	8.1	<0.001													
						0.4	102.8	20.7	31.7	8.1	105.2	7.8	1.7	8.9	<0.001													
						0.5	326.2	20.7	31.7	8.1	105.8	7.9	1.8	8.4	<0.001													
IM3	FINE	Moderate	12:54	14.0	S	0.7	185.7	20.1	20.1	32.2	32.2	8.1	8.1	102.1	102.0	7.7	7.7	7.8	2.5	2.4	3.3	14.4	14.3	18.3	<0.001			
						0.3	52.7	20.1		32.2		8.1		101.9		7.6			2.3			14.2			<0.001			
						0.6	279.4	20.1		32.3		8.2		102.3		7.7			5.8			32.1			<0.001			
					M	0.4	35.5	20.1	32.3	8.2	102.7	7.7	5.9	31.7	<0.001													
						0.7	341.6	20.7	31.8	8.1	106.2	7.9	2.7	8.9	<0.001													
						0.5	100.4	20.7	31.8	8.1	106.8	8.0	2.7	8.7	<0.001													
IM4	FINE	Moderate	12:31	16.1	M	0.8	65.5	20.2	20.2	32.1	32.1	8.1	8.1	102.8	102.7	7.7	7.7	7.8	2.6	2.6	5.5	12.4	12.1	17.4	<0.001			
						0.3	311.4	20.2		32.1		8.1		102.6		7.7			2.5			11.8			<0.001			
						0.6	353.7	20.1		32.3		8.2		101.7		7.6			10.8			31.6			<0.001			
					B	0.5	312.0	20.1	32.3	8.2	101.9	7.7	11.3	31.1	<0.001													
						0.9	323.0	20.4	32.1	8.1	104.8	7.8	2.7	4.6	<0.001													
						0.3	271.7	20.4	32.1	8.1	105.4	7.9	2.7	4.4	<0.001													
IM5	FINE	Moderate	11:08	14.1	S	0.6	72.4	20.3	20.3	32.1	32.1	8.1	8.1	103.0	103.2	7.7	7.7	7.8	2.9	3.0	3.3	7.0	7.0	6.6	<0.001			
						0.4	159.2	20.3		32.1		8.1		103.3		7.7			3.0			7.0			<0.001			
						0.6	261.4	20.1		32.2		8.1		101.4		7.6			3.9			8.3			<0.001			
					M	0.3	291.6	20.1	32.2	8.1	101.2	7.6	4.6	8.1	<0.001													

Water Quality Monitoring Data Log Sheet

Date: 2020/01/16

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*				
IM6	FINE	Moderate	10:53	15.3	S	0.3	73.8	20.2	20.2	32.1	32.1	8.1	8.1	103.7	103.9	7.8	7.7	2.8	3.0	4.0	6.0	6.1	6.8	<0.001					
						0.3	73.8	20.2		32.1	32.1	8.1		104.0	7.8	3.1		6.2			<0.001								
						0.7	340.9	20.1		32.1	32.1	8.1		102.7	7.7	3.3		6.2			<0.001								
					M	0.8	313.3	20.1	20.1	32.1	32.1	8.1	8.1	102.8	102.8	7.7	7.7	3.3	3.3	5.9	6.1	6.8	0.007						
						B	0.6	250.3	20.1	20.1	32.2	32.2	8.1	8.1	101.4	101.5	7.6	7.6	6.2	5.8	8.3	8.2	<0.001						
							0.7	273.2	20.1	32.2	32.2	8.1	8.1	101.5	7.6	7.6	7.6	5.4	5.8	8.1	<0.001								
IM7	Fine	Rough	12:03	12.9	S	0.5	261.0	20.7	20.7	33.4	33.4	8.2	8.2	106.3	106.3	7.8	7.8	3.4	3.4	3.1	6.0	6.2	7.1	<0.001					
						0.6	268.0	20.7		33.4	33.4	8.2		106.2	7.8	3.4		6.4			<0.001								
					M	0.5	262.0	21.0	21.0	33.4	33.4	8.2	8.2	105.8	105.6	7.8	7.8	3.2	3.2	6.8	6.7	7.1	6.8						
						0.6	282.0	20.9	33.4	33.4	8.2	8.2	105.3	7.7	7.8	3.1	6.6												
					B	0.3	260.0	20.9	21.0	33.5	33.5	8.2	8.2	102.4	102.2	7.5	7.5	2.7	2.6	8.1	8.3	7.9	8.1						
						0.3	280.0	21.0	33.4	33.4	8.2	8.2	101.9	7.5	7.5	2.6	2.6	8.5	8.3										
IM8	Fine	Rough	12:15	15.0	S	0.3	296.0	20.1	20.1	33.3	33.3	8.2	8.2	106.0	106.0	7.9	7.9	9.5	9.5	5.0	9.6	9.5	8.0	9.4					
						0.4	300.0	20.1	33.3	33.3	8.2	105.9		7.9	9.5	9.4													
					M	0.4	287.0	20.7	20.7	33.4	33.5	8.2	8.2	106.5	106.3	7.9	7.8	2.8	2.8	7.6	7.9	8.0	7.6						
						0.4	301.0	20.6	20.7	33.5	33.5	8.2	8.2	106.1	7.8	7.8	2.8	2.8	8.2	7.9	8.0								
					B	0.3	292.0	20.2	20.2	33.6	33.6	8.2	8.2	103.4	103.1	7.7	7.7	2.6	2.6	6.5	6.7	8.0	6.5						
						0.3	319.0	20.2	20.2	33.6	33.6	8.2	8.2	102.7	7.6	7.7	2.6	2.6	6.8	6.7	8.0								
IM9	Fine	Rough	11:35	15.1	S	0.6	279.0	20.7	20.7	33.4	33.4	8.2	8.2	109.5	109.5	8.1	8.0	4.5	4.4	9.3	7.5	7.7	7.9	7.9					
						0.7	283.0	20.7	33.4	33.4	8.2	109.4		8.1	4.4	7.9													
					M	0.7	274.0	20.6	20.6	33.4	33.4	8.2	8.2	108.0	107.9	8.0	8.0	4.7	4.7	8.0	7.9	7.9	8.0						
						0.7	300.0	20.6	20.6	33.4	33.4	8.2	8.2	107.7	8.0	8.0	4.7	4.7	7.7	7.9	8.0								
					B	0.8	282.0	20.9	20.9	33.4	33.4	8.2	8.2	105.9	105.6	7.8	7.8	19.1	18.7	8.1	8.3	7.9	8.1						
						0.9	300.0	20.9	20.9	33.4	33.4	8.2	8.2	105.3	7.7	7.8	18.4	18.7	8.4	8.3	8.1								
IM10	Fine	Rough	10:43	10.6	S	1.1	275.0	20.5	20.5	32.1	32.1	8.1	8.1	108.5	108.5	8.1	8.1	7.3	7.4	7.0	10.2	10.4	11.6	10.5					
						1.1	297.0	20.5	32.1	32.1	8.1	108.5		8.1	7.5	10.4													
					M	0.9	274.0	20.1	20.2	32.3	32.2	8.1	8.1	107.5	107.6	8.1	8.1	6.9	6.8	11.5	11.7	11.6	11.5						
						0.9	293.0	20.2	20.2	32.2	32.2	8.1	8.1	107.6	8.1	8.1	6.7	6.8	11.8	11.7	11.6								
					B	0.8	264.0	20.4	20.4	32.2	32.2	8.1	8.1	108.1	108.1	8.1	8.1	7.1	6.9	12.7	12.8	11.6	12.7						
						0.9	278.0	20.4	20.4	32.2	32.2	8.1	8.1	108.1	8.1	8.1	6.7	6.9	12.9	12.8	11.6								
IM11A	Fine	Rough	10:31	4.9	S	0.8	339.0	19.8	19.8	31.0	31.0	8.2	8.2	99.8	99.9	7.6	7.6	10.2	10.3	10.2	15.5	15.8	16.6	16.0					
						0.8	351.0	19.8	19.8	31.0	31.0	8.2		99.9	7.6	7.6		10.3			15.8								
					B	0.8	338.0	19.8	19.8	31.0	31.0	8.2	8.2	99.7	99.7	7.6	7.6	10.2	10.1	17.3	17.5	16.6	17.3						
						0.8	353.0	19.8	19.8	31.0	31.0	8.2	8.2	99.7	7.6	7.6	10.0	10.1	17.6	17.5	16.6								
					IM12	Fine	Rough	10:12	13.6	S	1.1	347.0	19.9	19.9	31.0	31.0	8.2	8.2	99.7	99.7	7.6	7.6	10.6	10.6	10.2	18.3	18.4	16.8	18.4
											1.2	20.0	19.9	31.0	31.0	8.2	99.7		7.6	10.5	18.4								
M	1.0	0.0	20.0	20.0						31.2	31.2	8.2	8.2	100.1	100.1	7.6	7.6	9.3	9.4	16.4	16.6	16.8	16.4						
	1.1	0.0	20.0	20.0						31.2	31.2	8.2	8.2	100.1	7.6	7.6	9.5	9.4	16.8	16.6	16.8								
B	0.8	0.0	20.0	20.0						31.1	31.1	8.2	8.2	100.4	100.5	7.6	7.6	10.5	10.6	15.4	15.3	16.8	15.4						
	0.8	0.0	20.0	20.0						31.1	31.1	8.2	8.2	100.5	7.6	7.6	10.7	10.6	15.2	15.3	16.8								
IM13	Fine	Rough	09:46	15.5	S	0.3	330.0	19.8	19.8	31.1	31.1	8.2	8.2	100.0	100.0	7.6	7.6	9.0	9.0	8.9	18.5	18.7	15.3	18.8					
						0.3	336.0	19.8	19.8	31.2	31.2	8.2		99.9	7.6	7.6		8.7			14.3								
					M	0.3	355.0	19.8	19.8	31.2	31.2	8.2	8.2	99.9	99.9	7.6	7.6	8.7	8.7	14.8	14.6	15.3	14.8						
						0.3	331.0	19.8	19.8	31.2	31.2	8.2	8.2	99.9	99.9	7.6	7.6	9.0	9.0	12.8	12.6	15.3	12.8						
					B	0.3	333.0	19.8	19.8	31.2	31.2	8.2	8.2	99.9	99.9	7.6	7.6	9.0	9.0	12.4	12.6	15.3	12.4						
						0.2	18.0	19.9	19.9	31.0	31.0	8.2	8.2	99.9	99.9	7.6	7.6	8.3	8.3	14.5	14.3	15.3	14.5						
IM14	Fine	Rough	09:34	10.4	S	0.2	19.0	19.9	19.9	31.0	31.0	8.2	8.2	99.9	99.9	7.6	7.6	8.3	8.3	8.8	14.1	14.3	10.7	14.1					
						0.2	23.0	19.8	19.8	31.2	31.2	8.1		8.1	99.8	99.8		7.6			7.6			8.2	8.2	11.0	11.2	10.7	11.0
					M	0.2	24.0	19.8	19.8	31.2	31.2	8.1	8.1	99.8	99.8	7.6	7.6	8.2	8.2	11.4	11.2	10.7	11.4						
						0.4	7.0	19.8	19.8	31.2	31.2	8.1	8.1	100.0	7.6	7.6	9.8	9.8	6.2	6.5	10.7	6.2							
					B	0.4	7.0	19.8	19.8	31.2	31.2	8.1	8.1	99.9	7.6	7.6	9.9	9.8	6.7	6.5	10.7	6.7							

Water Quality Monitoring Data Log Sheet

Date: 2020/01/16

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*	
IM15		Moderate	09:33	5.6	S	0.5	276.0	20.4	20.4	29.8	29.8	8.0	8.0	95.4	95.4	7.2	7.2	7.2	37.6	37.7	42.1	67.3	67.2	68.7		
						0.5	303.0	20.4	20.4	29.8	29.8	8.0	8.0	95.4	95.4	7.2	7.2	7.2	37.7	37.7	42.1	67.0	67.2			
					B	0.4	273.0	20.4	20.4	29.8	29.8	8.0	8.0	97.3	97.6	7.4	7.4	7.4	46.6	46.6	46.6	46.6	46.6		70.4	70.3
						0.4	293.0	20.4	20.4	29.8	29.8	8.0	8.0	97.9	97.6	7.4	7.4	7.4	46.6	46.6	46.6	46.6	46.6		70.1	70.3
IM16A	Fine	Moderate	10:00	5.8	S	0.2	262.0	20.3	20.3	29.9	29.9	8.0	8.0	97.0	97.1	7.4	7.4	7.4	12.0	11.8	11.5	26.2	26.1	27.5		
						0.2	275.0	20.3	20.3	29.9	29.9	8.0	8.0	97.1	97.1	7.4	7.4	7.4	11.6	11.3	11.5	26.0	26.1			
					B	0.1	296.0	20.3	20.3	29.9	29.9	8.0	8.0	99.9	99.0	7.5	7.5	7.5	11.3	11.3	11.3	11.3	11.3		28.8	28.9
						0.2	312.0	20.3	20.3	29.9	29.9	8.0	8.0	99.0	99.0	7.5	7.5	7.5	11.2	11.3	11.3	11.2	11.3		29.0	28.9
IM17	Fine	Moderate	10:22	4.3	S	0.3	296.0	20.5	20.4	28.9	28.9	8.0	8.0	96.4	96.5	7.3	7.3	7.3	3.9	4.0	6.5	9.3	9.5	10.4		
						0.3	320.0	20.4	20.4	28.9	28.9	8.0	8.0	96.6	96.5	7.3	7.3	7.3	4.1	4.0	6.5	9.7	9.5			
					B	0.3	312.0	20.3	20.3	29.3	29.3	8.0	8.0	96.5	96.7	7.3	7.3	7.3	8.7	9.0	9.0	11.2	11.3			
						0.3	314.0	20.3	20.3	29.3	29.3	8.0	8.0	96.8	96.7	7.4	7.3	7.3	9.2	9.0	9.0	11.4	11.3			
IM18	Fine	Moderate	12:13	16.5	S	0.3	354.0	20.6	20.6	28.9	28.9	8.0	8.0	93.8	93.8	7.1	7.1	7.0	1.4	1.4	8.7	5.6	5.9	7.0		
						0.3	8.0	20.6	20.6	28.9	28.9	8.0	8.0	93.7	93.8	7.1	7.1	7.0	1.4	1.4	8.7	6.1	6.6			
					M	0.4	335.0	20.4	20.4	30.6	30.6	8.0	8.0	91.4	91.4	6.9	6.9	6.9	11.1	11.1	11.1	11.1	11.1		6.4	6.6
						0.4	337.0	20.4	20.4	30.6	30.6	8.0	8.0	91.4	91.4	6.9	6.9	6.9	11.1	11.1	11.1	11.1	11.1		6.7	6.6
					B	0.5	335.0	20.4	20.4	30.6	30.6	8.0	8.0	91.9	92.0	6.9	6.9	6.9	13.8	13.5	13.5	13.8	13.5		8.5	8.7
						0.5	336.0	20.4	20.4	30.6	30.6	8.0	8.0	92.0	92.0	6.9	6.9	6.9	13.2	13.5	13.5	13.2	13.5		8.9	8.7
IM19	Fine	Moderate	11:57	17.4	S	0.4	349.0	20.7	20.7	28.8	28.8	8.0	8.0	95.6	95.5	7.2	7.2	7.2	1.3	1.4	11.4	6.2	6.2	9.4		
						0.5	6.0	20.7	20.7	28.8	28.8	8.0	8.0	95.4	95.5	7.2	7.2	7.2	1.5	1.4	11.4	6.2	6.2			
					M	0.7	339.0	20.5	20.5	30.0	30.0	8.0	8.0	94.2	94.2	7.1	7.1	7.1	8.7	8.9	8.9	7.2	7.0			
						0.7	352.0	20.5	20.5	30.0	30.0	8.0	8.0	94.1	94.2	7.1	7.1	7.1	9.0	8.9	8.9	7.2	7.0			
					B	0.6	341.0	20.5	20.5	30.0	30.0	8.0	8.0	94.4	94.5	7.1	7.1	7.1	23.9	23.8	23.8	23.9	23.8		14.9	14.9
						0.6	358.0	20.5	20.5	30.0	30.0	8.0	8.0	94.5	94.5	7.1	7.1	7.1	23.7	23.8	23.8	23.7	23.8		14.9	14.9
IM20A	Fine	Moderate	11:22	4.6	S	0.4	69.0	22.0	21.9	28.8	28.8	7.9	7.9	97.7	97.9	7.2	7.3	7.3	7.8	7.9	8.4	16.0	15.9	16.5		
						0.4	72.0	21.9	21.9	28.9	28.9	7.9	7.9	98.1	97.9	7.3	7.3	7.3	8.0	7.9	8.4	15.8	15.9			
					B	0.3	79.0	21.2	21.3	28.9	28.9	8.0	8.0	99.8	100.1	7.5	7.5	7.5	9.2	8.9	8.9	9.2	8.9		17.0	17.2
						0.4	81.0	21.3	21.3	28.9	28.9	8.0	8.0	100.3	100.1	7.5	7.5	7.5	8.5	8.9	8.9	8.5	8.9		17.3	17.2
IM21A	Fine	Moderate	11:36	5.8	S	0.4	33.0	21.8	21.8	28.7	28.7	8.0	8.0	100.5	100.6	7.5	7.5	7.5	3.9	3.9	4.2	13.7	13.6	12.6		
						0.5	33.0	21.8	21.8	28.7	28.7	8.0	8.0	100.7	100.6	7.5	7.5	7.5	3.9	3.9	4.2	13.4	13.6			
					B	0.4	45.0	21.9	21.9	28.7	28.7	8.0	8.0	102.4	102.5	7.6	7.6	7.6	4.4	4.5	4.5	4.4	4.5		11.8	11.6
						0.4	46.0	21.9	21.9	28.7	28.7	8.0	8.0	102.5	102.5	7.6	7.6	7.6	4.5	4.5	4.5	4.5	4.5		11.3	11.6
IM22A	Fine	Moderate	11:41	5.9	S	0.1	119.0	20.7	20.7	29.5	29.5	8.0	8.0	95.3	95.4	7.2	7.2	7.2	5.2	5.2	5.5	10.6	10.8	11.8		
						0.1	120.0	20.7	20.7	29.5	29.5	8.0	8.0	95.5	95.4	7.2	7.2	7.2	5.1	5.2	5.5	11.0	10.8			
					B	0.1	118.0	20.6	20.6	29.5	29.5	8.0	8.0	96.7	96.9	7.3	7.3	7.3	5.8	5.9	5.9	5.8	5.9		12.6	12.8
						0.1	120.0	20.6	20.6	29.5	29.5	8.0	8.0	97.1	96.9	7.3	7.3	7.3	6.0	5.9	5.9	6.0	5.9		13.0	12.8

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: 2020/01/18

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		Value	Average	DA*
E1	Cloudy	Moderate	22:07	9.4	S	0.3	178.7	20.1	20.1	31.7	31.7	8.1	8.1	97.3	97.3	7.3	7.3	7.3	1.7	1.7	2.7	2.8	2.8	3.8			
						0.3	178.7	20.1	31.7	31.7	8.1	8.1	97.2	97.3	7.3	7.3	1.7		2.8								
						0.2	173.3	20.2	31.8	31.8	8.1	8.1	97.9	97.8	7.4	7.4	2.8		3.1								
					M	0.4	277.5	20.2	20.2	31.8	31.8	8.1	8.1	97.8	97.8	7.4	7.4	7.4	2.8	2.8		3.1	3.2				
						0.6	13.1	20.2	20.2	31.9	31.9	8.1	8.1	98.1	98.2	7.4	7.4		3.5			5.3					
						0.3	43.8	20.2	20.2	31.9	31.9	8.1	8.1	98.3	98.2	7.4	7.4		3.4			5.4					
E2	Cloudy	Moderate	18:32	9.5	S	1.0	27.4	20.1	20.1	32.1	32.1	8.1	8.1	104.5	104.5	7.8	7.8	7.8	3.1	3.0	3.3	3.3	3.6	5.1	<0.001		
						0.3	94.9	20.1	20.1	32.1	32.1	8.1	8.1	104.6	104.6	7.9	7.8		3.0			3.8					
						0.6	35.3	20.1	20.1	32.1	32.1	8.1	8.1	103.0	103.6	7.7	7.8		3.6			4.0					
					M	0.4	7.8	20.1	20.1	32.1	32.1	8.1	8.1	104.3	103.6	7.8	7.8	7.8	2.9	3.3		3.7	3.9		<0.001		
						0.1	276.4	20.1	20.1	32.1	32.1	8.1	8.1	103.0	101.6	7.7	7.6		3.5			8.2					
						0.1	276.4	20.1	20.1	32.1	32.1	8.1	8.1	100.3	101.6	7.5	7.6		3.8			7.8					
E3	Cloudy	Rough	19:06	17.0	S	0.2	162.0	19.3	19.3	33.5	33.5	8.3	8.3	105.9	105.9	8.0	8.0	8.0	1.7	1.7	1.9	4.0	3.8	4.2	<0.001		
						0.2	164.0	19.3	19.3	33.5	33.5	8.3	8.3	105.9	105.9	8.0	8.0		1.7			3.6					
						0.2	149.0	19.3	19.3	33.5	33.5	8.3	8.3	105.8	105.8	8.0	8.0		1.9			4.5					
					M	0.2	163.0	19.3	19.3	33.5	33.5	8.3	8.3	105.8	105.8	8.0	8.0	8.0	1.9	1.9		4.3	4.4		<0.001		
						0.2	160.0	19.3	19.3	33.5	33.5	8.3	8.3	105.0	105.0	7.9	7.9		2.2			4.4					
						0.2	162.0	19.3	19.3	33.5	33.5	8.3	8.3	104.9	105.0	7.9	7.9		2.2			4.2					
E4	Fine	Moderate	17:41	12.1	S	0.1	190.0	19.8	19.8	33.3	33.3	8.3	8.3	113.0	113.0	8.5	8.5	8.3	3.3	3.3	3.5	4.8	4.8	5.0	<0.001		
						0.1	201.0	19.8	19.8	33.3	33.3	8.3	8.3	112.9	113.0	8.5	8.5		3.3			4.7					
						0.1	183.0	19.6	19.6	33.4	33.4	8.3	8.3	108.0	108.0	8.1	8.1		3.3			5.0					
					M	0.1	199.0	19.6	19.6	33.4	33.4	8.3	8.3	108.0	108.0	8.1	8.1	8.1	3.3	3.3		4.7	4.9		<0.001		
						0.1	194.0	19.6	19.6	33.4	33.4	8.3	8.3	107.5	107.5	8.1	8.1		4.0			5.5					
						0.1	205.0	19.6	19.6	33.4	33.4	8.3	8.3	107.5	107.5	8.1	8.1		3.9			5.1					
E5	Fine	Moderate	18:13	6.5	S	0.2	54.0	19.9	19.9	31.2	31.2	8.0	8.0	109.4	109.3	8.3	8.3	8.2	4.1	4.1	5.2	4.9	4.6	5.4	<0.001		
						0.2	55.0	19.9	19.9	31.2	31.2	8.0	8.0	109.2	109.3	8.3	8.3		4.1			4.3					
						0.1	80.0	19.8	19.8	31.5	31.5	8.0	8.0	106.1	106.0	8.0	8.0		5.3			5.5					
					M	0.2	83.0	19.8	19.8	31.5	31.5	8.0	8.0	105.9	106.0	8.0	8.0	8.0	5.5	5.4		5.6	5.6		<0.001		
						0.1	76.0	19.8	19.8	31.5	31.5	8.0	8.0	104.7	104.7	7.9	7.9		6.2			5.9					
						0.1	82.0	19.8	19.8	31.5	31.5	8.0	8.0	104.7	104.7	7.9	7.9		6.1			6.2					
E6	Fine	Moderate	19:13	6.2	S	0.3	137.0	20.1	20.1	29.4	29.4	8.0	8.0	95.9	95.9	7.3	7.3	7.2	3.2	3.1	2.9	4.1	4.3	4.0	<0.001		
						0.3	140.0	20.1	20.1	29.4	29.4	8.0	8.0	95.8	95.9	7.3	7.3		3.1			4.5					
						0.3	141.0	20.1	20.1	29.8	29.8	8.0	8.0	93.7	93.6	7.1	7.1		2.8			4.2					
					M	0.3	144.0	20.1	20.1	29.9	29.9	8.0	8.0	93.5	93.6	7.1	7.1	7.2	2.8	2.8		4.3	4.3		<0.001		
						0.2	137.0	20.0	20.0	30.5	30.5	8.0	8.0	94.3	94.4	7.2	7.2		2.8			3.5					
						0.2	139.0	20.0	20.0	30.5	30.5	8.0	8.0	94.5	94.4	7.2	7.2		2.7			3.3					
B	0.2	137.0	20.0	20.0	30.5	30.5	8.0	8.0	94.3	94.4	7.2	7.2	7.2	2.8	2.7	3.5	3.4	<0.001									
	0.2	187.0	20.2	20.2	29.4	29.4	8.0	8.0	98.0	98.0	7.5	7.5		1.9		2.0											
	0.2	193.0	20.2	20.2	29.4	29.4	8.0	8.0	98.0	98.0	7.5	7.5		1.9		2.1											
E7A	Fine	Moderate	19:32	5.3	S	0.1	202.0	20.2	20.2	29.7	29.7	8.0	8.0	99.2	99.3	7.5	7.5	7.5	2.0	1.9	1.9	2.5	2.1	2.4	<0.001		
						0.1	212.0	20.3	20.3	29.7	29.7	8.0	8.0	99.3	99.3	7.5	7.5		1.9			2.8					
						0.1	202.0	20.2	20.2	29.7	29.7	8.0	8.0	99.2	99.3	7.5	7.5		2.0			2.5					
F1	Cloudy	Moderate	21:09	20.5	S	1.3	226.2	19.8	19.8	32.3	32.3	8.2	8.2	105.6	105.8	8.0	8.0	7.9	1.3	1.2		1.8	2.1		2.2	3.1	<0.001
						1.1	5.1	19.8	19.8	32.3	32.3	8.2	8.2	106.0	105.8	8.0	8.0		1.1				2.3				
						0.8	153.1	19.8	19.8	32.3	32.3	8.2	8.2	103.9	103.9	7.8	7.8		1.5				2.6				
					M	0.8	153.1	19.8	19.8	32.3	32.3	8.2	8.2	104.0	103.9	7.8	7.8	7.7	1.5	1.5	2.7		2.7	<0.001			
						0.3	322.1	19.8	19.8	32.3	32.3	8.2	8.2	102.1	101.7	7.7	7.7		2.6		4.8						
						0.3	322.1	19.8	19.8	32.3	32.3	8.2	8.2	101.3	101.7	7.6	7.7		2.8		4.1						
F2	Cloudy	Moderate	20:36	20.0	S	0.6	224.2	19.9	19.9	32.1	32.1	8.2	8.2	109.6	109.7	8.3	8.3	8.2	0.9	0.8	2.2	2.1	2.3	3.2	<0.001		
						0.6	224.2	19.9	19.9	32.1	32.1	8.2	8.2	109.8	109.7	8.3	8.3		0.7			2.4					
						0.8	79.2	19.9	19.9	32.1	32.1	8.2	8.2	106.9	107.5	8.1	8.1		0.9			2.6					
					M	0.3	358.4	19.9	19.9	32.1	32.1	8.2	8.2	108.2	107.5	8.2	8.1	8.2	0.8	0.9		2.8	2.7		<0.001		
						0.7	144.9	19.8	19.8	32.2	32.2	8.1	8.1	100.4	100.3	7.6	7.6		5.3			4.6					
						0.7	144.9	19.8	19.8	32.2	32.2	8.1	8.1	100.1	100.3	7.6	7.6		4.7			4.8					

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)		
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*	
F3	Cloudy	Moderate	19:57	18.0	S	0.3	224.9	19.8	19.8	32.2	32.2	8.2	8.2	109.3	109.4	8.3	8.3	8.2	0.5	0.5	1.4	3.6	3.5	4.4	<0.001	
						0.3	224.9	19.8	19.8	32.2	32.2	8.2	8.2	109.5	109.4	8.3	8.3		0.5	0.5		3.4	3.5		<0.001	
					M	0.5	222.4	19.8	19.8	32.2	32.2	8.2	8.2	107.6	107.7	8.1	8.1	7.9	0.8	0.8	1.4	4.1	4.2		<0.001	
						1.1	57.7	19.8	19.8	32.2	32.2	8.2	8.2	107.8	107.8	8.1	8.1		0.7	0.8		4.2	4.2		<0.001	
					B	1.3	155.8	19.7	19.7	32.2	32.2	8.2	8.2	104.8	104.3	7.9	7.9	7.9	2.6	2.8	1.4	5.2	5.5		<0.001	
						1.3	155.8	19.7	19.7	32.2	32.2	8.2	8.2	103.8	104.3	7.9	7.9		3.0	2.8		5.7	5.5		<0.001	
F4	Cloudy	Moderate	18:57	14.4	S	0.2	213.5	20.0	20.0	32.1	32.1	8.2	8.2	114.9	115.0	8.7	8.7	8.5	1.1	1.1	1.9	2.8	3.0	4.1	<0.001	
						0.4	142.6	20.0	20.0	32.1	32.1	8.2	8.2	115.1	115.0	8.7	8.7		1.2	1.1		3.1	3.0		<0.001	
					M	0.2	155.7	20.0	20.0	32.1	32.1	8.2	8.2	110.5	111.7	8.3	8.4	8.1	1.6	1.5	1.9	3.4	3.6		<0.001	
						0.5	88.0	20.0	20.0	32.1	32.1	8.2	8.2	113.0	113.0	8.5	8.4		1.4	1.5		3.7	3.6		<0.001	
					B	1.3	106.4	20.0	20.0	32.1	32.1	8.1	8.1	108.3	107.8	8.2	8.1	8.1	2.8	3.0	1.9	5.9	5.8		<0.001	
						0.2	127.2	20.0	20.0	32.1	32.1	8.1	8.1	107.2	107.8	8.1	8.1		3.1	3.0		5.7	5.8		<0.001	
F5	Fine	Moderate	17:37	6.6	S	0.0	41.0	19.8	19.8	31.8	31.9	8.0	8.0	113.1	113.1	8.6	8.6	8.3	3.5	3.6	6.5	5.3	5.4	6.9	<0.001	
						0.0	43.0	19.8	19.8	31.9	31.9	8.0	8.0	113.0	113.1	8.6	8.6		3.6	3.6		5.5	5.4		<0.001	
					M	0.0	52.0	19.7	19.7	32.3	32.3	8.0	8.0	106.5	106.4	8.1	8.0	8.0	6.8	7.0		6.5	6.5		6.5	<0.001
						0.0	51.0	19.6	19.6	32.3	32.3	8.0	8.0	106.2	106.4	8.0	8.0		7.2	7.0			6.5		6.5	<0.001
					B	0.0	61.0	19.6	19.6	32.3	32.3	8.0	8.0	105.5	105.5	8.0	8.0	8.0	9.0	8.9		6.5	8.9		8.8	<0.001
						0.0	61.0	19.6	19.6	32.3	32.3	8.0	8.0	105.5	105.5	8.0	8.0		8.8	8.9			8.6		8.8	<0.001
F6	Fine	Moderate	20:54	12.8	S	0.6	152.0	20.0	20.0	29.7	29.8	8.0	8.0	96.9	96.9	7.4	7.4	7.3	2.2	2.2	4.8	3.8	3.7	4.9	<0.001	
						0.6	162.0	20.0	20.0	29.8	29.8	8.0	8.0	96.8	96.9	7.4	7.4		2.3	2.2		3.5	3.7		<0.001	
					M	0.5	145.0	20.0	20.0	30.5	30.5	8.0	8.0	95.7	95.7	7.3	7.3	7.3	5.2	5.3		4.8	5.1		4.9	<0.001
						0.5	151.0	19.9	19.9	30.5	30.5	8.0	8.0	95.7	95.7	7.3	7.3		5.4	5.3			4.7		4.9	<0.001
					B	0.4	116.0	19.9	19.9	30.7	30.7	8.0	8.0	96.4	96.5	7.3	7.3	7.3	7.0	6.8		4.8	5.8		6.1	<0.001
						0.4	125.0	19.9	19.9	30.7	30.7	8.0	8.0	96.6	96.5	7.3	7.3		6.6	6.8			6.3		6.1	<0.001
IM1	Cloudy	Moderate	21:28	10.5	S	0.4	236.3	20.3	20.2	32.2	32.2	8.2	8.2	107.4	107.5	8.0	8.0	8.0	2.2	2.1	2.4	3.4	3.3	3.6	<0.001	
						0.3	17.9	20.2	20.2	32.2	32.2	8.2	8.2	107.6	107.5	8.1	8.0		2.1	2.1		3.2	3.3		<0.001	
					M	1.2	192.1	20.0	20.0	32.3	32.3	8.2	8.2	105.4	105.5	7.9	7.9	7.8	2.3	2.2		2.4	3.4		3.6	<0.001
						0.7	159.0	20.0	20.0	32.3	32.3	8.2	8.2	105.5	105.5	7.9	7.9		2.2	2.2			3.7		3.6	<0.001
					B	0.4	53.8	19.9	19.9	32.3	32.3	8.2	8.2	104.2	104.2	7.8	7.8	7.8	2.8	2.8		2.4	3.9		4.0	<0.001
						0.4	53.8	19.9	19.9	32.3	32.3	8.2	8.2	104.2	104.2	7.9	7.8		2.8	2.8			4.1		4.0	<0.001
IM2	Cloudy	Moderate	21:54	12.0	S	0.5	149.7	20.3	20.3	31.8	31.8	8.1	8.1	101.7	101.6	7.6	7.6	7.6	1.1	1.2	1.8	1.4	1.5	2.7	<0.001	
						0.5	149.7	20.3	20.3	31.8	31.8	8.1	8.1	101.5	101.6	7.6	7.6		1.2	1.2		1.5	1.5		<0.001	
					M	0.5	214.7	20.3	20.3	31.8	31.8	8.1	8.1	102.5	102.4	7.7	7.7	7.8	1.4	1.3		1.8	1.6		1.7	<0.001
						0.4	216.2	20.3	20.3	31.8	31.8	8.1	8.1	102.2	102.4	7.7	7.7		1.2	1.3			1.7		1.7	<0.001
					B	0.4	54.3	20.0	20.0	32.2	32.2	8.2	8.2	102.9	103.2	7.7	7.8	7.8	3.2	2.9		1.8	5.2		5.0	<0.001
						0.2	292.8	20.0	20.0	32.1	32.2	8.2	8.2	103.4	103.2	7.8	7.8		2.7	2.9			4.7		5.0	<0.001
IM3	Cloudy	Moderate	17:43	16.0	S	0.5	226.6	20.2	20.2	31.6	31.6	8.0	8.0	112.7	112.7	8.5	8.5	8.4	1.1	1.2	2.3	2.1	2.1	3.8	<0.001	
						0.5	226.6	20.2	20.2	31.6	31.6	8.0	8.0	112.8	112.7	8.5	8.5		1.2	1.2		2.0	2.1		<0.001	
					M	0.3	88.1	20.1	20.1	31.7	31.7	8.0	8.0	109.0	110.6	8.2	8.3	8.0	1.5	1.4		2.3	2.9		2.8	<0.001
						0.6	334.4	20.1	20.1	31.7	31.7	8.0	8.0	112.3	110.6	8.5	8.3		1.3	1.4			2.6		2.8	<0.001
					B	0.1	350.5	19.9	19.9	32.1	32.1	8.0	8.0	104.8	104.2	7.9	7.9	7.9	4.2	4.4		2.3	6.8		6.7	<0.001
						0.1	350.5	19.9	19.9	32.1	32.1	8.0	8.0	103.7	104.2	7.8	7.9		4.6	4.4			6.6		6.7	<0.001
IM4	Cloudy	Moderate	18:06	17.5	S	0.6	359.5	20.2	20.2	31.8	31.8	8.1	8.1	117.5	117.6	8.8	8.8	8.8	1.2	1.2	1.8	1.4	1.5	2.4	<0.001	
						0.4	67.8	20.3	20.3	31.8	31.8	8.1	8.1	117.7	117.6	8.8	8.8		1.1	1.2		1.6	1.5		<0.001	
					M	0.8	172.9	20.3	20.3	31.8	31.8	8.1	8.1	115.8	116.1	8.7	8.7	8.1	1.3	1.3		1.8	2.1		2.2	<0.001
						0.8	172.9	20.3	20.3	31.8	31.8	8.1	8.1	116.5	116.1	8.7	8.7		1.2	1.3			2.3		2.2	<0.001
					B	0.5	128.1	20.1	20.1	32.1	32.1	8.1	8.1	107.3	107.4	8.1	8.1	8.1	3.1	3.1		1.8	3.5		3.4	<0.001
						0.2	87.9	20.2	20.1	32.1	32.1	8.1	8.1	107.6	107.4	8.1	8.1		3.1	3.1			3.3		3.4	<0.001
IM5	Cloudy	Moderate	19:29	16.1	S	0.6	214.5	19.9	19.9	32.2	32.2	8.2	8.2	111.3	111.3	8.4	8.4	8.3	1.0	1.0	2.3	1.3	1.2	4.0	<0.001	
						0.3	185.9	19.9	19.9	32.2	32.2	8.2	8.2	111.4	111.3	8.4	8.4		1.1	1.0		1.1	1.2		<0.001	
					M	1.2	128.6	19.9	19.9	32.2	32.2	8.2	8.2	109.9	110.1	8.3	8.3	7.9	1.2	1.1		2.3	2.5		2.4	<0.001
						0.7	341.6	19.9	19.9	32.2	32.2	8.2	8.2	110.3	110.1	8.3	8.3		1.0	1.1			2.2		2.4	<0.001
					B	0.5	167.6	19.7	19.7	32.2	32.2	8.2	8.2	104.9	104.9	7.9	7.9	7.9	5.2	4.8		2.3	8.4		8.3	<0.001
						0.5	167.6	19.7	19.7	32.2	32.2	8.2	8.2	104.9	104.9	7.9	7.9		4.4	4.8			8.2		8.3	<0.001

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*		
IM6	Cloudy	Moderate	19:45	16.5	S	0.5	323.9	19.8	19.8	32.2	32.2	8.2	8.2	111.5	111.5	8.4	8.4	8.3	0.7	0.7	1.2	0.5	0.5	2.0	<0.001		
						0.8	326.2	19.8	19.8	32.2	32.2	8.2	8.2	111.6	111.6	8.4	8.4		0.8								
					M	0.3	184.8	19.8	19.8	32.2	32.2	8.2	8.2	109.2	109.6	8.2	8.3	0.8	0.8	1.8		1.8	1.8			1.8	<0.001
						0.6	256.7	19.8	19.8	32.2	32.2	8.2	8.2	110.0	109.6	8.3	8.3	0.8		1.7			<0.001				
					B	0.6	193.2	19.7	19.7	32.2	32.2	8.2	8.2	106.1	105.7	8.0	8.0	2.0	2.0	3.6		3.6	3.6			3.7	<0.001
						0.6	193.2	19.7	19.7	32.2	32.2	8.2	8.2	105.4	105.7	8.0	8.0	2.1		3.8			0.011				
IM7	Cloudy	Rough	20:11	14.9	S	0.1	191.0	19.3	19.3	33.5	33.5	8.3	8.3	108.9	108.9	8.2	8.2	8.2	1.3	1.2	1.3	1.2	1.3	1.6	<0.001		
						0.1	196.0	19.3	19.3	33.5	33.5	8.3	8.3	108.9	108.9	8.2	8.2		1.2								
					M	0.1	192.0	19.3	19.3	33.5	33.5	8.3	8.3	108.6	108.6	8.2	8.2	1.2	1.2	1.7		1.7	1.7			1.7	<0.001
						0.1	196.0	19.3	19.3	33.5	33.5	8.3	8.3	108.6	108.6	8.2	8.2	1.2		1.8			<0.001				
					B	0.2	58.0	19.3	19.3	33.5	33.5	8.3	8.3	107.8	107.8	8.2	8.1	1.7	1.6	1.8		1.9	1.8			1.9	<0.001
						0.2	59.0	19.3	19.3	33.5	33.5	8.3	8.3	107.7	107.8	8.1	8.1	1.6		2.0			0.011				
IM8	Cloudy	Rough	19:59	13.0	S	0.2	163.0	19.3	19.3	33.5	33.5	8.3	8.3	108.9	108.9	8.2	8.2	8.2	1.1	1.1	1.2	1.8	1.8	1.7	<0.001		
						0.2	170.0	19.3	19.3	33.5	33.5	8.3	8.3	108.9	108.9	8.2	8.2		1.0								
					M	0.1	133.0	19.3	19.3	33.5	33.5	8.3	8.3	108.5	108.5	8.2	8.2	1.0	1.1	1.8		1.8	1.8			1.8	<0.001
						0.1	146.0	19.3	19.3	33.5	33.5	8.3	8.3	108.4	108.5	8.2	8.2	1.1		1.7			<0.001				
					B	0.1	118.0	19.3	19.3	33.5	33.5	8.3	8.3	107.2	107.2	8.1	8.1	1.3	1.4	1.6		1.6	1.6			1.6	<0.001
						0.1	129.0	19.3	19.3	33.5	33.5	8.3	8.3	107.2	107.2	8.1	8.1	1.4		1.6			0.011				
IM9	Cloudy	Rough	19:36	15.1	S	0.2	108.0	19.4	19.4	33.5	33.5	8.3	8.3	109.2	109.3	8.3	8.3	8.2	1.0	1.0	1.1	1.2	1.3	1.7	<0.001		
						0.2	118.0	19.4	19.4	33.5	33.5	8.3	8.3	109.3	109.3	8.3	8.3		1.0								
					M	0.2	122.0	19.4	19.4	33.5	33.5	8.3	8.3	108.8	108.8	8.2	8.2	1.1	1.1	1.8		1.7	1.8			1.8	<0.001
						0.2	132.0	19.4	19.4	33.5	33.5	8.3	8.3	108.8	108.8	8.2	8.2	1.1		1.6			<0.001				
					B	0.2	84.0	19.4	19.4	33.5	33.5	8.3	8.3	108.0	108.0	8.2	8.2	1.2	1.2	2.2		2.2	2.2			2.2	<0.001
						0.2	90.0	19.4	19.4	33.5	33.5	8.3	8.3	108.0	108.0	8.2	8.2	1.2		2.1			<0.001				
IM10	Cloudy	Moderate	18:51	10.8	S	0.2	108.0	19.8	19.8	33.4	33.4	8.3	8.3	110.1	110.1	8.3	8.3	8.3	2.6	2.5	2.4	10.3	10.3	7.0	<0.001		
						0.3	115.0	19.8	19.8	33.4	33.4	8.3	8.3	110.1	110.1	8.3	8.3		2.5								
					M	0.3	90.0	19.8	19.8	33.4	33.4	8.3	8.3	110.1	110.1	8.3	8.3	2.1	2.1	6.8		6.7	6.8			6.7	<0.001
						0.3	93.0	19.8	19.8	33.4	33.4	8.3	8.3	110.1	110.1	8.3	8.3	2.1		6.6			<0.001				
					B	0.2	71.0	19.6	19.6	33.4	33.4	8.3	8.3	108.4	108.4	8.2	8.2	2.5	2.5	4.3		4.1	4.3			4.1	<0.001
						0.2	73.0	19.6	19.6	33.4	33.4	8.3	8.3	108.3	108.4	8.2	8.2	2.5		3.9			<0.001				
IM11A	Cloudy	Moderate	18:33	4.5	S	0.5	139.0	19.7	19.7	33.4	33.4	8.3	8.3	107.8	107.8	8.1	8.1	8.1	6.9	6.9	7.9	12.9	13.0	12.5	<0.001		
						0.5	149.0	19.7	19.7	33.4	33.4	8.3	8.3	107.8	107.8	8.1	8.1		7.0								
					B	0.5	132.0	19.7	19.7	33.4	33.4	8.2	8.2	107.4	107.4	8.1	8.1	8.9	8.9	12.3		12.1	12.3			12.1	<0.001
						0.5	137.0	19.7	19.7	33.4	33.4	8.2	8.2	107.4	107.4	8.1	8.1	8.9		11.9			<0.001				
					S	0.4	160.0	19.7	19.7	33.4	33.4	8.3	8.3	109.8	109.8	8.3	8.3	3.1	3.1	3.3		3.4	3.3			3.4	<0.001
						0.4	161.0	19.7	19.7	33.4	33.4	8.3	8.3	109.8	109.8	8.3	8.3	3.1		3.4			<0.001				
IM12	Cloudy	Rough	18:23	16.3	M	0.3	159.0	19.5	19.5	33.5	33.5	8.3	8.3	108.0	108.0	8.1	8.1	8.2	2.7	2.7	3.0	4.0	3.8	3.9	<0.001		
						0.3	169.0	19.5	19.5	33.5	33.5	8.3	8.3	107.9	108.0	8.1	8.1		2.7			3.6				<0.001	
					B	0.3	151.0	19.4	19.4	33.5	33.5	8.3	8.3	106.8	106.8	8.1	8.1	3.3	3.3	4.4		4.4	4.4			4.4	<0.001
						0.3	165.0	19.4	19.4	33.5	33.5	8.3	8.3	106.8	106.8	8.1	8.1	3.3		4.4			<0.001				
					S	0.2	223.0	19.5	19.5	33.4	33.4	8.3	8.3	109.7	109.7	8.3	8.3	2.6	2.6	3.6		3.7	3.6			3.7	<0.001
						0.2	234.0	19.5	19.5	33.4	33.4	8.3	8.3	109.6	109.7	8.3	8.3	2.6		3.7			<0.001				
M	0.2	211.0	19.5	19.5	33.5	33.5	8.3	8.3	108.7	108.7	8.2	8.2	2.9	2.9	3.5	3.6	3.5	3.6	<0.001								
	0.2	226.0	19.5	19.5	33.5	33.5	8.3	8.3	108.7	108.7	8.2	8.2	2.9		3.6		<0.001										
IM13	Fine	Moderate	18:01	17.2	B	0.1	186.0	19.5	19.5	33.5	33.5	8.3	8.3	107.7	107.7	8.1	8.1	8.1	3.1	3.1	2.9	4.1	4.1	3.8	<0.001		
						0.1	202.0	19.5	19.5	33.5	33.5	8.3	8.3	107.7	107.7	8.1	8.1		3.0								
					S	0.4	193.0	19.7	19.7	33.3	33.3	8.3	8.3	110.9	110.9	8.3	8.3	4.3	4.3	6.2		6.3	6.2			6.3	<0.001
						0.4	194.0	19.7	19.7	33.3	33.3	8.3	8.3	110.8	110.9	8.3	8.3	4.3		6.3			<0.001				
					M	0.3	187.0	19.6	19.6	33.4	33.4	8.2	8.2	106.8	106.8	8.0	8.0	3.8	3.8	6.3		6.4	6.3			6.4	<0.001
						0.3	189.0	19.6	19.6	33.4	33.4	8.2	8.2	106.8	106.8	8.0	8.0	3.8		6.4			<0.001				
B	0.3	184.0	19.6	19.6	33.4	33.4	8.2	8.2	105.8	105.8	8.0	8.0	4.9	4.9	6.2	6.2	6.2	6.2	<0.001								
	0.3	202.0	19.6	19.6	33.4	33.4	8.2	8.2	105.7	105.8	8.0	8.0	4.9		6.2		<0.001										

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)	
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*
IM15	Fine	Moderate	18:01	6.8	S	0.2	18.0	19.8	19.8	31.3	31.3	8.1	8.1	107.5	107.5	8.2	8.1	8.1	8.1	5.6	6.6	5.6	6.0	7.5	
						0.2	18.0	19.8		31.4	31.3	8.1		107.4	107.5	8.1		8.1	5.7	5.7		6.0			
						0.2	35.0	19.8		31.6	31.6	8.1		106.6	106.6	8.1		8.1	6.9	6.9		6.6	6.8		
					M	0.2	36.0	19.8	31.6	31.6	8.1	106.6	106.6	8.1	8.1	8.1	8.1	6.9	6.9	6.6	6.8				
						0.1	53.0	19.8	31.6	31.6	8.0	105.4	105.4	8.0	8.0	8.0	8.0	7.4	7.4	10.1	10.0				
						0.1	55.0	19.8	31.6	31.6	8.0	105.3	105.4	8.0	8.0	8.0	8.0	7.4	7.4	9.9	10.0				
IM16A	Fine	Moderate	18:27	6.7	S	0.2	107.0	19.7	19.7	30.3	30.4	8.0	8.0	102.5	102.7	7.8	7.9	7.8	7.9	7.9	7.4	7.9	8.4	9.3	
						0.2	114.0	19.7		30.4	30.4	8.0		102.8	102.7	7.9		7.8	8.0	7.9		8.0	8.2		
						0.2	92.0	19.8		30.9	30.9	8.0		104.5	104.5	7.9		7.9	7.4	7.3		9.4	9.5		
					M	0.2	95.0	19.8	30.9	30.9	8.0	104.5	104.5	7.9	7.9	7.3	7.3	9.6	9.5						
						0.1	61.0	19.8	31.0	31.0	8.0	104.0	104.0	7.9	7.9	6.9	6.9	10.4	10.3						
						0.1	66.0	19.8	31.0	31.0	8.0	104.0	104.0	7.9	7.9	6.9	6.9	10.2	10.3						
IM17	Fine	Moderate	18:48	5.4	S	0.2	110.0	19.9	19.9	29.5	29.5	8.0	8.0	100.8	100.8	7.7	7.7	7.7	7.7	5.1	5.2	5.1	5.4	6.2	
						0.3	115.0	19.9		29.5	29.5	8.0		100.8	100.8	7.7		7.7	5.1	5.1		5.7	5.6		
						0.2	107.0	19.9		29.5	29.5	8.0		101.0	101.0	7.7		7.7	5.3	5.3		6.8	6.9		
					B	0.2	107.0	19.9	29.5	29.5	8.0	101.0	101.0	7.7	7.7	5.3	5.3	7.0	6.9						
						0.5	149.0	20.1	29.6	29.6	8.0	96.1	95.9	7.3	7.3	2.3	2.3	2.2	2.3						
						0.6	155.0	20.1	29.7	29.6	8.0	95.7	95.9	7.3	7.3	2.3	2.3	2.4	2.3						
IM18	Fine	Moderate	20:33	17.1	M	0.4	154.0	20.1	20.1	30.0	30.0	8.0	8.0	94.2	94.1	7.2	7.2	7.2	7.2	2.5	4.5	2.5	3.2	3.1	
						0.4	162.0	20.1		30.0	30.0	8.0		94.0	94.1	7.2		7.2	2.5	2.5		3.3	3.3		
						0.4	146.0	20.0		30.5	30.5	8.0		92.4	92.5	7.0		7.0	8.6	8.6		3.5	3.6		
					B	0.4	153.0	20.0	30.5	30.5	8.0	92.5	92.5	7.0	7.0	8.6	8.6	3.7	3.6						
						0.5	175.0	20.4	29.9	29.9	8.0	97.9	97.9	7.4	7.4	1.5	1.5	1.6	1.8						
						0.6	189.0	20.4	29.9	29.9	8.0	97.9	97.9	7.4	7.4	1.5	1.5	1.9	1.8						
IM19	Fine	Moderate	20:22	18.2	M	0.5	164.0	20.2	20.2	30.1	30.2	8.0	8.0	94.8	94.6	7.2	7.3	7.2	7.2	2.0	2.5	2.0	2.1	2.1	
						0.6	176.0	20.2		30.2	30.2	8.0		94.4	94.6	7.2		7.2	2.1	2.1		2.0	2.1		
						0.4	147.0	20.0		30.8	30.8	8.0		93.4	93.4	7.1		7.1	4.1	4.1		2.5	2.6		
					B	0.4	159.0	20.0	30.8	30.8	8.0	93.4	93.4	7.1	7.1	4.1	4.1	2.6	2.6						
						0.4	242.0	20.9	29.1	29.2	8.0	97.9	97.9	7.4	7.4	5.7	5.7	6.2	6.5						
						0.5	266.0	20.8	29.2	29.2	8.0	97.9	97.9	7.4	7.4	5.6	5.6	6.8	6.5						
IM20A	Fine	Moderate	19:53	5.0	B	0.3	234.0	20.6	20.6	29.4	29.4	7.9	7.9	98.2	98.3	7.4	7.4	7.4	7.4	5.8	6.5	5.8	7.0	6.7	
						0.3	249.0	20.6		29.4	29.4	7.9		98.3	98.3	7.4		7.4	9.0	7.4		6.9	7.0		
						0.3	199.0	20.7		29.6	29.6	8.0		97.2	97.3	7.3		7.3	4.2	4.2		6.0	6.2		
					S	0.3	217.0	20.6	29.6	29.6	8.0	97.3	97.3	7.3	7.3	4.2	4.2	6.3	6.2						
						0.2	194.0	20.6	29.6	29.6	7.9	98.2	98.3	7.4	7.4	4.1	4.1	5.9	6.1						
						0.2	195.0	20.6	29.6	29.6	7.9	98.3	98.3	7.4	7.4	4.2	4.1	6.2	6.1						
IM21A	Fine	Moderate	20:02	5.2	B	0.4	224.0	22.2	22.2	29.7	29.7	8.0	8.0	100.0	100.1	7.3	7.3	7.3	7.3	3.9	3.9	3.9	4.5	4.9	
						0.4	242.0	22.2		29.7	29.7	8.0		100.1	100.1	7.3		7.3	3.9	3.9		4.1	4.3		
						0.4	211.0	22.2		29.7	29.7	7.9		100.7	100.9	7.4		7.4	3.8	3.8		5.7	5.6		
					S	0.4	220.0	22.2	29.7	29.7	7.9	101.0	100.9	7.4	7.4	3.8	3.8	5.4	5.6						

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		Value
E1	Cloudy	Moderate	10:31	9.0	S	0.7	200.2	20.1	20.1	31.5	31.5	8.0	8.0	95.5	95.5	7.2	7.2	7.2	1.1	1.1	3.2	3.4	4.6
						0.7	197.8	20.1	20.1	31.5	31.5	8.0	8.0	95.5	95.5	7.2	7.2	7.2	1.1	1.1	3.6	3.4	
						1.2	245.2	20.1	20.1	31.6	31.6	8.0	8.0	96.2	96.1	7.3	7.2	7.2	2.2	2.1	4.4	4.6	
					M	0.4	76.6	20.1	20.1	31.6	31.6	8.0	8.0	95.9	96.1	7.2	7.2	7.2	1.9	2.1	4.7	4.6	
						0.8	216.0	20.1	20.1	31.9	31.9	8.0	8.0	96.5	96.5	7.3	7.3	7.3	5.0	5.0	6.0	5.9	
						0.8	302.4	20.1	20.1	31.9	31.9	8.0	8.0	96.5	96.5	7.3	7.3	7.3	4.9	5.0	5.7	5.9	
E2	Cloudy	Moderate	13:55	9.5	S	0.4	104.8	20.6	20.6	32.1	32.1	8.3	8.3	103.6	103.7	7.7	7.7	7.7	2.5	2.5	6.2	6.6	8.9
						0.4	104.8	20.6	20.6	32.1	32.1	8.3	8.3	103.7	103.7	7.7	7.7	7.7	2.5	2.5	6.9	6.6	
						0.2	98.9	20.1	20.1	32.2	32.1	8.3	8.3	99.2	99.3	7.5	7.5	7.5	3.6	3.4	7.6	7.3	
					M	0.5	266.9	20.1	20.1	32.1	32.1	8.3	8.3	99.4	99.3	7.5	7.5	7.5	3.1	3.4	7.0	7.3	
						0.4	256.7	20.0	20.0	32.2	32.2	8.3	8.3	98.9	98.3	7.4	7.4	7.4	6.1	6.6	13.0	12.9	
						0.4	310.4	20.0	20.0	32.2	32.2	8.3	8.3	97.7	97.7	7.3	7.3	7.4	7.0	6.6	12.7	12.9	
E3	Sunny	Rough	13:03	16.7	S	0.6	317.0	19.8	19.8	33.5	33.5	8.3	8.3	110.5	110.5	8.3	8.3	8.1	1.1	1.1	2.7	3.0	4.4
						0.6	329.0	19.8	19.8	33.5	33.5	8.3	8.3	110.5	110.5	8.3	8.3	8.3	1.1	1.1	3.3	3.0	
						0.6	323.0	19.3	19.3	33.5	33.5	8.3	8.3	108.3	108.3	8.2	8.2	8.2	3.7	3.7	3.6	3.8	
					M	0.6	341.0	19.3	19.3	33.5	33.5	8.3	8.3	108.3	108.3	8.2	8.2	8.2	3.6	3.7	4.0	3.8	
						0.5	319.0	19.3	19.3	33.5	33.5	8.2	8.2	107.6	107.6	8.1	8.1	8.1	6.0	6.0	6.6	6.5	
						0.5	330.0	19.3	19.3	33.5	33.5	8.2	8.2	107.6	107.6	8.1	8.1	8.1	6.0	6.0	6.4	6.5	
E4	Sunny	Moderate	14:21	12.3	S	0.5	37.0	19.6	19.6	33.4	33.4	8.2	8.2	106.2	106.2	8.0	8.0	8.0	5.8	5.9	7.7	7.8	12.4
						0.5	37.0	19.6	19.6	33.4	33.4	8.2	8.2	106.1	106.1	8.0	8.0	8.0	6.0	6.0	7.8	7.8	
						0.5	36.0	19.6	19.6	33.4	33.4	8.2	8.2	105.0	105.0	7.9	7.9	7.9	8.3	8.3	13.7	13.8	
					M	0.5	39.0	19.6	19.6	33.4	33.4	8.2	8.2	105.0	105.0	7.9	7.9	7.9	8.4	8.3	13.9	13.8	
						0.4	45.0	19.5	19.5	33.4	33.4	8.2	8.2	104.1	104.1	7.8	7.8	7.8	9.3	9.4	15.4	15.6	
						0.4	48.0	19.5	19.5	33.4	33.4	8.2	8.2	104.1	104.1	7.8	7.8	7.8	9.5	9.4	15.7	15.6	
E5	Fine	Moderate	14:47	5.7	S	0.4	31.0	19.8	19.8	30.2	30.2	8.1	8.1	102.1	102.1	7.8	7.8	7.8	10.0	10.0	16.8	16.7	16.1
						0.5	32.0	19.8	19.8	30.3	30.3	8.1	8.1	102.1	102.1	7.8	7.8	7.8	10.0	10.0	16.5	16.7	
						0.5	19.0	19.8	19.8	30.3	30.3	8.1	8.1	102.0	102.1	7.8	7.8	7.8	14.0	13.9	15.2	15.6	
					B	0.5	19.0	19.8	19.8	30.3	30.3	8.1	8.1	102.1	102.1	7.8	7.8	7.8	13.8	13.9	15.9	15.6	
						0.6	344.0	20.2	20.2	29.8	29.8	8.1	8.1	92.0	92.0	7.0	7.0	7.0	8.6	8.9	11.6	11.5	
						0.6	8.0	20.2	20.2	29.9	29.9	8.1	8.1	91.9	91.9	7.0	7.0	7.0	9.2	8.9	11.4	11.5	
E6	Fine	Moderate	13:41	5.6	S	0.5	345.0	20.1	20.1	30.0	30.0	8.1	8.1	91.7	91.7	7.0	7.0	7.0	11.0	11.0	8.9	9.1	10.3
						0.5	16.0	20.1	20.1	30.0	30.0	8.1	8.1	91.7	91.7	7.0	7.0	7.0	11.0	11.0	9.3	9.1	
						0.4	16.0	20.1	20.1	29.0	29.0	8.1	8.1	96.8	96.9	7.4	7.4	7.4	2.3	2.4	3.2	3.4	
					B	0.4	17.0	20.1	20.1	29.0	29.0	8.1	8.1	97.0	97.0	7.4	7.4	7.4	2.4	2.4	3.5	3.4	
						0.3	15.0	20.1	20.1	29.1	29.0	8.1	8.1	98.4	98.5	7.5	7.5	7.5	2.7	2.7	4.7	4.9	
						0.4	15.0	20.1	20.1	29.0	29.0	8.1	8.1	98.5	98.5	7.5	7.5	7.5	2.6	2.6	5.1	4.9	
E7A	Fine	Moderate	13:18	4.9	S	0.3	249.4	20.1	20.1	32.0	32.0	8.2	8.2	107.4	107.6	8.1	8.1	8.1	1.0	1.1	2.9	3.0	4.1
						0.3	249.4	20.1	20.1	32.0	32.0	8.2	8.2	107.7	107.6	8.1	8.1	8.1	1.1	1.1	3.1	3.0	
						0.9	353.2	19.9	19.9	32.2	32.2	8.2	8.2	103.7	104.2	7.8	7.9	7.9	0.9	0.9	3.6	3.5	
					M	0.9	353.2	19.9	19.9	32.2	32.2	8.2	8.2	104.7	104.7	7.9	7.9	7.9	0.8	0.9	3.4	3.5	
						0.8	37.3	19.8	19.8	32.3	32.3	8.2	8.2	100.9	100.9	7.6	7.6	7.6	3.0	3.1	6.1	6.0	
						0.8	37.3	19.8	19.8	32.3	32.3	8.2	8.2	100.8	100.9	7.6	7.6	7.6	3.1	3.1	5.9	6.0	
F1	Cloudy	Moderate	11:29	20.5	S	0.5	144.6	20.1	20.1	31.8	31.8	8.2	8.2	107.4	107.5	8.1	8.1	8.0	1.1	1.1	2.6	2.8	4.2
						0.3	251.9	20.1	20.1	31.8	31.8	8.2	8.2	107.6	107.5	8.1	8.1	8.0	1.1	1.1	2.9	2.8	
						0.8	193.5	19.8	19.8	32.1	32.1	8.3	8.2	104.0	104.1	7.9	7.9	7.9	0.7	0.7	3.5	3.7	
					M	1.1	331.5	19.8	19.8	32.1	32.1	8.2	8.2	104.2	104.1	7.9	7.9	7.9	0.6	0.7	3.9	3.7	
						0.4	11.7	19.7	19.7	32.2	32.2	8.3	8.3	102.0	101.2	7.7	7.6	7.6	2.7	2.7	5.9	6.1	
						0.4	11.7	19.7	19.7	32.2	32.2	8.3	8.3	100.3	101.2	7.6	7.6	7.6	2.7	2.7	6.3	6.1	
F2	Cloudy	Moderate	11:58	20.0	S	0.5	144.6	20.1	20.1	31.8	31.8	8.2	8.2	107.4	107.5	8.1	8.1	8.0	1.1	1.1	2.6	2.8	4.2
						0.3	251.9	20.1	20.1	31.8	31.8	8.2	8.2	107.6	107.5	8.1	8.1	8.0	1.1	1.1	2.9	2.8	
						0.8	193.5	19.8	19.8	32.1	32.1	8.3	8.2	104.0	104.1	7.9	7.9	7.9	0.7	0.7	3.5	3.7	
					M	1.1	331.5	19.8	19.8	32.1	32.1	8.2	8.2	104.2	104.1	7.9	7.9	7.9	0.6	0.7	3.9	3.7	
						0.4	11.7	19.7	19.7	32.2	32.2	8.3	8.3	102.0	101.2	7.7	7.6	7.6	2.7	2.7	5.9	6.1	
						0.4	11.7	19.7	19.7	32.2	32.2	8.3	8.3	100.3	101.2	7.6	7.6	7.6	2.7	2.7	6.3	6.1	

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*					
F3	Cloudy	Moderate	12:34	18.0	S	0.5	237.9	20.1	20.1	32.1	32.1	8.3	8.3	112.6	112.9	8.5	8.5	8.3	0.5	0.5	1.4	2.4	2.3	3.2	<0.001					
						0.5	237.9	20.2		32.1		8.3		113.1		8.5			0.5			2.2			<0.001					
						0.9	262.7	19.7	19.7	32.2	8.3	106.1	8.0	1.4	3.4	<0.001														
					M	0.2	28.8	19.7	19.6	32.2	32.2	8.3	8.3	107.2	106.7	8.1	8.1		7.8	7.8	7.8	2.4	2.4		2.4	4.0	4.0	<0.001		
						0.6	89.1	19.7		32.2		8.3		103.9		7.9			2.3		4.0	<0.001								
						0.6	89.1	19.6		32.2		8.3		103.5		7.8			2.3		4.0	<0.001								
F4	Cloudy	Moderate	13:28	14.0	S	0.4	21.3	20.2	20.1	32.1	32.1	8.3	8.3	112.1	112.2	8.4	8.4	8.3	0.3	0.3	1.4	3.8	3.6	6.1	<0.001					
						0.4	21.3	20.1		32.1		8.3		112.2		8.4			0.3			3.4			<0.001					
					M	0.7	307.2	19.8	19.8	32.1	32.1	8.3	8.3	109.3	109.4	8.3	8.3		8.3	8.3	8.3	6.0	6.0		1.3	6.9	6.5	11.9	<0.001	
						0.2	247.5	19.8		32.2		8.3		109.5		8.3			6.9		<0.001									
					B	0.5	299.8	19.7	19.7	32.2	32.2	8.3	8.3	106.8	106.8	8.1	8.1		8.1	8.1	8.1	4.2	4.2		4.2	8.0	8.2		11.9	<0.001
						0.8	276.4	19.7		32.2		8.3		106.8		8.1			8.3		8.3	<0.001								
F5	Fine	Moderate	15:26	6.2	S	0.2	20.0	19.9	19.9	31.7	31.7	8.1	8.1	112.4	112.4	8.5	8.5	8.5	5.6	5.6	5.3	14.8	14.9	11.9	<0.001					
						0.2	20.0	19.9		31.7		8.1		112.3		8.5			5.6			14.9			<0.001					
					M	0.2	17.0	19.9	19.9	31.7	31.7	8.1	8.1	112.2	112.2	8.5	8.5		8.5	8.5	8.5	5.3	5.3		5.3	11.3	11.3	11.9		<0.001
						0.2	18.0	19.9		31.7		8.1		112.1		8.5			5.3		11.2	<0.001								
					B	0.1	12.0	19.7	19.7	32.0	32.0	8.1	8.1	106.7	106.6	8.1	8.1		8.1	8.1	8.1	6.8	6.8		6.9	9.7	9.5		11.9	<0.001
						0.1	12.0	19.7		32.0		8.1		106.5		8.1			7.1		9.2	<0.001								
F6	Fine	Moderate	11:42	12.6	S	0.2	294.0	20.3	20.3	29.9	29.9	8.1	8.1	94.8	94.7	7.2	7.2	7.2	1.6	1.6	2.2	3.7	3.5	4.8	<0.001					
						0.3	294.0	20.2		29.9		8.1		94.6		7.2			1.6			3.3			<0.001					
					M	0.4	313.0	20.1	20.2	30.0	30.0	8.1	8.1	94.0	94.0	7.1	7.1		7.1	7.1	7.1	2.2	2.3		2.3	4.4	4.6	4.8		<0.001
						0.4	332.0	20.2		30.0		8.1		94.0		7.1			2.3		4.7	<0.001								
					B	0.4	302.0	20.1	20.1	30.3	30.3	8.1	8.1	92.2	92.3	7.0	7.0		7.0	7.0	7.0	8.0	8.1		8.1	6.0	6.3		4.8	<0.001
						0.4	309.0	20.1		30.3		8.1		92.3		7.0			8.2		6.5	<0.001								
IM1	Cloudy	Moderate	11:10	10.1	S	0.6	86.4	20.2	20.1	32.2	32.2	8.2	8.2	107.2	107.5	8.0	8.1	8.0	1.7	1.7	2.2	4.3	4.5	6.6	<0.001					
						0.4	62.2	20.1		32.2		8.2		107.7		8.1			1.6			4.7			<0.001					
					M	0.1	125.2	20.0	20.0	32.2	32.2	8.2	8.2	105.6	105.7	8.0	8.0		8.0	8.0	8.0	2.2	2.2		2.2	6.7	6.8	6.6		<0.001
						0.2	290.6	20.0		32.2		8.2		105.8		8.0			2.2		6.8	<0.001								
					B	0.4	204.3	20.0	20.0	32.3	32.3	8.2	8.2	104.4	104.2	7.9	7.8		7.8	7.8	7.8	4.8	4.9		4.9	8.4	8.6		6.6	<0.001
						0.4	110.1	20.0		32.3		8.2		104.0		7.8			4.9		8.8	<0.001								
IM2	Cloudy	Moderate	10:46	11.9	S	1.2	293.6	20.1	20.1	31.7	31.7	8.1	8.1	98.4	98.4	7.4	7.4	7.4	1.2	1.3	2.7	2.6	2.5	4.9	<0.001					
						0.5	274.6	20.1		31.7		8.1		98.3		7.4			1.3			2.3			<0.001					
					M	0.4	21.6	20.0	20.0	31.9	31.8	8.1	8.1	99.5	99.2	7.5	7.5		7.5	7.5	7.5	2.7	2.6		2.6	4.8	5.1	4.9		<0.001
						0.4	21.6	20.0		31.8		8.1		98.9		7.5			2.5		5.3	<0.001								
					B	0.5	9.0	20.0	20.0	32.2	32.2	8.1	8.1	101.1	101.2	7.6	7.6		7.6	7.6	7.6	3.5	3.5		3.5	7.4	7.3		4.9	<0.001
						0.5	9.0	20.0		32.2		8.1		101.2		7.6			3.4		7.1	<0.001								
IM3	Cloudy	Moderate	14:46	15.5	S	0.5	166.5	20.6	20.6	31.7	31.7	8.3	8.3	113.2	113.6	8.5	8.5	8.3	1.1	1.1	1.3	3.0	2.8	5.3	<0.001					
						0.6	346.2	20.6		31.7		8.3		113.9		8.5			1.1			2.5			<0.001					
					M	0.8	196.9	20.0	20.0	32.0	32.0	8.3	8.3	106.4	106.8	8.0	8.0		8.0	8.0	8.0	1.3	1.3		1.3	5.6	5.7	5.3		<0.001
						0.1	4.8	20.0		32.0		8.3		107.2		8.1			1.3		5.8	<0.001								
					B	0.4	257.6	19.9	19.9	32.2	32.2	8.3	8.3	105.0	104.9	7.9	7.9		7.9	7.9	7.9	2.4	2.4		2.4	7.5	7.5		5.3	<0.001
						0.6	271.1	19.9		32.2		8.3		104.7		7.9			2.4		7.4	<0.001								
IM4	Cloudy	Moderate	14:24	17.5	S	0.6	253.1	20.4	20.4	32.1	32.1	8.3	8.3	111.9	112.3	8.4	8.4	8.3	1.5	1.5	1.0	3.5	3.3	4.6	<0.001					
						0.6	253.1	20.4		32.1		8.3		112.7		8.4			1.5			3.0			<0.001					
					M	0.4	251.5	20.0	20.0	32.1	32.1	8.3	8.3	108.2	108.3	8.1	8.1		8.1	8.1	8.1	1.1	1.1		1.1	3.9	3.8	4.6		<0.001
						0.4	251.5	20.0		32.1		8.3		108.3		8.2			1.0		3.6	<0.001								
					B	0.4	81.2	19.7	19.7	32.2	32.2	8.4	8.3	105.5	105.3	8.0	8.0		8.0	8.0	8.0	3.0	3.0		3.0	6.9	6.8		4.6	<0.001
						0.4	81.2	19.7		32.2		8.3		105.0		7.9			2.9		6.6	<0.001								
IM5	Cloudy	Moderate	13:01	15.5	S	0.6	194.3	20.3	20.3	32.1	32.1	8.3	8.3	112.8	113.1	8.4	8.5	8.2	0.5	0.5	1.2	4.6	4.4	6.5	<0.001					
						7.4	256.9	20.3		32.1		8.3		113.3		8.5			0.5			4.1			<0.001					
					M	0.7	275.7	19.7	19.7	32.2	32.2	8.3	8.3	105.7	105.8	8.0	8.0		8.0	8.0	8.0	1.3	1.2		1.2	6.9	6.8	6.5		<0.001
						1.0	307.8	19.7		32.2		8.3		105.9		8.0			1.1		6.6	<0.001								
					B	1.5	81.4	19.7	19.7	32.2	32.2	8.3	8.3	105.0	104.6	7.9	7.9		7.9	7.9	7.9	3.1	3.3		3.3	8.2	8.3		6.5	<0.001
						0.3	145.4	19.7		32.2		8.3		104.1		7.9			3.5		8.3	<0.001								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*					
IM6	Cloudy	Moderate	12:45	16.5	S	0.8	304.1	20.3	20.3	32.1	32.1	8.3	8.3	113.3	113.5	8.5	8.3	0.4	0.4	1.1	2.1	3.2	<0.001							
						0.8	304.1	20.3		32.1	32.1	8.3	8.3	113.7	113.5	8.5		0.4	0.4		2.2		<0.001							
					M	0.5	217.8	19.7	19.7	32.2	32.2	8.3	8.3	106.5	107.6	8.1	8.3	0.9	0.9		2.8		<0.001							
						0.3	200.5	19.7	19.7	32.2	32.2	8.3	8.3	108.7	107.6	8.2		0.8	0.9		2.6		<0.001							
					B	0.2	296.1	19.6	19.6	32.2	32.2	8.3	8.3	105.1	104.5	8.0	8.3	2.1	2.2		4.9		<0.001							
						0.5	16.3	19.6	19.6	32.2	32.2	8.3	8.3	103.9	104.5	7.9		2.2	2.2		4.5		<0.001							
IM7	Sunny	Rough	12:02	14.8	S	0.3	285.0	19.6	19.6	33.4	33.4	8.3	8.3	110.1	110.1	8.3	8.1	0.6	0.6	1.1	1.9	3.7	<0.001							
						0.4	309.0	19.6	19.6	33.4	33.4	8.3	8.3	110.0	110.1	8.3		0.6	0.6		1.9		<0.001							
					M	0.3	275.0	19.2	19.2	33.5	33.5	8.2	8.2	104.9	104.9	8.0	8.1	1.0	1.0		2.5		<0.001							
						0.3	281.0	19.2	19.2	33.5	33.5	8.2	8.2	104.9	104.9	7.9		1.0	1.0		2.7		<0.001							
					B	0.3	275.0	19.2	19.2	33.5	33.5	8.2	8.2	103.1	103.1	7.8	8.1	1.7	1.7		6.7		<0.001							
						0.3	294.0	19.2	19.2	33.5	33.5	8.2	8.2	103.1	103.1	7.8		1.7	1.7		6.5		<0.001							
IM8	Sunny	Rough	12:11	13.1	S	0.4	258.0	19.6	19.6	33.5	33.5	8.2	8.2	105.6	105.6	7.9	7.9	0.8	0.8	1.2	1.1	3.1	<0.001							
						0.4	278.0	19.6	19.6	33.5	33.5	8.2	8.2	105.6	105.6	7.9		0.9	0.8		1.3		<0.001							
					M	0.3	265.0	19.2	19.2	33.5	33.5	8.2	8.2	103.9	103.9	7.9	7.9	1.3	1.3		3.0		<0.001							
						0.3	288.0	19.2	19.2	33.5	33.5	8.2	8.2	103.9	103.9	7.9		1.2	1.3		3.4		<0.001							
					B	0.3	262.0	19.2	19.2	33.5	33.5	8.2	8.2	103.5	103.5	7.8	7.8	1.5	1.5		5.1		<0.001							
						0.3	286.0	19.2	19.2	33.5	33.5	8.2	8.2	103.4	103.5	7.8		1.6	1.5		4.7		<0.001							
IM9	Sunny	Rough	12:38	15.0	S	0.6	312.0	19.7	19.7	33.5	33.5	8.2	8.2	106.2	106.2	8.0	7.9	0.7	0.7	2.2	2.5	3.5	<0.001							
						0.6	331.0	19.7	19.7	33.5	33.5	8.2	8.2	106.2	106.2	8.0		0.7	0.7		2.3		<0.001							
					M	0.4	320.0	19.2	19.2	33.5	33.5	8.2	8.2	104.7	104.7	7.9	7.9	1.6	1.6		3.2		<0.001							
						0.5	340.0	19.2	19.2	33.5	33.5	8.2	8.2	104.7	104.7	7.9		1.7	1.6		3.4		<0.001							
					B	0.5	326.0	19.2	19.2	33.5	33.5	8.2	8.2	104.5	104.5	7.9	7.9	4.4	4.3		4.8		<0.001							
						0.5	342.0	19.2	19.2	33.5	33.5	8.2	8.2	104.4	104.4	7.9		4.3	4.3		4.5		<0.001							
IM10	Sunny	Rough	13:20	11.4	S	0.9	275.0	20.0	20.0	33.4	33.4	8.2	8.2	110.4	110.4	8.2	8.0	2.1	2.1	5.6	3.8	8.2	<0.001							
						0.9	276.0	20.0	20.0	33.4	33.4	8.2	8.2	110.3	110.4	8.2		2.1	2.1		4.2		<0.001							
					M	0.8	275.0	19.6	19.6	33.4	33.4	8.2	8.2	104.1	104.1	7.8	8.0	5.6	5.7		7.4		<0.001							
						0.9	275.0	19.6	19.6	33.4	33.4	8.2	8.2	104.1	104.1	7.8		5.7	5.7		7.0		<0.001							
					B	0.7	275.0	19.6	19.6	33.4	33.4	8.2	8.2	103.8	103.8	7.8	7.8	8.9	9.0		13.2		<0.001							
						0.8	295.0	19.6	19.6	33.4	33.4	8.2	8.2	103.8	103.8	7.8		9.2	9.0		13.7		<0.001							
IM11A	Sunny	Moderate	13:31	4.7	S	0.3	314.0	19.8	19.8	33.4	33.4	8.2	8.2	107.7	107.7	8.1	8.1	8.4	8.6	11.1	20.1	26.5	<0.001							
						0.3	327.0	19.8	19.8	33.4	33.4	8.2	8.2	107.6	107.7	8.1		8.8	8.6		20.5		<0.001							
					B	0.3	314.0	19.7	19.7	33.4	33.4	8.2	8.2	105.8	105.8	7.9	7.9	13.7	13.7		32.9		<0.001							
						0.3	341.0	19.7	19.7	33.4	33.4	8.2	8.2	105.7	105.8	7.9		13.6	13.7		32.4		<0.001							
					IM12	Sunny	Moderate	13:42	16.6	S	0.8	332.0	19.6	19.6	33.4	33.4	8.2	8.2	107.9		107.9		8.1	8.1	5.0	5.1	7.6	14.0	16.3	<0.001
											0.9	355.0	19.6	19.6	33.4	33.4	8.2	8.2	107.9		107.9		8.1		5.2	5.1		14.7		<0.001
M	0.9	338.0	19.5	19.5						33.4	33.4	8.2	8.2	107.5	107.5	8.1	8.0	7.1	7.1	16.3	<0.001									
	0.9	352.0	19.5	19.5						33.4	33.4	8.2	8.2	107.5	107.5	8.1		7.1	7.1	16.8	<0.001									
B	0.8	349.0	19.5	19.5						33.4	33.4	8.2	8.2	106.6	106.6	8.0	8.0	10.6	10.5	18.3	<0.001									
	0.9	10.0	19.5	19.5						33.4	33.4	8.2	8.2	106.6	106.6	8.0		10.5	10.5	17.9	<0.001									
IM13	Sunny	Moderate	14:00	16.4	S	0.7	357.0	19.6	19.6	33.4	33.4	8.3	8.3	107.4	107.4	8.1	8.0	3.7	3.7	7.8	11.7	15.5	<0.001							
						0.7	30.0	19.6	19.6	33.4	33.4	8.3	8.3	107.4	107.4	8.1		3.7	3.7		11.3		<0.001							
					M	0.7	0.0	19.5	19.5	33.4	33.4	8.2	8.2	105.7	105.7	8.0	8.0	5.9	5.9		14.8		<0.001							
						0.7	0.0	19.5	19.5	33.4	33.4	8.2	8.2	105.7	105.7	8.0		5.8	5.9		14.1		<0.001							
					B	0.6	359.0	19.5	19.5	33.4	33.4	8.2	8.2	104.9	104.9	7.9	7.9	14.1	13.9		20.2		<0.001							
						0.6	14.0	19.5	19.5	33.4	33.4	8.2	8.2	104.9	104.9	7.9		13.7	13.9		20.6		<0.001							
IM14	Sunny	Moderate	14:11	10.9	S	0.5	12.0	19.7	19.7	33.4	33.4	8.2	8.2	107.4	107.4	8.1	8.0	6.5	6.4	9.1	13.6	19.4	<0.001							
						0.5	13.0	19.7	19.7	33.4	33.4	8.2	8.2	107.3	107.4	8.1		6.3	6.4		13.2		<0.001							
					M	0.5	10.0	19.6	19.6	33.4	33.4	8.2	8.2	105.7	105.7	8.0	8.0	8.6	8.6		21.8		<0.001							
						0.5	10.0	19.6	19.6	33.4	33.4	8.2	8.2	105.7	105.7	8.0		8.6	8.6		21.2		<0.001							
					B	0.4	16.0	19.6	19.6	33.4	33.4	8.2	8.2	105.1	105.1	7.9	7.9	12.4	12.2		23.4		<0.001							
						0.4	16.0	19.6	19.6	33.4	33.4	8.2	8.2	105.1	105.1	7.9		12.0	12.2		23.0		<0.001							

Water Quality Monitoring Data Log Sheet

Date: 2020/01/18

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
IM15	Fine	Moderate	15:00	5.8	S	0.5	19.0	19.8	19.8	30.9	30.9	8.1	8.1	103.1	103.1	7.9	7.9	7.9	8.8	8.9	9.5	10.1	9.9	12.3
						0.6	20.0	19.8	30.9	30.9	8.1	8.1	103.1	103.1	7.9	7.9	7.9	9.0	9.0	9.5	9.6			
					B	0.4	23.0	19.7	19.7	30.9	30.9	8.1	8.1	103.0	103.0	7.8	7.8	7.8	10.0	10.1	9.5	14.8	14.8	
						0.4	23.0	19.7	19.7	30.9	30.9	8.1	8.1	103.0	103.0	7.9	7.9	7.8	10.1	10.1	9.5	14.7	14.8	
IM16A	Fine	Moderate	14:31	5.9	S	0.4	19.0	20.0	20.0	29.7	29.7	8.1	8.1	101.9	101.9	7.8	7.8	7.8	5.3	5.3	5.3	8.0	8.2	8.6
						0.4	19.0	20.0	20.0	29.7	29.7	8.1	8.1	101.9	101.9	7.8	7.8	7.8	5.3	5.3	5.3	8.4	8.2	
					B	0.4	18.0	19.9	19.9	29.7	29.7	8.1	8.1	102.0	102.0	7.8	7.8	7.8	5.3	5.4	5.3	8.9	9.1	
						0.4	19.0	19.9	19.9	29.7	29.7	8.1	8.1	102.0	102.0	7.8	7.8	7.8	5.4	5.4	5.3	9.2	9.1	
IM17	Fine	Moderate	14:08	5.2	S	0.4	0.0	20.2	20.2	29.2	29.2	8.1	8.1	97.5	97.5	7.4	7.4	7.4	2.6	2.6	6.4	7.1	7.0	8.8
						0.5	0.0	20.2	20.2	29.2	29.2	8.1	8.1	97.5	97.5	7.4	7.4	7.4	2.6	2.6	6.4	6.8	7.0	
					B	0.4	356.0	20.2	20.2	29.4	29.4	8.1	8.1	96.9	97.0	7.4	7.4	7.4	9.5	10.1	6.4	10.6	10.7	
						0.4	24.0	20.2	20.2	29.4	29.4	8.1	8.1	97.0	97.0	7.4	7.4	7.4	10.7	10.7	6.4	10.8	10.7	
IM18	Fine	Moderate	12:14	16.6	S	0.3	322.0	20.2	20.2	28.7	28.7	8.1	8.1	95.8	95.8	7.3	7.3	7.2	1.6	1.6	4.4	5.2	5.4	6.9
						0.3	349.0	20.2	20.2	28.7	28.7	8.1	8.1	95.8	95.8	7.3	7.3	7.2	1.6	1.6	4.4	5.6	5.4	
					M	0.5	334.0	20.1	20.1	30.1	30.1	8.1	8.1	92.0	92.0	7.0	7.0	7.0	2.5	2.5	4.4	6.0	6.2	
						0.5	345.0	20.1	20.1	30.2	30.1	8.1	8.1	92.0	92.0	7.0	7.0	7.0	2.5	2.5	4.4	6.3	6.2	
					B	0.5	338.0	20.1	20.1	30.5	30.5	8.1	8.1	91.9	92.0	7.0	7.0	7.0	8.6	9.2	4.4	9.1	9.3	
						0.5	356.0	20.1	20.1	30.5	30.5	8.1	8.1	92.0	92.0	7.0	7.0	7.0	9.8	9.2	4.4	9.4	9.3	
IM19	Fine	Moderate	12:29	18.4	S	0.4	9.0	20.3	20.3	28.9	28.9	8.0	8.0	94.9	94.9	7.2	7.2	7.1	1.6	1.6	8.4	3.1	3.1	4.0
						0.4	9.0	20.3	20.3	28.9	28.9	8.0	8.0	94.8	94.9	7.2	7.2	7.1	1.6	1.6	8.4	3.0	3.1	
					M	0.6	349.0	20.2	20.2	30.2	30.2	8.1	8.1	92.2	92.2	7.0	7.0	7.0	10.2	10.4	8.4	3.7	3.6	
						0.6	18.0	20.2	20.2	30.2	30.2	8.1	8.1	92.2	92.2	7.0	7.0	7.0	10.6	10.4	8.4	3.4	3.6	
					B	0.5	341.0	20.2	20.2	30.2	30.2	8.1	8.1	92.9	92.9	7.0	7.0	7.0	12.9	13.1	8.4	5.2	5.5	
						0.5	353.0	20.2	20.2	30.2	30.2	8.1	8.1	92.9	92.9	7.1	7.0	7.0	13.3	13.1	8.4	5.7	5.5	
IM20A	Fine	Moderate	12:59	4.6	S	0.4	66.0	21.4	21.4	29.3	29.3	8.0	8.0	98.0	98.0	7.3	7.3	7.3	7.0	7.0	7.0	7.3	7.6	8.6
						0.4	70.0	21.4	21.4	29.3	29.3	8.0	8.0	98.0	98.0	7.3	7.3	7.3	7.0	7.0	7.0	7.9	7.6	
					B	0.4	69.0	21.2	21.2	29.3	29.3	8.1	8.1	98.9	99.0	7.4	7.4	7.4	7.0	7.0	7.0	9.2	9.5	
						0.4	71.0	21.2	21.2	29.3	29.3	8.1	8.1	99.0	99.0	7.4	7.4	7.4	6.9	7.0	7.0	9.8	9.5	
IM21A	Fine	Moderate	12:47	4.9	S	0.2	13.0	21.4	21.4	29.5	29.5	8.1	8.1	97.6	97.6	7.3	7.3	7.3	5.2	5.3	5.6	6.9	7.2	7.6
						0.2	13.0	21.3	21.3	29.5	29.5	8.1	8.1	97.6	97.6	7.3	7.3	7.3	5.3	5.3	5.6	7.4	7.2	
					B	0.1	11.0	21.2	21.2	29.5	29.5	8.1	8.1	98.4	98.4	7.4	7.4	7.4	6.0	6.0	5.6	7.8	8.0	
						0.1	11.0	21.2	21.2	29.5	29.5	8.1	8.1	98.7	98.6	7.4	7.4	7.4	6.0	6.0	5.6	8.1	8.0	
IM22A	Fine	Moderate	12:42	4.3	S	0.4	45.0	20.5	20.5	29.5	29.5	8.1	8.1	94.3	94.3	7.1	7.1	7.1	4.0	4.0	4.0	4.4	4.7	5.4
						0.4	46.0	20.5	20.5	29.5	29.5	8.1	8.1	94.3	94.3	7.1	7.1	7.1	4.0	4.0	4.0	4.9	4.7	
					B	0.3	48.0	20.4	20.4	29.5	29.5	8.1	8.1	94.3	94.4	7.2	7.2	7.2	4.1	4.1	4.0	6.1	6.2	
						0.3	52.0	20.4	20.4	29.5	29.5	8.1	8.1	94.4	94.4	7.2	7.2	7.2	4.1	4.1	4.0	6.2	6.2	

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: 2020/01/20

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity (NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	
E1	Cloudy	Moderate	23:09	9.0	S	0.3	248.5	20.0	20.0	31.9	31.9	8.1	8.1	106.3	106.3	8.0	8.0	8.0	2.9	3.1	3.6	7.5	7.5	6.7
						0.3	248.5	20.0	31.9	31.9	8.1	8.1	106.3	106.3	8.0	8.0	3.2		3.1	7.5		7.5		
					M	0.6	171.8	20.0	20.0	31.9	31.9	8.1	8.1	106.1	106.1	8.0	8.0	3.5	3.7	7.1	7.0			
						0.6	171.8	20.0	20.0	31.9	31.9	8.1	8.1	106.0	106.0	8.0	8.0	3.9	3.7	6.9	7.0			
					B	0.7	242.2	20.0	20.0	31.9	31.9	8.1	8.1	105.9	105.9	8.0	8.0	4.2	4.0	5.9	5.7			
						0.5	200.3	20.0	20.0	31.9	31.9	8.1	8.1	105.9	105.9	8.0	8.0	3.7	4.0	5.5	5.7			
E2	Cloudy	Moderate	19:55	9.5	S	0.7	100.0	20.1	20.1	32.1	32.1	8.1	8.1	113.2	113.9	8.5	8.6	8.2	1.7	1.7	2.4	7.2	7.5	5.7
						0.7	100.0	20.1	20.1	32.1	32.1	8.1	8.1	114.5	113.9	8.6	8.6		1.6	1.7		7.7	7.5	
					M	1.0	126.1	20.1	20.1	32.1	32.1	8.1	8.1	104.8	104.8	7.9	7.9	2.7	2.7	5.6	5.5			
						1.0	126.1	20.1	20.1	32.1	32.1	8.1	8.1	104.8	104.8	7.9	7.9	2.7	2.7	5.4	5.5			
					B	0.4	190.7	20.0	20.0	32.1	32.1	8.1	8.1	104.6	104.5	7.9	7.9	2.5	2.7	3.8	4.1			
						0.4	190.7	20.0	20.0	32.1	32.1	8.1	8.1	104.3	104.3	7.8	7.9	2.9	2.7	4.3	4.1			
E3	Cloudy	Moderate	20:59	17.1	S	0.4	151.0	19.4	19.4	33.3	33.3	8.3	8.3	113.8	113.8	8.6	8.6	8.3	1.7	1.7	2.2	4.2	4.4	3.2
						0.4	159.0	19.4	19.4	33.3	33.3	8.3	8.3	113.8	113.8	8.6	8.6		1.7	1.7		4.6	4.4	
					M	0.3	139.0	19.3	19.3	33.6	33.6	8.3	8.3	105.9	105.8	8.0	8.0	2.1	2.1	2.8	3.0			
						0.3	147.0	19.3	19.3	33.6	33.6	8.3	8.3	105.7	105.8	8.0	8.0	2.1	2.1	3.1	3.0			
					B	0.3	108.0	19.4	19.4	33.7	33.7	8.3	8.3	102.9	102.9	7.8	7.8	2.8	2.8	2.1	2.2			
						0.3	111.0	19.4	19.4	33.7	33.7	8.3	8.3	103.0	103.0	7.8	7.8	2.8	2.8	2.2	2.2			
E4	Cloudy	Moderate	19:32	12.3	S	0.2	204.0	19.4	19.4	33.4	33.4	8.3	8.3	112.3	112.3	8.5	8.5	8.5	2.7	2.7	3.1	5.6	5.5	6.4
						0.2	215.0	19.4	19.4	33.4	33.4	8.3	8.3	112.3	112.3	8.5	8.5		2.7	2.7		5.4	5.5	
					M	0.1	212.0	19.4	19.4	33.4	33.4	8.3	8.3	111.7	111.7	8.4	8.4	3.2	3.2	5.9	6.2			
						0.1	224.0	19.4	19.4	33.4	33.4	8.3	8.3	111.7	111.7	8.4	8.4	3.2	3.2	6.5	6.2			
					B	0.2	211.0	19.3	19.3	33.4	33.4	8.2	8.2	108.9	108.9	8.2	8.2	3.6	3.6	7.9	7.6			
						0.2	218.0	19.3	19.3	33.4	33.4	8.2	8.2	108.9	108.9	8.2	8.2	3.6	3.6	7.2	7.6			
E5	Cloudy	Moderate	19:49	6.6	S	0.1	106.0	19.2	19.2	32.2	32.2	8.1	8.1	109.2	109.2	8.3	8.3	8.3	4.5	4.5	4.8	5.3	5.3	6.1
						0.1	107.0	19.2	19.2	32.2	32.2	8.1	8.1	109.2	109.2	8.3	8.3		4.5	4.5		5.3	5.3	
					M	0.1	90.0	19.2	19.2	32.2	32.2	8.1	8.1	108.9	108.9	8.3	8.3	4.9	4.9	6.3	6.2			
						0.1	92.0	19.2	19.2	32.2	32.2	8.1	8.1	108.8	108.8	8.3	8.3	4.9	4.9	6.0	6.2			
					B	0.1	73.0	19.2	19.2	32.2	32.2	8.1	8.1	106.8	106.7	8.2	8.1	5.1	5.1	6.6	6.8			
						0.1	73.0	19.2	19.2	32.2	32.2	8.1	8.1	106.6	106.7	8.1	8.1	5.1	5.1	6.9	6.8			
E6	Cloudy	Moderate	20:52	6.7	S	0.3	149.0	19.7	19.7	30.9	30.9	8.1	8.1	98.5	98.4	7.5	7.5	7.4	2.9	2.9	3.4	2.8	2.6	3.5
						0.4	158.0	19.7	19.7	30.9	30.9	8.1	8.1	98.3	98.4	7.5	7.5		3.0	2.9		2.4	2.6	
					M	0.3	155.0	19.7	19.7	31.0	31.0	8.1	8.1	96.5	96.4	7.4	7.3	3.4	3.5	3.8	3.8			
						0.3	155.0	19.7	19.7	31.1	31.0	8.1	8.1	96.3	96.4	7.3	7.3	3.5	3.5	3.7	3.8			
					B	0.2	173.0	19.7	19.7	31.1	31.1	8.1	8.1	96.3	96.4	7.3	7.3	3.9	3.8	4.1	4.1			
						0.2	183.0	19.6	19.7	31.1	31.1	8.1	8.1	96.5	96.4	7.4	7.3	3.8	3.8	4.1	4.1			
E7A	Cloudy	Moderate	21:11	5.4	S	0.3	196.0	19.7	19.7	30.3	30.4	8.1	8.1	97.1	97.1	7.4	7.4	7.4	2.3	2.3	2.9	1.1	1.2	1.9
						0.3	209.0	19.7	19.7	30.4	30.4	8.1	8.1	97.0	97.1	7.4	7.4		2.3	2.3		1.2	1.2	
					B	0.2	194.0	19.7	19.7	31.1	31.1	8.1	8.1	96.4	96.5	7.3	7.3	3.5	3.4	2.5	2.7			
						0.2	197.0	19.7	19.7	31.1	31.1	8.1	8.1	96.5	96.5	7.3	7.3	3.4	3.4	2.8	2.7			
F1	Cloudy	Moderate	22:14	20.5	S	0.8	209.9	19.8	19.8	32.3	32.3	8.2	8.2	107.4	107.9	8.1	8.1	7.9	0.8	0.8	1.5	1.3	1.2	3.8
						0.8	209.9	19.8	19.8	32.3	32.3	8.2	8.2	108.4	107.9	8.2	8.1		0.8	0.8		1.1	1.2	
					M	0.4	109.7	19.8	19.8	32.4	32.4	8.1	8.1	99.9	100.9	7.5	7.6	1.3	1.3	3.5	3.8			
						0.5	150.3	19.8	19.8	32.4	32.4	8.1	8.1	101.9	100.9	7.7	7.6	1.2	1.3	4.1	3.8			
					B	0.5	172.0	19.8	19.8	32.5	32.5	8.1	8.1	98.0	97.8	7.4	7.4	2.4	2.3	6.6	6.5			
						0.5	172.0	19.8	19.8	32.5	32.5	8.1	8.1	97.5	97.8	7.3	7.3	2.2	2.3	6.4	6.5			
F2	Cloudy	Moderate	21:46	20.0	S	0.5	158.7	19.8	19.8	32.4	32.4	8.2	8.2	109.0	109.2	8.2	8.2	8.1	0.6	0.6	1.1	0.5	0.5	1.5
						0.7	121.8	19.8	19.8	32.4	32.4	8.2	8.2	109.3	109.2	8.2	8.2		0.6	0.6		0.5	0.5	
					M	0.7	106.4	19.9	19.9	32.4	32.4	8.2	8.2	104.7	105.8	7.9	8.0	0.8	0.8	1.4	1.3			
						0.4	104.0	19.9	19.9	32.4	32.4	8.2	8.2	106.9	105.8	8.1	8.0	0.7	0.8	1.1	1.3			
					B	0.6	64.0	19.9	19.9	32.4	32.4	8.1	8.1	100.5	99.6	7.6	7.5	1.9	2.0	2.8	2.9			
						0.6	64.0	19.9	19.9	32.4	32.4	8.1	8.1	98.7	99.6	7.4	7.5	2.1	2.0	2.9	2.9			

Water Quality Monitoring Data Log Sheet

Date: 2020/01/20

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)	
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*
F3	Cloudy	Moderate	21:10	18.5	S	1.8	189.0	19.9	19.8	32.3	32.3	8.2	8.2	112.6	112.8	8.5	8.5	8.4	0.6	0.7	1.1	2.7	2.9	3.1	<0.001
						1.8	189.0	19.8	19.9	32.3	32.3	8.2	8.2	113.0	109.3	8.5	8.2		0.7			3.2			<0.001
						0.3	245.2	19.9	19.9	32.3	32.3	8.2	8.2	108.9	109.3	8.2	8.2		0.7			3.1			<0.001
					M	0.3	245.2	19.9	19.9	32.4	32.4	8.2	8.2	109.6	109.3	8.3	8.2	0.6	3.4	3.1	0.002				
						0.8	205.3	19.8	19.8	32.4	32.4	8.1	8.1	103.8	102.8	7.8	7.8	2.0	3.3	3.4	<0.001				
						0.8	205.3	19.8	19.8	32.5	32.4	8.1	8.1	101.8	102.8	7.7	7.8	2.1	3.3	3.4	<0.001				
F4	Cloudy	Moderate	20:19	14.2	S	0.9	56.2	20.0	20.0	32.1	32.1	8.1	8.1	113.5	113.1	8.6	8.5	8.6	1.7	1.7	1.6	2.6	2.9	4.2	2.7
						0.5	80.1	20.0	19.8	32.1	32.1	8.1	8.2	112.7	115.8	8.5	8.7		1.6			4.2			3.9
						0.2	4.8	19.8	19.8	32.1	32.1	8.2	8.2	115.8	115.9	8.7	8.7		1.4			3.6			3.9
					M	0.4	114.8	19.8	19.8	32.1	32.1	8.2	8.2	116.0	113.6	8.8	8.6	8.6	1.6	6.0	5.8				
						0.8	300.3	19.8	19.8	32.1	32.1	8.2	8.2	113.6	113.8	8.6	8.6		1.6	5.5	5.8				
						0.5	48.2	19.8	19.8	32.1	32.1	8.2	8.2	113.9	113.8	8.6	8.6		1.7	5.5	5.8				
F5	Cloudy	Moderate	19:13	6.5	S	0.1	80.0	19.2	19.2	32.4	32.4	8.1	8.1	108.7	108.7	8.3	8.3	8.3	5.1	5.1	5.7	8.2	8.0	10.5	7.7
						0.1	83.0	19.2	19.2	32.4	32.4	8.1	8.1	108.6	108.3	8.3	8.3		5.1			10.1			10.5
						0.1	60.0	19.2	19.2	32.4	32.4	8.1	8.1	108.3	108.3	8.3	8.3		6.1			10.9			10.5
					M	0.1	60.0	19.2	19.2	32.4	32.4	8.1	8.1	108.2	108.3	8.3	8.3	6.3	13.3	13.0					
						0.1	73.0	19.2	19.2	32.4	32.4	8.1	8.1	107.5	107.5	8.2	8.2	6.0	12.6	13.0					
						0.1	79.0	19.2	19.2	32.4	32.4	8.1	8.1	107.4	107.5	8.2	8.2	5.5	5.2	5.6					
F6	Cloudy	Moderate	22:29	13.0	S	0.7	143.0	19.5	19.6	30.9	30.9	8.1	8.1	102.8	102.7	7.9	7.8	7.8	3.0	3.0	6.0	5.2	6.3	6.9	5.9
						0.7	149.0	19.6	19.6	30.9	30.9	8.1	8.1	102.6	102.9	7.8	7.8		3.0			6.0			6.3
						0.5	132.0	19.6	19.6	31.2	31.2	8.1	8.1	102.8	102.9	7.8	7.8		2.9			6.5			6.3
					M	0.6	138.0	19.6	19.6	31.2	31.2	8.1	8.1	102.9	102.9	7.8	7.8	3.0	8.6	8.9					
						0.4	119.0	19.5	19.5	31.3	31.3	8.1	8.1	107.2	107.2	8.2	8.2	12.1	9.1	8.9					
						0.4	130.0	19.5	19.5	31.3	31.3	8.1	8.1	107.1	107.2	8.2	8.2	12.0	7.4	7.5					
IM1	Cloudy	Moderate	22:35	10.1	S	0.8	153.2	20.0	20.0	32.3	32.3	8.1	8.1	108.3	108.5	8.1	8.1	8.0	1.7	1.7	2.1	7.6	7.5	6.3	7.6
						0.2	6.9	19.9	19.9	32.3	32.4	8.1	8.1	105.0	105.2	7.9	7.9		2.2			6.3			6.5
						0.2	6.9	19.9	19.9	32.4	32.4	8.1	8.1	105.4	105.2	7.9	7.9		2.4			6.7			6.5
					M	0.8	356.0	19.9	19.9	32.5	32.5	8.1	8.1	101.6	101.4	7.6	7.6	7.6	2.6	4.9	5.0				
						0.3	246.5	19.9	19.9	32.5	32.5	8.1	8.1	101.1	101.4	7.6	7.6		2.2	5.0	5.0				
						0.4	145.6	20.0	20.0	32.0	32.0	8.1	8.1	111.1	111.3	8.4	8.4		1.8	4.7	4.5				
IM2	Cloudy	Moderate	22:57	12.0	S	0.4	118.9	20.0	20.0	32.0	32.0	8.1	8.1	111.5	111.3	8.4	8.4	8.3	1.7	1.8	2.6	4.7	4.5	6.5	4.2
						0.6	127.0	20.0	20.0	32.0	32.0	8.1	8.1	108.3	108.7	8.2	8.2		2.0			5.9			5.6
						0.7	165.1	20.0	20.0	32.0	32.0	8.1	8.1	109.1	108.7	8.2	8.2		1.8			5.2			5.6
					M	0.3	151.5	19.9	19.9	32.3	32.3	8.1	8.1	103.5	103.5	7.8	7.8	7.8	4.3	9.2	9.5				
						0.3	151.5	19.9	19.9	32.3	32.3	8.1	8.1	103.4	103.5	7.8	7.8		3.9	9.7	9.5				
						0.4	345.8	20.0	20.0	31.9	31.9	8.0	8.0	118.5	119.2	8.9	9.0		1.2	2.6	3.0				
IM3	Cloudy	Moderate	19:10	16.0	S	0.4	345.8	20.0	20.0	31.9	31.9	8.1	8.0	118.5	119.2	8.9	9.0	8.7	1.3	1.3	2.0	3.4	3.0	4.4	3.4
						0.6	3.7	19.9	19.9	32.0	32.0	8.0	8.0	110.4	111.2	8.3	8.4		1.4			3.5			3.7
						0.4	126.2	19.9	19.9	32.0	32.0	8.0	8.0	112.0	111.2	8.5	8.4		1.3			3.8			3.7
					M	0.2	359.7	19.7	19.7	32.2	32.2	8.0	8.0	101.9	101.0	7.7	7.6	7.6	3.2	6.7	6.5				
						0.6	77.8	19.7	19.7	32.2	32.2	8.0	8.0	100.1	101.0	7.6	7.6		3.4	6.3	6.5				
						0.7	352.2	19.9	19.9	32.1	32.1	8.1	8.1	118.6	118.8	8.9	9.0		0.8	3.5	3.6				
IM4	Cloudy	Moderate	19:30	17.5	S	0.7	352.2	19.9	19.9	32.1	32.1	8.1	8.1	118.9	118.8	9.0	9.0	8.8	0.7	0.8	1.9	3.7	3.6	4.7	3.7
						0.5	49.5	19.9	19.9	32.1	32.1	8.1	8.1	113.0	113.9	8.5	8.6		1.2			4.1			4.1
						0.7	1.6	19.9	19.9	32.1	32.1	8.1	8.1	114.8	113.9	8.7	8.7		1.1			4.1			4.1
					M	0.7	348.6	19.7	19.7	32.3	32.3	8.0	8.0	103.7	102.3	7.8	7.7	7.7	3.6	6.6	6.3				
						0.7	348.6	19.7	19.7	32.3	32.3	8.0	8.0	100.9	102.3	7.6	7.7		3.7	6.0	6.3				
						0.6	27.5	19.8	19.8	32.2	32.2	8.2	8.2	114.7	114.8	8.7	8.7		0.7	2.0	1.9				
IM5	Cloudy	Moderate	20:46	16.2	S	0.6	27.5	19.8	19.8	32.2	32.2	8.2	8.2	114.7	114.8	8.7	8.7	8.5	0.6	0.7	1.2	1.7	2.7	3.3	1.7
						0.3	339.6	19.8	19.8	32.2	32.2	8.2	8.2	109.8	110.4	8.3	8.3		0.9			2.7			2.7
						1.7	150.9	19.8	19.8	32.3	32.2	8.2	8.2	111.0	110.4	8.4	8.3		0.8			2.6			2.7
					M	0.8	95.8	19.7	19.7	32.4	32.4	8.1	8.1	104.6	103.9	7.9	7.8	7.8	1.9	5.8	5.5				
						0.8	95.8	19.7	19.7	32.4	32.4	8.1	8.1	103.2	103.9	7.8	7.8		2.1	5.2	5.5				

Water Quality Monitoring Data Log Sheet

Date: 2020/01/20

Tide: Mid-Ebb

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*
IM6	Cloudy	Moderate	20:59	17.0	S	0.3	209.4	19.8	19.8	32.2	32.2	8.2	8.2	113.4	114.0	8.6	8.6	8.4	0.7	0.7	1.2	3.2	3.4	5.4	<0.001
						0.3	209.4	19.8	19.8	32.2	32.2	8.2	8.2	114.5	114.0	8.6	8.6		0.6			3.6			<0.001
						0.5	321.4	19.8	19.8	32.4	32.4	8.2	8.2	107.8	108.0	8.1	8.1		0.9			5.1			<0.001
					M	0.5	87.3	19.8	19.8	32.4	32.4	8.2	8.2	108.2	108.0	8.2	8.1	8.1	1.0	1.0	5.9	5.5	<0.001		
						0.6	201.0	19.8	19.8	32.4	32.4	8.1	8.1	104.6	104.1	7.9	7.8	7.8	2.0	2.1	7.6	7.3	<0.001		
						0.6	201.0	19.8	19.8	32.4	32.4	8.1	8.1	103.5	103.5	7.8	7.8	7.8	2.1	2.1	6.9	6.9	<0.001		
IM7	Cloudy	Moderate	22:17	14.4	S	0.3	116.0	19.3	19.3	33.6	33.6	8.3	8.3	106.9	106.9	8.1	8.1	8.0	1.2	1.2	1.7	3.0	2.9	4.8	3.0
						0.4	117.0	19.3	19.3	33.6	33.6	8.3	8.3	106.8	106.8	8.1	8.1		1.2			2.7			2.7
						0.4	116.0	19.4	19.4	33.7	33.7	8.3	8.3	105.9	105.9	8.0	8.0		1.4			5.3			5.4
					M	0.4	121.0	19.4	19.4	33.7	33.7	8.3	8.3	105.9	105.9	8.0	8.0	8.0	1.5	1.4	5.4	5.4	6.2		
						0.3	109.0	19.4	19.4	33.7	33.7	8.2	8.2	105.0	105.0	7.9	7.9	7.9	2.5	2.5	6.4	6.2	6.2		
						0.3	118.0	19.4	19.4	33.7	33.7	8.2	8.2	105.0	105.0	7.9	7.9	7.9	2.5	2.5	6.0	6.0	6.0		
IM8	Cloudy	Moderate	21:50	14.4	S	0.2	70.0	19.4	19.4	33.6	33.6	8.3	8.3	106.6	106.6	8.0	8.0	8.0	0.9	0.9	1.1	2.6	2.3	3.2	2.6
						0.2	74.0	19.4	19.4	33.6	33.6	8.3	8.3	106.5	106.5	8.0	8.0		1.0			2.0			2.0
						0.3	79.0	19.4	19.4	33.7	33.7	8.3	8.3	105.7	105.7	8.0	8.0		1.1			3.1			3.1
					M	0.3	82.0	19.4	19.4	33.7	33.7	8.3	8.3	105.6	105.6	8.0	8.0	8.0	1.1	1.1	3.2	3.2	3.2		
						0.3	64.0	19.4	19.4	33.7	33.7	8.3	8.3	104.8	104.8	7.9	7.9	7.9	1.3	1.3	4.3	4.1	4.1		
						0.3	68.0	19.4	19.4	33.7	33.7	8.3	8.3	104.8	104.8	7.9	7.9	7.9	1.3	1.3	3.9	3.9	3.9		
IM9	Cloudy	Rough	21:26	15.2	S	0.5	118.0	19.3	19.3	33.4	33.4	8.3	8.3	111.6	111.5	8.5	8.4	8.3	1.3	1.3	1.7	2.2	2.1	2.5	2.2
						0.5	124.0	19.3	19.3	33.4	33.4	8.3	8.3	111.4	111.5	8.4	8.4		1.3			2.0			2.0
						0.5	115.0	19.3	19.3	33.5	33.5	8.3	8.3	108.5	108.5	8.2	8.2		8.2			1.3			1.3
					M	0.5	124.0	19.3	19.3	33.5	33.5	8.3	8.3	108.5	108.5	8.2	8.2	8.2	1.3	1.3	2.6	2.6	2.6		
						0.4	97.0	19.3	19.3	33.6	33.6	8.3	8.3	105.5	105.5	8.0	8.0	8.0	2.4	2.4	2.7	2.7	2.7		
						0.4	101.0	19.3	19.3	33.6	33.6	8.3	8.3	105.4	105.4	8.0	8.0	8.0	2.5	2.5	2.7	2.7	2.7		
IM10	Cloudy	Moderate	20:42	11.0	S	0.3	65.0	19.4	19.4	33.3	33.3	8.3	8.3	114.3	114.2	8.6	8.6	8.5	1.8	1.8	4.5	4.7	4.8	7.4	4.7
						0.3	67.0	19.4	19.4	33.3	33.3	8.3	8.3	114.1	114.1	8.6	8.6		1.9			4.9			4.9
						0.3	70.0	19.4	19.4	33.3	33.3	8.3	8.3	111.3	111.3	8.4	8.4		3.3			8.4			8.4
					M	0.3	70.0	19.4	19.4	33.3	33.3	8.3	8.3	111.2	111.2	8.4	8.4	8.4	3.3	3.3	8.3	8.3	8.3		
						0.4	60.0	19.3	19.3	33.4	33.4	8.3	8.3	109.2	109.2	8.3	8.3	8.3	8.6	8.6	9.0	8.9	8.9		
						0.4	61.0	19.3	19.3	33.4	33.4	8.3	8.3	109.2	109.2	8.3	8.3	8.3	8.3	8.3	8.8	8.8	8.8		
IM11A	Cloudy	Moderate	20:28	4.5	S	0.5	163.0	19.5	19.5	33.3	33.3	8.3	8.3	110.0	110.0	8.3	8.3	8.3	5.9	6.0	7.9	18.5	18.7	21.7	18.5
						0.5	167.0	19.5	19.5	33.3	33.3	8.3	8.3	110.0	110.0	8.3	8.3		6.1			18.9			18.9
						0.5	154.0	19.5	19.5	33.3	33.3	8.3	8.3	109.4	109.4	8.3	8.3		9.8			24.4			24.4
					B	0.5	159.0	19.5	19.5	33.3	33.3	8.3	8.3	109.4	109.4	8.3	8.3	8.3	10.0	9.9	25.1	24.8	24.8		
						0.5	144.0	19.4	19.4	33.3	33.3	8.3	8.3	110.7	110.7	8.4	8.4	8.4	4.4	4.4	8.3	8.2	8.2		
						0.5	158.0	19.4	19.4	33.3	33.3	8.3	8.3	110.7	110.7	8.4	8.4	8.4	4.4	4.4	8.1	8.1	8.1		
IM12	Cloudy	Moderate	20:18	14.8	S	0.5	140.0	19.4	19.4	33.3	33.3	8.3	8.3	110.5	110.5	8.3	8.3	8.3	5.1	5.2	5.3	8.7	9.0	9.1	8.7
						0.5	143.0	19.4	19.4	33.3	33.3	8.3	8.3	110.5	110.5	8.3	8.3		5.2			9.2			9.2
						0.4	129.0	19.4	19.4	33.3	33.3	8.3	8.3	111.5	111.5	8.4	8.4		8.4			6.3			6.3
					M	0.4	131.0	19.4	19.4	33.3	33.3	8.3	8.3	111.4	111.4	8.4	8.4	8.4	6.3	6.3	10.3	10.3	10.3		
						0.3	180.0	19.3	19.3	33.4	33.4	8.3	8.3	110.5	110.5	8.4	8.4	8.4	3.9	3.9	13.0	13.4	13.4		
						0.3	196.0	19.3	19.3	33.4	33.4	8.3	8.3	110.5	110.5	8.4	8.4	8.4	3.9	3.9	13.7	13.7	13.7		
IM13	Cloudy	Moderate	19:56	16.4	S	0.3	189.0	19.3	19.3	33.4	33.4	8.3	8.3	110.1	110.1	8.3	8.3	8.3	2.9	2.9	3.3	6.7	7.1	8.5	6.7
						0.3	193.0	19.3	19.3	33.4	33.4	8.3	8.3	110.0	110.0	8.3	8.3		2.9			7.5			7.5
						0.2	177.0	19.2	19.2	33.4	33.4	8.2	8.2	107.7	107.7	8.2	8.2		3.1			4.8			4.8
					M	0.3	187.0	19.2	19.2	33.4	33.4	8.2	8.2	107.7	107.7	8.2	8.2	8.2	3.2	3.1	5.2	5.2	5.2		
						0.3	191.0	19.5	19.5	33.3	33.3	8.3	8.3	113.1	113.1	8.5	8.5	8.5	3.3	3.3	11.8	12.2	12.2		
						0.3	193.0	19.5	19.5	33.3	33.3	8.3	8.3	113.1	113.1	8.5	8.5	8.5	3.3	3.3	12.5	12.5	12.5		
IM14	Cloudy	Moderate	19:43	11.9	S	0.3	189.0	19.5	19.5	33.4	33.4	8.3	8.3	112.3	112.2	8.5	8.5	8.5	3.4	3.3	3.8	10.4	10.4	9.9	10.4
						0.3	191.0	19.5	19.5	33.4	33.4	8.3	8.3	112.1	112.1	8.5	8.5		3.2			10.3			10.3
						0.3	189.0	19.4	19.4	33.4	33.4	8.2	8.2	108.6	108.6	8.2	8.2		4.8			7.2			7.2
					M	0.3	193.0	19.4	19.4	33.4	33.4	8.2	8.2	108.5	108.5	8.2	8.2	8.2	4.8	4.8	7.3	7.3	7.3		

Water Quality Monitoring Data Log Sheet

Date: 2020/01/20

Tide: Mid-Ebb

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*				
IM15	Cloudy	Moderate	19:38	6.8	S	0.1	16.0	19.2	19.2	32.2	32.2	8.1	8.1	113.4	113.3	8.7	8.6	8.6	4.7	4.7	5.1	6.3	6.6	7.5				
						0.1	17.0	19.2		32.2	32.2	8.1	8.1	113.2	113.3	8.6	8.6		4.7	4.7		6.8	6.6					
					M	0.1	50.0	19.2	19.2	32.2	32.2	8.1	8.1	111.6	111.6	8.5	8.5	8.3	5.4	5.3	8.3	5.1	5.2	6.1		7.7	7.8	5.9
						0.1	53.0	19.2		32.2	32.2	8.1	8.1	111.5	111.6	8.5	8.5		5.3	5.3		7.8	7.8					
					B	0.1	46.0	19.2	19.2	32.2	32.2	8.1	8.1	109.4	109.3	8.4	8.3	8.3	8.4	8.3	8.8	5.0	5.0	7.8		8.1	8.1	5.3
						0.1	47.0	19.2		32.2	32.2	8.1	8.1	109.2	109.3	8.3	8.3		5.3	5.2		8.0	8.1					
IM16A	Cloudy	Moderate	20:05	6.2	S	0.3	118.0	19.3	19.3	31.7	31.7	8.1	8.1	115.5	115.5	8.8	8.8	8.8	5.0	5.0	6.1	8.4	8.4	7.5				
						0.3	127.0	19.3		31.7	31.7	8.1	8.1	115.5	115.5	8.8	8.8		5.0	5.0		8.3	8.4					
					M	0.3	103.0	19.3	19.3	31.8	31.8	8.1	8.1	114.6	114.5	8.8	8.7	8.6	6.5	6.5	8.6	6.6	6.7	7.8		8.1	8.1	5.9
						0.3	103.0	19.3		31.8	31.8	8.1	8.1	114.4	114.5	8.7	8.7		6.6	6.6		8.1	8.1					
					B	0.2	103.0	19.3	19.3	31.8	31.8	8.1	8.1	112.7	112.5	8.6	8.6	8.6	6.6	6.7	8.8	6.6	6.7	8.8		6.1	6.1	5.3
						0.2	111.0	19.3		31.8	31.8	8.1	8.1	112.3	112.5	8.6	8.6		6.8	6.8		6.0	6.0					
IM17	Cloudy	Moderate	20:26	5.5	S	0.3	121.0	19.4	19.4	31.1	31.1	8.1	8.1	111.3	111.3	8.5	8.5	8.5	4.6	4.6	5.2	3.8	4.2	5.9				
						0.3	121.0	19.4		31.1	31.1	8.1	8.1	111.3	111.3	8.5	8.5		4.6	4.6		4.5	4.5					
					B	0.2	114.0	19.4	19.4	31.2	31.2	8.1	8.1	110.8	110.7	8.5	8.5	8.5	5.8	5.8	8.8	7.6	7.6	7.7		7.6	7.6	5.3
						0.2	124.0	19.4		31.2	31.2	8.1	8.1	110.6	110.7	8.5	8.5		5.8	5.8		7.8	7.8					
					S	0.7	158.0	19.4	19.4	30.2	30.2	8.1	8.1	104.2	104.2	8.0	8.0	7.8	2.3	2.3	8.8	2.3	2.3	7.8		3.2	3.5	5.3
						0.8	162.0	19.4		30.2	30.2	8.1	8.1	104.1	104.2	8.0	8.0		2.3	2.3		3.7	3.7					
M	0.6	165.0	19.8	19.8	30.8	30.8	8.1	8.1	98.8	98.7	7.5	7.5	7.2	2.7	2.7	7.6	2.7	2.7	8.8	4.9	5.0	5.9						
	0.7	169.0	19.8		30.9	30.8	8.1	8.1	98.6	98.7	7.5	7.5		2.7	2.7		5.1	5.1										
B	0.4	150.0	19.7	19.7	31.5	31.4	8.1	8.1	95.3	95.3	7.2	7.2	7.2	6.7	6.5	7.6	6.2	6.5	8.8	7.3	7.4	5.3						
	0.4	151.0	19.7		31.4	31.4	8.1	8.1	95.3	95.3	7.2	7.2		6.2	6.5		7.4	7.4										
IM19	Cloudy	Moderate	21:59	18.6	S	0.6	182.0	19.8	19.8	30.9	30.9	8.1	8.1	100.4	100.4	7.6	7.6	7.6	2.4	2.4	7.6	6.4	6.3	7.0				
						0.6	185.0	19.8		30.9	30.9	8.1	8.1	100.4	100.4	7.6	7.6		2.4	2.4		6.1	6.1					
					M	0.5	167.0	19.7	19.7	30.9	30.9	8.1	8.1	100.4	100.4	7.7	7.6	7.6	2.1	2.1	8.8	2.1	2.1	8.8		5.0	4.8	5.3
						0.5	177.0	19.7		30.9	30.9	8.1	8.1	100.3	100.4	7.6	7.6		2.1	2.1		4.5	4.8					
					B	0.4	151.0	19.8	19.8	31.3	31.3	8.1	8.1	97.1	97.1	7.4	7.4	7.4	3.7	3.7	8.8	3.7	3.7	8.8		3.7	3.6	5.3
						0.5	154.0	19.8		31.3	31.3	8.1	8.1	97.1	97.1	7.4	7.4		3.7	3.7		3.4	3.4					
IM20A	Cloudy	Moderate	21:31	5.2	S	0.4	241.0	20.4	20.4	30.1	30.1	8.1	8.1	96.8	96.9	7.3	7.3	7.3	7.9	7.9	6.9	7.0	7.1	7.0				
						0.4	252.0	20.3		30.1	30.1	8.1	8.1	96.9	96.9	7.3	7.3		7.8	7.9		7.2	7.2					
					B	0.3	232.0	19.9	19.9	30.7	30.7	8.1	8.1	97.3	97.4	7.4	7.4	7.4	5.9	5.9	8.8	8.6	8.8	8.8		8.6	8.8	5.3
						0.3	236.0	19.9		30.7	30.7	8.1	8.1	97.4	97.4	7.4	7.4		5.9	5.9		9.0	9.0					
					S	0.3	202.0	20.1	20.1	30.8	30.8	8.1	8.1	97.2	97.2	7.4	7.4	7.4	5.8	5.8	8.8	7.7	7.6	8.8		7.7	7.6	5.3
						0.3	209.0	20.1		30.8	30.8	8.1	8.1	97.2	97.2	7.4	7.4		5.9	5.8		7.5	7.5					
B	0.2	190.0	20.0	20.0	30.8	30.8	8.1	8.1	98.0	98.1	7.4	7.4	7.4	5.4	5.4	8.8	6.7	6.4	8.8	6.7	6.4	5.3						
	0.2	200.0	20.0		30.8	30.8	8.1	8.1	98.1	98.1	7.4	7.4		5.3	5.4		6.1	6.1										
IM22A	Cloudy	Moderate	21:45	5.5	S	0.3	219.0	20.8	20.8	30.9	30.9	8.1	8.1	99.8	99.8	7.5	7.5	7.5	5.4	5.5	5.6	6.0	6.2	8.0				
						0.3	239.0	20.8		30.9	30.9	8.1	8.1	99.8	99.8	7.5	7.5		5.5	5.5		6.3	6.2					
					B	0.2	217.0	20.7	20.7	30.9	30.9	8.1	8.1	99.3	99.4	7.4	7.4	7.4	5.7	5.7	8.8	9.6	9.8	8.8		9.6	9.8	5.3
						0.2	222.0	20.7		30.9	30.9	8.1	8.1	99.4	99.4	7.4	7.4		5.7	5.7		9.9	9.8					

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/20

Tide: Mid-Flood

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)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*		
E1	Cloudy	Moderate	12:10	9.0	S	0.4	66.9	20.1	20.1	31.8	31.8	8.0	8.0	104.2	104.5	7.8	7.9	7.8	1.3	1.3	1.6	1.5	1.6	2.6	2.5	3.9	
						0.2	19.6	20.1		31.8		8.0		104.7		7.9			1.3								
						0.3	353.7	19.9		31.8		7.9		101.8		7.7			1.6								
					M	0.3	96.6	19.9	19.9	31.8	31.8	7.9	7.9	102.3	102.1	7.7	7.7	7.6	2.0	2.1	4.8	5.1	4.4	4.4	5.0		
						B	0.6	257.9	19.9	19.9	31.8	31.8	7.9	7.9	101.6	101.3	7.7	7.6	7.6	2.1	2.1	4.8	5.1	4.4	4.4		5.0
							0.1	220.0	19.9	19.9	31.8	31.8	7.9	7.9	100.9	101.3	7.6	7.6	7.6	2.1	2.1	5.1	5.1	4.4	4.4		5.0
E2	Cloudy	Moderate	15:23	9.5	S	0.7	328.7	20.2	20.2	32.1	32.1	8.1	8.1	102.1	102.8	7.7	7.7	7.4	2.7	2.7	3.4	3.5	4.1	4.4	4.1	4.1	
						0.5	338.9	20.2		32.1		8.1		103.5		7.8			2.6								
						0.5	53.5	20.0		32.2		8.1		95.3		7.2			3.4								
					M	0.5	345.5	20.0	32.1	8.1	96.1	7.2	3.5														
						B	0.3	320.8	20.0	20.0	32.1	32.1	8.1	95.9	7.3	7.2	4.3	4.2	5.4	5.3							
							0.7	230.8	20.0	32.1	8.1	95.4	7.2	4.0	5.2												
E3	Cloudy	Rough	14:31	17.0	S	0.5	317.0	19.3	19.3	33.4	33.4	8.3	8.3	116.6	116.5	8.8	8.8	8.6	0.8	0.8	2.2	2.2	2.3	2.5	3.6		
						0.6	317.0	19.3		33.4		8.3		116.3		8.8			0.8								
						0.5	319.0	19.2		19.2		33.4		33.4		8.3			110.8							8.4	8.4
					M	0.6	342.0	19.2	19.2	33.4	33.4	8.3	110.8	8.4	8.4	0.9	0.9										
						B	0.5	331.0	19.2	19.2	33.5	33.5	8.3	107.2	107.2	8.1	8.1	5.1	5.0								
							0.5	347.0	19.2	19.2	33.5	33.5	8.3	107.2	107.2	8.1	8.1	5.0	5.0								
E4	Cloudy	Moderate	15:57	11.1	S	0.7	19.0	19.2	19.2	33.4	33.4	8.3	8.3	108.2	108.2	8.2	8.2	8.2	5.2	5.2	8.6	8.6	13.3	13.0	14.3		
						0.7	20.0	19.2		33.4		8.3		108.1		8.2			5.3								
						0.6	11.0	19.2		19.2		33.4		33.4		8.3			107.4							8.1	8.1
					M	0.7	11.0	19.2	19.2	33.4	33.4	8.3	107.4	8.1	8.1	8.9	8.9										
						B	0.6	7.0	19.2	19.2	33.4	33.4	8.3	106.7	106.7	8.1	8.1	11.6	11.6								
							0.6	7.0	19.2	19.2	33.4	33.4	8.3	106.7	106.7	8.1	8.1	11.5	11.6								
E5	Cloudy	Moderate	16:25	6.7	S	0.6	24.0	19.3	19.3	31.7	31.7	8.1	8.1	115.7	115.7	8.8	8.8	8.8	7.1	7.2	9.1	9.1	11.5	11.6	14.8		
						0.6	24.0	19.3		31.7		8.1		115.6		8.8			7.4								
						0.5	22.0	19.3		19.3		31.7		31.7		8.1			114.4							8.7	8.7
					M	0.5	23.0	19.3	19.3	31.7	31.7	8.1	114.3	8.7	8.7	9.3	9.4										
						B	0.4	22.0	19.3	19.3	31.7	31.7	8.1	113.5	113.1	8.7	8.6	8.6	10.5								
							0.4	22.0	19.3	19.3	31.7	31.7	8.1	112.7	113.1	8.6	8.6	12.4	10.5								
E6	Cloudy	Rough	15:14	6.1	S	0.6	342.0	19.8	19.8	30.5	30.5	8.1	8.1	97.5	97.5	7.4	7.4	7.4	3.9	3.9	6.9	6.9	4.2	4.4	5.7		
						0.7	348.0	19.8		30.5		8.1		97.5		7.4			4.0								
						0.6	338.0	19.8		19.8		30.5		30.5		8.0			97.5							7.4	7.4
					M	0.7	356.0	19.8	19.8	30.5	30.5	8.0	97.5	97.5	7.4	7.4	4.4	4.3									
						B	0.6	338.0	19.6	19.6	30.7	30.8	8.1	99.0	99.1	7.6	7.6	12.5	12.4								
							0.6	343.0	19.5	19.6	30.8	30.8	8.1	99.1	99.1	7.6	7.6	12.3	12.4								
E7A	Cloudy	Moderate	14:51	5.0	S	0.3	22.0	19.8	19.8	29.7	29.8	8.1	8.1	97.4	97.5	7.5	7.5	7.5	3.7	3.9	6.0	6.0	5.7	5.9	6.6		
						0.4	22.0	19.8		29.8		8.1		97.6		7.5			4.0								
						0.3	17.0	19.5		19.5		30.5		30.5		8.1			99.5							99.6	7.6
					B	0.3	18.0	19.4	19.5	30.5	30.5	8.1	99.7	99.6	7.7	7.7	8.1	8.2									
						S	0.3	344.3	20.1	20.1	32.2	32.2	8.2	112.0	112.7	8.4	8.5	8.1	1.4								
							0.3	344.3	20.1	20.1	32.2	32.2	8.2	113.4	112.7	8.5	8.5	8.1	1.4								
F1	Cloudy	Moderate	13:03	20.5	M	0.4	223.1	19.8	19.8	32.2	32.2	8.1	8.1	102.9	103.7	7.8	7.8	8.1	1.1	1.1	1.7	1.7	5.3	5.6			
						0.3	234.3	19.8		32.2		8.1		104.5		7.9			1.1								
						0.5	311.9	19.8		19.8		32.4		32.4		8.1			99.9						99.2	7.5	7.5
					B	0.2	23.3	19.8	19.8	32.4	32.4	8.1	98.5	99.2	7.4	7.5	2.6	2.6									
						S	0.8	353.7	20.0	20.0	32.0	32.0	8.2	115.1	115.8	8.7	8.7	0.7	0.8								
							0.8	353.7	20.0	20.0	32.0	32.0	8.2	116.4	115.8	8.8	8.7	0.8	0.8								
F2	Cloudy	Moderate	13:32	19.5	M	0.4	261.4	19.7	19.7	32.1	32.1	8.1	8.1	104.2	104.8	7.9	7.9	8.3	0.8	0.8	1.2	1.2	3.4	3.3	4.6		
						0.5	354.2	19.7		32.1		8.1		105.4		8.0			0.8								
						0.2	140.7	19.9		19.9		32.4		32.4		8.1			99.5							98.9	7.5
					B	0.2	140.7	19.9	19.9	32.4	32.4	8.1	99.5	98.9	7.5	7.4	2.0	2.0									
						S	0.4	307.3	19.9	19.9	32.4	32.4	8.1	98.3	98.9	7.4	7.4	2.0	2.0								
							0.4	307.3	19.9	19.9	32.4	32.4	8.1	98.3	98.9	7.4	7.4	2.0	2.0								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/20

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			Suspended Solids (mg/L)			Total Residual Chlorine (mg/L)				
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average		DA*			
IM15	Cloudy	Moderate	16:39	7.0	S	0.6	17.0	19.4	19.4	31.8	31.8	8.1	8.1	118.9	118.9	9.1	9.1	9.0	7.3	7.3	7.7	7.2	7.4	10.4				
						0.6	17.0	19.4		31.8		8.1		118.8		9.1			7.2									
						0.6	16.0	19.4		31.8		8.1		117.9		9.0			7.2									
					M	0.6	16.0	19.4	19.4	31.8	31.8	8.1	8.1	117.6	117.8	9.0	9.0	7.2	7.2	11.4		11.7						
						0.5	23.0	19.4	31.8	31.8	8.1	8.1	114.6	114.5	8.7	8.7	8.5	8.6	12.0	12.2								
						0.5	23.0	19.4	31.8	31.8	8.1	8.1	114.3	114.3	8.7	8.7	8.6	8.6	12.3	12.3								
IM16A	Cloudy	Moderate	16:06	6.4	S	0.5	8.0	19.7	19.7	30.6	30.6	8.1	8.1	113.0	112.9	8.6	8.6	8.5	2.7	2.8	5.8	5.5	5.4	6.9				
						0.5	8.0	19.7		30.6		8.1		112.7		8.6			2.9									
						0.5	12.0	19.5		30.9		31.0		8.1		8.1			110.6			110.5			8.5	8.5	5.9	6.1
					M	0.5	12.0	19.5	31.0	31.0	8.1	8.1	110.3	110.3	8.4	8.5	6.2	6.1	6.6	6.6								
						0.4	4.0	19.4	31.2	31.2	8.0	8.0	108.0	108.0	8.3	8.3	8.5	8.5	9.0	8.9								
						0.4	4.0	19.4	31.2	31.2	8.0	8.0	107.9	107.9	8.3	8.3	8.6	8.5	8.7	8.7								
IM17	Cloudy	Moderate	15:42	5.4	S	0.5	357.0	19.8	19.8	30.5	30.5	8.0	8.0	100.8	100.7	7.7	7.7	7.7	3.7	3.9	5.0	4.2	4.3	4.7				
						0.5	24.0	19.8		30.6		30.5		8.0		8.0			100.6			100.7			7.7	7.7	4.2	4.2
						0.4	340.0	19.5		31.0		31.0		8.0		8.0			101.4			101.6			7.8	7.8	6.0	6.0
					B	0.5	1.0	19.4	31.1	31.1	8.0	8.0	101.8	101.6	7.8	7.8	6.0	6.0	5.1	5.0								
						0.2	320.0	19.1	30.5	30.5	8.0	8.0	100.3	100.3	7.8	7.8	1.4	1.4	4.0	4.0								
						0.2	338.0	19.0	30.5	30.5	8.0	8.0	100.2	100.3	7.8	7.8	1.4	1.4	3.6	3.8								
IM18	Cloudy	Moderate	13:52	17.1	M	0.3	337.0	19.1	19.1	30.4	30.4	8.1	8.1	100.6	100.6	7.8	7.8	7.8	1.7	1.7	1.5	4.4	4.5	4.3				
						0.3	352.0	19.1		30.3		30.4		8.1		8.1			100.6			100.6			7.8	7.8	1.7	1.7
						0.2	344.0	19.1		31.4		31.4		8.1		8.1			100.4			100.4			8.6	8.6	1.5	1.5
					B	0.3	11.0	19.1	31.4	31.4	8.1	8.1	100.4	100.4	8.6	8.6	1.5	1.5	4.6	4.6								
						0.2	357.0	19.3	30.7	30.7	8.0	8.0	100.2	100.2	7.7	7.7	3.9	3.9	2.7	2.5								
						0.2	2.0	19.3	30.7	30.7	8.0	8.0	100.2	100.2	7.7	7.7	3.9	3.9	2.3	2.3								
IM19	Cloudy	Moderate	14:03	17.2	M	0.4	351.0	19.2	19.2	30.8	30.8	8.0	8.0	100.0	100.0	7.7	7.7	7.7	2.2	2.3	3.1	2.9	2.9	3.2				
						0.4	12.0	19.2		30.8		30.8		8.0		8.0			99.9			100.0			7.7	7.7	2.3	2.3
						0.4	345.0	19.0		30.9		30.9		8.0		8.0			100.0			100.0			7.7	7.7	3.2	3.3
					S	0.4	15.0	19.0	31.0	31.0	8.0	8.0	100.0	100.0	7.7	7.7	3.3	3.3	4.3	4.3								
						0.5	62.0	20.2	30.3	30.3	8.0	8.0	99.9	99.9	7.6	7.6	6.6	6.7	8.2	8.3								
						0.5	62.0	20.2	30.3	30.3	8.0	8.0	99.9	99.9	7.6	7.6	6.8	6.7	8.4	8.3								
IM20A	Cloudy	Moderate	14:35	4.2	B	0.4	61.0	20.1	20.1	30.3	30.3	8.0	8.0	99.9	99.9	7.6	7.6	7.6	6.7	6.7	10.8	11.1						
						0.5	65.0	20.1	30.3	30.3	8.0	8.0	99.8	99.9	7.6	7.6	6.7	6.7	11.3	11.1								
						0.2	27.0	20.3	30.7	30.7	8.0	8.0	99.5	99.5	7.5	7.5	4.8	4.9										
					S	0.2	28.0	20.3	30.7	30.7	8.0	8.0	99.5	99.5	7.5	7.5	4.9	4.9	8.8	8.5								
						0.2	17.0	20.2	30.7	30.7	8.0	8.0	99.9	99.9	7.6	7.6	4.9	4.8	9.2	9.4								
						0.2	18.0	20.2	30.7	30.7	8.0	8.0	99.9	99.9	7.6	7.6	4.7	4.7	9.5	9.4								
IM21A	Cloudy	Moderate	14:25	5.1	B	0.4	46.0	19.2	19.2	30.8	30.8	8.0	8.0	98.7	98.7	7.6	7.6	7.6	4.4	4.4	7.9	7.7						
						0.4	49.0	19.2	30.8	30.8	8.0	8.0	98.7	98.7	7.6	7.6	7.6	4.5	4.4	7.5	7.7							
						0.3	51.0	19.2	30.7	30.7	8.0	8.0	99.2	99.3	7.6	7.6	5.0	5.0	9.3	9.1								
					S	0.3	52.0	19.2	30.7	30.7	8.0	8.0	99.3	99.3	7.7	7.7	5.0	5.0	8.8	8.8								
						0.4	46.0	19.2	30.8	30.8	8.0	8.0	98.7	98.7	7.6	7.6	7.6	4.4	4.4	7.9	7.7							
						0.4	49.0	19.2	30.8	30.8	8.0	8.0	98.7	98.7	7.6	7.6	7.6	4.5	4.4	7.5	7.7							
IM22A	Cloudy	Moderate	14:16	4.2	B	0.3	51.0	19.2	19.2	30.7	30.7	8.0	8.0	99.2	99.3	7.6	7.6	7.6	5.0	5.0	9.3	9.1						
						0.3	52.0	19.2	30.7	30.7	8.0	8.0	99.3	99.3	7.7	7.7	5.0	5.0	8.8	8.8								
						0.4	46.0	19.2	30.8	30.8	8.0	8.0	98.7	98.7	7.6	7.6	7.6	4.4	4.4	7.9	7.7							
					S	0.4	49.0	19.2	30.8	30.8	8.0	8.0	98.7	98.7	7.6	7.6	7.6	4.5	4.4	7.5	7.7							
						0.3	51.0	19.2	30.7	30.7	8.0	8.0	99.2	99.3	7.6	7.6	7.6	5.0	5.0	9.3	9.1							
						0.3	52.0	19.2	30.7	30.7	8.0	8.0	99.3	99.3	7.7	7.7	5.0	5.0	8.8	8.8								

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)	
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average
E1	Cloudy	Moderate	00:34	9.0	S	0.2	282.2	20.3	20.3	32.0	32.0	8.1	8.1	106.9	107.1	8.0	8.0	8.0	3.3	3.3	4.3	5.9	6.1	8.2
						0.2	282.2	20.3		32.0	32.0	8.1		107.2		8.0			3.2			6.2		
						0.4	216.4	20.2		32.0	32.0	8.1		107.3		8.0			4.1			8.0		
					M	0.7	165.7	20.3	32.0	32.0	8.1	107.3	8.0	4.1	7.4									
						0.6	148.4	20.2	32.0	32.0	8.1	106.7	8.0	5.2	11.4									
						0.3	182.7	20.2	32.0	32.0	8.1	107.4	8.0	5.9	10.5									
B	0.5	66.8	20.2	32.0	32.0	8.2	123.2	9.2	2.6	3.6														
	0.5	66.8	20.2	32.0	32.0	8.2	124.2	9.3	2.4	3.0														
	0.9	43.9	20.2	32.0	32.0	8.2	119.7	9.0	2.8	3.4														
E2	Cloudy	Moderate	21:24	9.5	S	0.9	43.9	20.2	20.2	32.0	32.0	8.2	8.2	120.8	120.8	9.1	9.1	9.2	2.9	2.9	3.4	3.4	3.7	5.0
						0.9	43.9	20.2		32.0	32.0	8.2		121.8		9.1			2.9			4.0		
						0.6	7.8	20.2		32.0	32.0	8.1		113.2		8.5			4.6			7.6		
					M	0.4	94.3	20.2	32.0	32.0	8.1	112.9	8.5	4.9	8.5									
						0.5	117.0	19.7	33.4	33.4	8.3	118.3	8.9	2.7	12.9									
						0.6	118.0	19.7	33.4	33.4	8.3	118.2	8.9	2.7	11.9									
B	0.5	107.0	19.5	33.6	33.6	8.3	113.8	8.6	2.0	12.4														
	0.5	107.0	19.5	33.6	33.6	8.3	113.7	8.6	2.0	12.0														
	0.4	105.0	19.5	33.6	33.6	8.3	111.0	8.4	4.4	9.1														
E3	Fine	Rough	22:31	16.9	S	0.4	114.0	19.5	19.5	33.6	33.6	8.3	8.3	111.0	111.0	8.4	8.4	8.4	4.7	4.5	3.1	9.9	9.5	11.4
						0.4	203.0	19.4		33.4	33.4	8.3		108.2		8.2			3.7			5.8		
						0.4	220.0	19.4		33.4	33.4	8.3		108.2		8.2			3.7			6.1		
					M	0.4	207.0	19.4	33.4	33.4	8.3	108.0	8.2	3.8	5.8									
						0.4	213.0	19.4	33.4	33.4	8.3	108.0	8.2	3.9	6.4									
						0.4	204.0	19.4	33.4	33.4	8.3	107.7	8.1	8.4	6.1									
B	0.4	216.0	19.4	33.4	33.4	8.3	107.7	8.1	8.4	6.7														
	0.1	112.0	19.6	32.9	32.9	8.1	109.9	8.3	3.0	4.8														
	0.1	122.0	19.6	32.9	32.9	8.1	109.9	8.3	3.0	4.4														
E4	Fine	Moderate	21:15	12.5	S	0.2	115.0	19.5	19.5	32.9	32.9	8.1	8.1	108.9	108.9	8.2	8.2	8.3	2.9	2.9	5.3	4.7	5.1	5.5
						0.2	122.0	19.5		32.9	32.9	8.1		108.9		8.2			2.9			5.4		
						0.1	128.0	19.5		32.9	32.9	8.1		104.8		7.9			3.0			7.0		
					M	0.1	135.0	19.5	32.9	32.9	8.1	104.8	7.9	3.0	6.9									
						0.5	142.0	19.9	31.4	31.4	8.1	105.2	8.0	4.5	3.2									
						0.5	149.0	19.9	31.4	31.4	8.1	105.2	8.0	4.5	4.2									
B	0.4	144.0	19.9	31.6	31.6	8.1	105.0	7.9	5.2	5.6														
	0.4	157.0	19.9	31.6	31.6	8.1	105.0	7.9	5.2	5.0														
	0.3	150.0	19.8	31.7	31.7	8.0	103.4	7.8	7.6	7.4														
E5	Cloudy	Moderate	21:20	7.0	S	0.3	156.0	19.8	19.8	31.7	31.7	8.0	8.0	103.3	103.4	7.8	7.8	7.8	7.6	7.6	5.8	6.4	6.9	5.3
						0.3	200.0	20.2		30.7	30.7	8.0		101.3		7.7			1.0			3.7		
						0.3	206.0	20.2		30.7	30.7	8.0		101.3		7.7			1.0			3.0		
					M	0.2	192.0	20.1	31.4	31.4	8.0	100.4	7.6	1.3	2.8									
						0.2	204.0	20.1	31.4	31.4	8.0	100.4	7.6	1.3	2.6									
						0.7	210.8	20.3	32.4	32.4	8.2	116.7	8.7	0.7	1.3									
B	0.7	210.8	20.3	32.4	32.4	8.2	119.9	8.9	0.7	1.4														
	0.6	195.0	20.1	32.5	32.5	8.1	106.0	7.9	1.2	4.1														
	0.6	195.0	20.1	32.5	32.5	8.1	107.6	8.1	1.0	3.8														
E6	Cloudy	Moderate	22:21	6.5	S	0.5	95.2	20.0	20.0	32.6	32.6	8.1	8.1	101.7	101.3	7.6	7.6	7.6	5.1	5.6	2.5	1.6	2.1	3.3
						0.9	38.7	20.0		32.6	32.6	8.1		100.9		7.6			6.0			8.4		
						0.5	189.5	20.1		32.7	32.7	8.1		103.3		7.7			1.3			2.5		
					M	0.5	189.5	20.1	32.7	32.7	8.1	103.4	7.7	1.2	1.6									
						0.2	97.1	20.1	32.7	32.7	8.1	102.3	7.7	1.7	3.8									
						0.6	121.3	20.1	32.7	32.7	8.1	102.4	7.7	1.9	4.1									
B	0.3	287.6	20.1	32.7	32.7	8.1	101.8	7.6	2.3	3.1														
	0.6	232.7	20.1	32.7	32.7	8.1	101.7	7.6	2.1	4.6														

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*			
F3	Cloudy	Moderate	22:41	18.5	S	0.2	64.8	20.2	20.2	32.8	32.8	8.1	8.1	103.5	103.6	7.7	7.7	7.7	0.9	1.0	2.0	2.0	1.1	1.6	<0.001			
						0.2	64.8	20.2		32.8		8.1		103.6		7.7			1.0		2.0		1.1		<0.001			
						0.9	135.1	20.2		32.8		8.1		102.4		7.7			1.3		2.7		1.7		<0.001			
					M	1.2	64.0	20.2	20.2	32.8	32.8	8.1	8.1	102.7	102.6	7.7	7.7	1.1	1.2	2.0	2.0	1.1	1.2	2.7	2.2	1.7	2.2	<0.001
						0.5	247.0	20.1		32.8		8.1		100.6		7.5		3.9		6.1		6.2		6.1		<0.001		
						0.4	323.0	20.2		32.8		8.1		100.5		7.5		3.6		6.2				<0.001				
F4	Cloudy	Moderate	21:49	14.5	S	0.9	181.6	20.2	20.2	32.1	32.1	8.2	8.2	128.7	129.0	9.7	9.7	9.6	2.0	2.1	3.6	3.9	3.6	3.9	<0.001			
						0.9	181.6	20.2		32.1		8.2		129.2		9.7			2.2		4.2		4.2					
						0.2	222.1	20.2		32.1		8.2		126.7		9.5			3.1		4.2		4.6					
					M	0.2	222.1	20.1	20.1	32.1	32.1	8.2	8.2	127.0	126.9	9.5	9.5	2.8	3.0	4.9	4.6	4.9	4.6	18.5	19.1	18.5	19.1	9.2
						0.5	85.2	20.1		32.1		8.2		123.5		9.3		10.1		18.5								
						0.9	78.9	20.1		32.1		8.2		123.7		9.3		9.3		19.7								
F5	Cloudy	Moderate	20:44	7.0	S	0.1	321.0	19.5	19.5	32.9	32.9	8.0	8.0	110.8	110.8	8.4	8.4	8.3	2.9	2.9	6.1	6.6	7.0	6.6	<0.001			
						0.0	335.0	19.5		32.9		8.0		110.8		8.4			2.9		6.1							
						0.0	206.0	19.5		32.9		8.0		109.7		8.3			2.8		6.1							
					M	0.0	206.0	19.5	19.5	32.9	32.9	8.0	8.0	109.7	109.7	8.3	8.3	2.8	2.8	6.4	6.3	6.4	6.3	6.4	6.3	6.4	6.3	<0.001
						0.0	358.0	19.5		32.9		8.0		105.7		8.0		3.0		6.1								
						0.0	17.0	19.5		32.9		8.0		105.7		8.0		3.0		6.1								
F6	Cloudy	Moderate	23:57	13.7	S	0.8	142.0	19.9	19.9	31.7	31.7	8.1	8.1	109.1	109.1	8.3	8.3	8.1	2.8	2.8	3.6	3.9	4.2	4.3	<0.001			
						0.9	145.0	19.9		31.7		8.1		109.1		8.3			2.8		4.2							
						0.7	133.0	19.9		32.1		8.1		104.9		7.9			3.9		4.6							
					M	0.7	144.0	19.9	19.9	32.1	32.1	8.1	8.1	104.9	104.9	7.9	7.9	3.9	3.9	4.6	4.3	4.6	4.3	4.0	4.5	5.0	4.5	<0.001
						0.5	114.0	19.9		32.3		8.1		104.5		7.9		4.9		4.0								
						0.5	118.0	19.9		32.3		8.1		104.5		7.9		4.9		5.0								
IM1	Cloudy	Moderate	00:01	10.1	S	0.1	105.9	20.3	20.3	32.4	32.4	8.1	8.1	112.4	112.6	8.4	8.4	8.3	1.9	2.1	5.0	5.2	5.3	5.2	<0.001			
						0.1	105.9	20.3		32.4		8.1		112.7		8.4			2.2		5.3							
						0.4	77.9	20.2		32.5		8.1		108.4		8.1			4.1		9.5							
					M	0.7	171.9	20.3	20.3	32.5	32.5	8.1	8.1	109.1	108.8	8.2	8.1	3.8	4.0	9.8	9.7	9.8	9.7	9.8	9.7	9.8	9.7	<0.001
						0.3	27.5	20.1		32.5		8.1		105.8		7.9		6.5		11.3								
						0.3	328.0	20.1		32.5		8.1		106.3		8.0		6.3		12.8								
IM2	Cloudy	Moderate	00:23	11.6	S	1.4	123.5	20.2	20.2	31.9	31.9	8.1	8.1	115.2	116.2	8.6	8.7	8.4	1.9	1.9	6.3	6.1	5.8	6.1	<0.001			
						1.4	123.5	20.2		31.9		8.1		117.2		8.8			1.9		5.8							
						0.5	316.4	20.1		32.1		8.1		107.4		8.1			2.9		8.7							
					M	0.6	211.2	20.1	20.1	32.2	32.2	8.1	8.1	107.2	107.3	8.1	8.1	2.7	2.8	9.0	8.9	7.6	7.9	7.6	7.9	7.6	7.9	<0.001
						0.3	156.5	20.1		32.2		8.1		106.1		8.0		3.0		9.0								
						0.9	248.2	20.1		32.2		8.1		106.1		8.0		2.9		8.2								
IM3	Cloudy	Moderate	20:39	16.0	S	0.9	333.9	20.1	20.2	32.0	32.0	8.1	8.1	115.8	120.7	8.7	9.1	8.5	1.7	1.7	3.4	3.7	3.9	3.5	<0.001			
						0.9	333.9	20.2		32.0		8.1		125.6		9.4			1.6		3.9							
						0.6	262.2	19.9		32.3		8.0		105.1		7.9			2.0		3.8							
					M	0.6	262.2	19.9	19.9	32.3	32.3	8.0	8.0	105.4	105.3	7.9	7.9	1.9	2.0	3.2	3.5	3.2	3.5	3.2	3.5	3.2	3.5	<0.001
						1.4	151.6	19.9		32.3		8.0		102.7		7.7		17.8		30.4								
						1.4	151.6	19.9		32.3		8.0		102.4		7.7		14.8		27.4								
IM4	Cloudy	Moderate	20:59	17.6	S	0.6	2.8	20.0	20.0	32.1	32.1	8.1	8.1	113.9	113.8	8.6	8.6	8.5	3.3	3.3	5.9	6.2	6.4	6.2	<0.001			
						0.6	75.5	20.0		32.1		8.1		113.6		8.6			3.3		6.4							
						1.0	109.8	20.0		32.1		8.1		110.6		8.3			4.1		7.1							
					M	1.0	109.8	20.0	20.0	32.1	32.1	8.1	8.1	111.3	111.0	8.4	8.4	3.9	4.0	7.8	7.5	7.8	7.5	7.8	7.5	7.8	7.5	<0.001
						0.2	86.3	19.9		32.2		8.1		107.7		8.1		6.1		12.2								
						0.5	71.2	19.9		32.2		8.1		107.3		8.1		6.1		13.0								
IM5	Cloudy	Moderate	22:16	16.0	S	0.7	206.1	20.0	20.0	32.2	32.2	8.2	8.2	118.2	119.0	8.9	9.0	8.6	1.5	1.4	4.1	4.6	5.1	4.6	<0.001			
						0.7	206.1	20.0		32.2		8.2		119.8		9.0			1.3		5.1							
						0.3	51.9	19.9		32.3		8.1		107.9		8.1			4.2		6.3							
					M	0.2	20.8	19.9	19.9	32.3	32.3	8.1	8.1	108.4	108.2	8.2	8.2	3.5	3.9	5.4	5.9	5.4	5.9	5.4	5.9	5.4	5.9	<0.001
						0.3	34.3	19.9		32.3		8.1		107.0		8.1		12.0		30.2								
						0.3	162.3	19.9		32.3		8.1		106.6		8.0		12.9		28.1								

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
IM6	Cloudy	Moderate	22:30	17.1	S	0.4	230.9	20.1	20.1	32.6	32.6	8.1	8.1	106.8	106.9	8.0	8.0	7.9	1.0	1.1	1.8	5.0	5.2	5.8	<0.001
						0.3	36.2	20.1		32.6		8.1		106.9		8.0			1.1			5.3			<0.001
						0.2	53.0	20.1		32.6		8.1		104.6		7.8			1.4			5.8			<0.001
					M	0.3	283.5	20.1	32.6	8.1	105.7	7.9	1.2	5.5	0.005										
						0.2	66.1	20.1	32.7	8.1	101.1	7.6	3.4	6.8	<0.001										
						0.2	332.6	20.1	32.7	8.1	102.0	7.6	2.9	6.6	<0.001										
B	0.4	120.0	19.6	20.1	33.5	32.7	8.3	8.1	120.7	120.7	9.1	9.1	7.6	3.4	3.2	7.6	1.9	1.8	2.5	3.6	3.2	5.8	<0.001		
	0.4	130.0	19.6		33.5		8.3		120.7		9.1			1.8			2.8			<0.001					
	0.4	115.0	19.6		33.5		8.3		118.3		8.9			2.4			3.4			<0.001					
IM7	Fine	Rough	23:47	14.7	S	0.4	115.0	19.6	19.6	33.5	33.5	8.3	8.3	118.3	118.3	8.9	8.9	9.0	1.8	1.8	2.5	3.4	3.1	3.0	3.0
						0.4	124.0	19.6		33.5		8.3		118.3		8.9			2.5			2.7			
						0.2	101.0	19.6		33.5		8.3		117.0		8.8			3.3			2.3			
					M	0.2	105.0	19.6	33.5	8.3	117.0	8.8	3.3	2.8	2.8										
						0.4	120.0	19.6	33.6	8.3	114.9	8.6	1.7	4.6											
						0.4	122.0	19.6	33.6	8.3	114.8	8.6	1.7	4.6											
B	0.3	120.0	19.7	33.7	8.3	111.6	8.4	2.1	5.0	5.5															
	0.4	120.0	19.7	33.7	8.3	111.6	8.4	2.0	5.9																
	0.3	112.0	19.7	33.8	8.3	110.0	8.2	4.0	7.9																
IM8	Fine	Rough	23:23	13.6	S	0.4	120.0	19.6	19.6	33.6	33.6	8.3	8.3	114.9	114.9	8.6	8.6	8.5	1.7	1.7	2.6	4.6	4.6	5.9	5.9
						0.4	122.0	19.6		33.6		8.3		114.8		8.6			1.7			4.6			
						0.3	120.0	19.7		33.7		8.3		111.6		8.4			2.1			5.0			
					M	0.4	120.0	19.7	33.7	8.3	111.6	8.4	2.0	5.9	5.5										
						0.3	112.0	19.7	33.8	8.3	110.0	8.2	4.0	7.9											
						0.3	115.0	19.7	33.8	8.3	110.0	8.2	4.3	7.1											
B	0.5	94.0	19.6	33.5	8.3	117.6	8.8	1.9	7.5	8.0															
	0.5	97.0	19.6	33.5	8.3	117.5	8.8	1.9	8.5																
	0.5	103.0	19.6	33.5	8.3	116.8	8.8	2.5	7.2																
IM9	Fine	Rough	22:57	15.6	S	0.5	105.0	19.6	19.6	33.5	33.5	8.3	8.3	116.7	116.8	8.8	8.8	8.8	2.5	2.5	2.6	7.2	7.0	6.3	6.3
						0.5	103.0	19.6		33.5		8.3		116.8		8.8			2.6			6.8			
						0.5	105.0	19.6		33.5		8.3		116.7		8.8			2.6			6.8			
					M	0.3	86.0	19.6	33.5	8.3	114.3	8.6	3.3	4.2	3.8										
						0.4	91.0	19.6	33.5	8.3	114.1	8.6	3.3	3.4											
						0.6	52.0	19.7	33.4	8.3	116.3	8.7	7.4	31.8											
B	0.7	56.0	19.7	33.4	8.3	116.4	8.7	7.5	31.1	31.5															
	0.7	50.0	19.7	33.5	8.3	116.6	8.8	11.0	24.8																
	0.7	51.0	19.7	33.5	8.3	116.5	8.8	11.1	25.5																
IM10	Fine	Rough	22:16	10.7	S	0.6	47.0	19.6	19.6	33.5	33.5	8.3	8.3	115.1	114.9	8.7	8.6	8.6	16.6	16.6	11.7	25.2	25.8	27.5	27.5
						0.6	51.0	19.6		33.5		8.3		114.7		8.6			16.6			26.4			
						0.7	178.0	19.7		33.4		8.3		114.6		8.6			13.9			12.3			
					M	0.8	182.0	19.7	33.4	8.3	114.5	8.6	13.9	12.3	12.8										
						0.6	159.0	19.7	33.4	8.3	113.0	8.5	19.0	63.4											
						0.6	162.0	19.7	33.4	8.3	112.9	8.5	19.0	60.2											
B	0.8	178.0	19.7	33.4	8.3	117.7	8.8	4.5	5.5	5.9															
	0.8	185.0	19.7	33.4	8.3	117.7	8.8	4.5	6.3																
	0.6	167.0	19.7	33.4	8.3	117.6	8.8	5.2	5.6																
IM11A	Fine	Moderate	22:04	5.6	S	0.7	170.0	19.7	19.6	33.4	33.5	8.3	8.3	116.9	116.9	8.8	8.8	8.8	8.7	8.7	6.1	10.0	10.0	7.4	7.4
						0.5	161.0	19.6		33.5		8.3		116.9		8.8			8.7			9.7			
						0.5	162.0	19.6		33.5		8.3		116.9		8.8			8.6			10.3			
					M	0.5	194.0	19.4	33.4	8.3	109.5	8.3	3.2	5.4	5.8										
						0.5	208.0	19.4	33.4	8.3	109.5	8.3	3.2	6.1											
						0.4	188.0	19.5	33.4	8.3	109.3	8.2	3.5	5.6											
B	0.4	197.0	19.5	33.4	8.3	109.3	8.2	3.5	5.0	5.3															
	0.4	193.0	19.5	33.4	8.3	108.0	8.1	5.9	7.2																
	0.4	206.0	19.5	33.4	8.3	107.7	8.1	6.0	7.5																
IM12	Fine	Moderate	21:55	16.4	S	0.6	204.0	19.8	19.8	33.1	33.1	8.3	8.3	115.4	115.4	8.7	8.7	8.4	4.0	4.0	7.4	5.1	5.6	5.3	5.3
						0.6	214.0	19.8		33.1		8.3		115.4		8.7			3.9			6.0			
						0.5	197.0	19.5		33.4		8.3		108.2		8.2			5.3			5.0			
					M	0.5	206.0	19.5	33.4	8.3	108.2	8.2	5.1	5.7	5.4										
						0.5	206.0	19.5	33.4	8.3	107.6	8.1	13.2	5.2											
						0.5	220.0	19.5	33.4	8.3	107.6	8.1	13.0	4.5											
B	0.5	206.0	19.5	33.4	8.3	107.6	8.1	8.1	5.2	4.9															
	0.5	206.0	19.5	33.4	8.3	107.6	8.1	8.1	5.2																
	0.5	206.0	19.5	33.4	8.3	107.6	8.1	8.1	5.2																

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Ebb

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		Value	Average	Value
IM15	Cloudy	Moderate	21:09	7.3	S	0.1	126.0	19.6	19.6	33.0	33.0	8.1	8.1	112.4	112.4	8.5	8.5	8.4	3.3	3.3	6.0	5.9	6.7		
						0.1	137.0	19.6	19.6	33.0	33.0	8.1	8.1	112.3	112.3	8.5	8.5	8.4	3.3	3.3	5.8	5.8			
						0.1	109.0	19.6	19.6	33.0	33.0	8.1	8.1	111.1	111.1	8.4	8.4	8.4	4.4	4.4	6.9	7.0			
					M	0.1	116.0	19.6	19.6	33.0	33.0	8.1	8.1	111.1	111.1	8.4	8.4	8.4	4.4	4.4	7.1	7.1		7.0	7.0
						0.1	115.0	19.6	19.6	33.0	33.0	8.1	8.1	107.8	107.8	8.1	8.1	8.1	9.3	9.3	6.7	6.7		7.2	7.2
						0.1	118.0	19.6	19.6	33.0	33.0	8.1	8.1	107.8	107.8	8.1	8.1	8.1	9.3	9.3	7.6	7.6		7.2	7.2
IM16A	Cloudy	Moderate	21:35	7.3	S	0.3	136.0	19.8	19.8	32.5	32.5	8.1	8.1	120.1	120.1	9.1	9.1	9.0	3.4	3.4	6.8	7.3	6.2		
						0.3	138.0	19.8	19.8	32.5	32.5	8.1	8.1	120.1	120.1	9.1	9.1	9.0	3.4	3.4	7.7	7.7			
						0.3	131.0	19.8	19.8	32.6	32.6	8.1	8.1	118.2	118.2	8.9	8.9	8.9	3.5	3.5	6.7	6.2			
					M	0.3	132.0	19.8	19.8	32.6	32.6	8.1	8.1	118.2	118.2	8.9	8.9	8.9	3.5	3.5	5.7	5.7		6.2	6.2
						0.2	123.0	19.7	19.7	32.6	32.6	8.1	8.1	116.2	116.2	8.8	8.8	8.8	3.2	3.2	5.3	5.3		5.1	5.1
						0.2	132.0	19.7	19.7	32.6	32.6	8.1	8.1	116.2	116.2	8.8	8.8	8.8	3.2	3.2	4.9	4.9		5.1	5.1
IM17	Cloudy	Moderate	21:56	5.8	S	0.4	130.0	19.8	19.8	31.8	31.8	8.1	8.1	118.8	118.8	9.0	9.0	9.0	3.6	3.6	3.8	4.3	5.0		
						0.4	138.0	19.8	19.8	31.8	31.8	8.1	8.1	118.8	118.8	9.0	9.0	9.0	3.9	3.9	4.8	4.8			
						0.3	130.0	19.7	19.7	32.0	32.0	8.1	8.1	114.4	114.4	8.7	8.7	8.7	5.5	5.5	6.1	6.1			
					B	0.3	138.0	19.7	19.7	32.0	32.0	8.1	8.1	114.4	114.4	8.7	8.7	8.7	5.5	5.5	5.3	5.3		5.7	5.7
						0.5	153.0	20.0	20.0	31.0	31.0	8.1	8.1	106.1	106.1	8.0	8.0	8.0	1.5	1.5	1.6	1.6		2.1	2.1
						0.5	164.0	20.0	20.0	31.0	31.0	8.1	8.1	106.1	106.1	8.0	8.0	8.0	1.5	1.5	2.5	2.5		2.1	2.1
IM18	Cloudy	Moderate	23:37	17.0	M	0.5	163.0	19.8	19.8	32.1	32.1	8.1	8.1	101.0	101.0	7.6	7.6	7.6	3.6	3.6	2.5	2.4	2.6		
						0.5	165.0	19.8	19.8	32.1	32.1	8.1	8.1	101.0	101.0	7.6	7.6	7.6	3.6	3.6	2.3	2.3			
						0.4	157.0	19.8	19.8	32.2	32.2	8.1	8.1	100.3	100.3	7.6	7.6	7.6	14.4	14.4	3.6	3.6			
					B	0.4	158.0	19.8	19.8	32.2	32.2	8.1	8.1	100.3	100.3	7.6	7.6	7.6	14.4	14.4	2.9	2.9		3.3	3.3
						0.8	169.0	20.0	20.0	30.8	30.8	8.1	8.1	105.1	105.1	8.0	8.0	8.0	0.9	0.9	2.6	2.6		2.7	2.7
						0.8	172.0	20.0	20.0	30.8	30.8	8.1	8.1	105.0	105.0	8.0	8.0	8.0	1.0	1.0	2.7	2.7		2.7	2.7
IM19	Cloudy	Moderate	23:26	18.0	S	0.7	173.0	20.0	20.0	31.3	31.3	8.1	8.1	102.7	102.7	7.8	7.8	7.8	2.0	2.0	2.9	3.0	2.7		
						0.7	189.0	20.0	20.0	31.3	31.3	8.1	8.1	102.7	102.7	7.8	7.8	7.8	2.0	2.0	3.1	3.1			
						0.6	162.0	20.0	20.0	31.9	31.9	8.1	8.1	101.5	101.5	7.7	7.7	7.7	5.6	5.6	2.1	2.1			
					M	0.6	170.0	20.0	20.0	31.9	31.9	8.1	8.1	101.5	101.5	7.7	7.7	7.7	5.6	5.6	3.0	3.0		2.6	2.6
						0.5	234.0	20.8	20.8	30.4	30.4	8.0	8.0	100.9	100.9	7.6	7.6	7.6	5.6	5.6	10.9	10.9		10.7	10.7
						0.5	244.0	20.8	20.8	30.4	30.4	8.0	8.0	100.9	100.9	7.6	7.6	7.6	5.6	5.6	10.4	10.4		10.7	10.7
IM20A	Cloudy	Moderate	22:58	5.4	S	0.3	234.0	20.2	20.2	31.4	31.4	8.0	8.0	100.0	100.0	7.5	7.5	7.5	5.7	5.7	7.2	7.7	9.2		
						0.4	236.0	20.2	20.2	31.4	31.4	8.0	8.0	100.0	100.0	7.5	7.5	7.5	5.7	5.7	8.2	8.2			
						0.4	208.0	20.3	20.3	31.5	31.5	8.0	8.0	99.3	99.3	7.5	7.5	7.5	5.9	5.9	5.5	5.5			
					B	0.4	213.0	20.3	20.3	31.5	31.5	8.0	8.0	99.3	99.3	7.5	7.5	7.5	5.9	5.9	6.4	6.4			
						0.3	204.0	20.3	20.3	31.5	31.5	8.0	8.0	99.9	99.9	7.5	7.5	7.5	5.4	5.4	9.0	9.0			
						0.3	217.0	20.3	20.3	31.5	31.5	8.0	8.0	99.9	99.9	7.5	7.5	7.5	5.4	5.4	10.0	10.0			
IM21A	Cloudy	Moderate	23:09	5.8	S	0.4	222.0	21.6	21.6	31.6	31.6	8.0	8.0	101.8	101.8	7.5	7.5	7.5	5.5	5.5	9.3	9.0	8.8		
						0.4	224.0	21.6	21.6	31.6	31.6	8.0	8.0	101.8	101.8	7.5	7.5	7.5	5.5	5.5	8.6	8.6			
						0.4	219.0	21.6	21.6	31.6	31.6	8.0	8.0	101.8	101.8	7.5	7.5	7.5	5.2	5.2	9.0	9.0			
					B	0.4	219.0	21.6	21.6	31.6	31.6	8.0	8.0	101.8	101.8	7.5	7.5	7.5	5.2	5.2	8.2	8.2			
						0.4	240.0	21.6	21.6	31.6	31.6	8.0	8.0	101.8	101.8	7.5	7.5	7.5	5.2	5.2	8.2	8.2			
						0.4	240.0	21.6	21.6	31.6	31.6	8.0	8.0	101.8	101.8	7.5	7.5	7.5	5.2	5.2	8.2	8.2			

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; S: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
E1	Cloudy	Moderate	14:00	9.5	S	0.1	188.6	20.4	20.4	32.1	32.1	8.1	8.1	119.1	119.6	8.9	8.9	8.7	1.7	1.6	2.4	5.6	6.2		
						0.4	83.6	20.5	20.1	32.1	32.1	8.1	8.1	120.1	112.2	9.0	8.4	8.1	1.4	1.6	2.4	5.1			
						0.3	83.4	20.1	20.1	32.1	32.1	8.1	8.1	111.2	112.2	8.4	8.5	8.1	2.5	2.4	2.4	6.1			
					M	0.2	298.4	20.1	20.1	32.1	32.1	8.0	8.0	113.2	107.8	8.5	8.1	8.1	2.2	2.4	3.2	3.2		5.2	8.0
						0.3	27.9	20.1	20.1	32.1	32.1	8.0	8.0	107.8	107.8	8.1	8.1	8.1	3.2	3.2	3.1	3.2		7.5	
						0.3	27.9	20.1	20.1	32.1	32.1	8.0	8.0	107.7	107.8	8.1	8.1	8.1	3.1	3.2	2.1	2.0		8.5	
E2	Cloudy	Moderate	17:07	9.5	S	0.7	333.7	20.6	20.6	32.0	32.0	8.4	8.4	133.3	135.6	9.9	10.1	9.8	2.1	2.0	4.0	2.4	6.2		
						0.2	359.8	20.7	20.6	32.0	32.0	8.5	8.4	137.8	128.2	10.3	9.2	9.5	1.9	2.1	2.0	2.7			
						0.5	310.8	20.6	20.6	32.0	32.0	8.4	8.4	122.9	133.5	9.2	9.9	8.0	2.1	2.1	2.0	3.0			
					M	0.1	326.5	20.6	20.1	32.1	32.1	8.4	8.3	133.5	104.2	9.9	7.8	7.8	8.0	7.8	8.0	7.8		3.0	13.1
						0.6	202.6	20.1	20.1	32.1	32.1	8.3	8.3	104.2	102.6	7.8	7.7	7.8	7.6	7.8	14.0	13.1		14.0	
						0.6	323.8	20.1	20.1	32.1	32.1	8.3	8.3	102.6	102.6	7.7	8.0	8.0	2.2	2.5	12.2	12.2		0.005	
E3	Cloudy	Rough	15:57	17.8	S	0.4	271.0	19.7	19.7	32.8	32.8	8.3	8.3	115.5	115.5	8.7	8.7	8.6	2.1	2.1	2.8	3.0	2.9		
						0.4	277.0	19.7	19.5	32.8	32.8	8.3	8.3	115.5	113.1	8.7	8.5	8.5	2.1	1.8	1.8	3.2		3.4	
						0.3	269.0	19.5	19.5	33.5	33.5	8.3	8.3	113.1	113.1	8.5	8.5	8.0	1.8	1.8	3.3	3.3			
					M	0.3	284.0	19.5	19.4	33.5	33.5	8.3	8.3	113.0	106.5	8.5	8.0	8.0	2.7	2.5	2.7	2.5			2.7
						0.3	279.0	19.4	19.4	33.5	33.5	8.3	8.3	106.5	106.5	8.0	8.0	8.0	4.6	4.6	4.6	4.6		2.2	
						0.3	304.0	19.4	20.1	33.5	33.5	8.3	8.3	106.4	121.5	8.0	9.1	8.8	1.5	1.5	2.0	2.0		2.0	
E4	Cloudy	Rough	17:09	12.3	S	0.7	21.0	20.1	20.1	32.7	32.7	8.3	8.3	121.5	121.5	9.1	9.1	8.8	1.5	1.5	8.3	2.4	4.0		
						0.7	21.0	20.1	19.5	32.7	33.0	8.3	8.3	121.4	113.1	9.1	8.6	8.6	1.6	6.6	6.3	5.2			
						0.6	29.0	19.5	19.5	33.0	33.0	8.3	8.3	113.1	113.0	8.6	8.6	8.4	6.6	6.3	6.1	4.9			
					M	0.6	31.0	19.5	19.5	33.0	33.0	8.3	8.3	113.0	111.4	8.6	8.4	8.4	6.1	17.0	17.9	17.0		4.9	4.7
						0.5	32.0	19.5	19.5	33.0	33.0	8.3	8.3	111.4	111.3	8.4	8.4	8.4	4.9	4.5	4.5	4.5		4.5	
						0.5	34.0	19.5	19.9	33.0	32.4	8.3	8.0	111.3	120.6	8.4	9.1	9.0	6.6	8.6	8.6	6.6		8.6	
E5	Cloudy	Moderate	18:25	7.2	S	0.6	23.0	19.9	19.9	32.4	32.4	8.0	8.0	120.6	120.6	9.1	9.1	9.0	8.6	8.6	10.8	7.5	11.2		
						0.7	25.0	19.9	19.8	32.4	32.5	8.0	8.0	120.6	117.8	9.1	8.9	8.9	8.6	8.6	11.3	11.3		10.5	
						0.7	20.0	19.8	19.8	32.5	32.5	8.0	8.0	117.8	117.8	8.9	8.9	8.6	11.3	11.3	11.3	11.3		9.8	
					M	0.6	22.0	19.8	19.8	32.5	32.5	8.0	8.0	117.8	114.0	8.9	8.6	8.6	12.5	12.5	12.5	12.5		16.3	16.0
						0.6	22.0	19.8	19.8	32.5	32.5	8.0	8.0	114.0	114.0	8.6	8.6	8.6	15.7	16.0	15.7	15.7		15.7	
						0.6	22.0	19.8	19.9	32.5	32.4	8.0	8.0	114.0	120.6	8.6	9.1	9.0	12.5	12.5	12.5	12.5		12.5	
E6	Cloudy	Moderate	17:15	6.4	S	0.8	343.0	20.2	20.2	30.7	30.7	8.1	8.1	104.3	104.3	7.9	7.9	7.8	3.0	3.0	6.0	9.0	9.3		
						0.8	353.0	20.2	20.0	30.7	31.4	8.1	8.1	104.3	100.9	7.9	7.6	7.6	3.0	3.0	3.0	3.0		9.8	
						0.7	342.0	20.0	20.0	31.4	31.4	8.1	8.1	100.9	100.9	7.6	7.6	7.6	7.4	7.4	7.4	7.4		9.1	
					M	0.7	5.0	20.0	20.0	31.4	31.5	8.1	8.1	100.9	100.8	7.6	7.6	7.6	7.4	7.4	7.4	7.4		8.3	8.7
						0.6	339.0	20.0	20.0	31.5	31.5	8.1	8.1	100.8	100.8	7.6	7.6	7.6	10.1	9.8	7.6	7.6		10.1	
						0.6	10.0	20.0	20.0	31.5	31.5	8.1	8.1	100.8	100.8	7.6	7.6	7.6	9.4	9.4	9.4	9.4		9.4	
E7A	Cloudy	Moderate	16:54	5.4	S	0.5	15.0	20.5	20.5	30.1	30.1	8.1	8.1	103.6	103.6	7.8	7.8	7.8	1.6	1.6	2.4	1.9	2.6		
						0.5	15.0	20.5	20.1	30.1	31.2	8.1	8.0	103.6	102.5	7.8	7.7	7.7	1.6	1.6	3.1	3.1		1.9	
						0.3	15.0	20.1	20.1	31.2	31.2	8.0	8.0	102.5	102.5	7.7	7.7	7.7	3.1	3.1	3.1	3.1		2.8	
					B	0.3	15.0	20.1	20.4	31.2	32.4	8.0	8.2	102.5	112.2	7.7	8.4	8.5	3.1	1.0	1.0	1.0		3.8	3.3
						0.5	211.5	20.4	20.4	32.4	32.4	8.2	8.2	112.2	114.5	8.4	8.5	8.1	1.0	1.0	1.0	1.0		1.4	
						0.5	211.5	20.4	20.0	32.4	32.5	8.2	8.2	110.7	101.1	8.7	7.6	7.6	1.0	1.0	1.0	1.0		1.5	
F1	Cloudy	Moderate	14:50	20.5	M	0.8	332.7	20.0	20.0	32.5	32.5	8.2	8.2	116.7	101.1	7.6	7.6	7.5	1.7	1.7	2.2	2.9	2.4		
						0.8	332.7	20.0	20.0	32.5	32.5	8.2	8.2	101.2	101.1	7.6	7.6	7.5	1.6	1.7	1.6	1.7		2.1	
						0.6	350.9	20.0	20.0	32.6	32.6	8.2	8.2	100.3	100.0	7.5	7.5	7.5	3.8	3.8	3.8	3.8		3.1	
					B	0.2	157.3	20.0	20.0	32.6	32.6	8.2	8.2	99.6	100.0	7.5	7.5	7.5	3.8	3.8	3.8	3.8		3.6	
						1.1	352.8	20.3	20.2	32.5	32.5	8.3	8.3	109.2	109.7	8.2	8.2	7.9	0.9	0.9	0.9	0.9		1.4	
						1.1	352.8	20.2	20.2	32.5	32.5	8.3	8.3	110.1	109.7	8.2	8.2	7.9	0.8	0.9	0.9	0.9		1.6	
F2	Cloudy	Moderate	15:18	20.0	M	0.8	286.9	20.0	20.0	32.6	32.6	8.2	8.2	101.2	101.3	7.6	7.6	7.5	1.4	1.3	2.2	1.6	3.7		
						0.5	66.1	20.0	20.0	32.6	32.6	8.2	8.2	101.2	101.3	7.6	7.6	7.5	1.2	1.3	1.3	1.3		1.4	
						0.9	40.7	20.0	20.0	32.6	32.6	8.2	8.2	99.1	99.0	7.4	7.4	7.4	4.6	4.5	4.6	4.5		7.6	
					B	0.9	40.7	20.0	20.0	32.6	32.6	8.2	8.2	99.1	99.0	7.4	7.4	7.4	4.6	4.5	4.6	4.5		7.6	
						0.9	40.7	20.0	20.0	32.6	32.6	8.2	8.2	98.9	99.0	7.4	7.4	7.4	4.4	4.5	4.4	4.5		8.6	
						0.9	40.7	20.0	20.0	32.6	32.6	8.2	8.2	98.9	99.0	7.4	7.4	7.4	4.4	4.5	4.4	4.5		8.6	

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*
F3	Cloudy	Moderate	15:53	18.6	S	0.6	287.4	20.4	20.4	32.4	32.4	8.3	8.3	119.1	119.6	8.9	8.9	8.3	0.9	0.9	2.3	1.6	2.1	3.6	<0.001
						0.6	287.4	20.4		32.4	32.4	8.3		120.1	9.0	0.8			2.5			<0.001			
					M	0.7	280.2	20.0	32.6	32.6	8.3	103.4	7.8	2.1	2.2	<0.001									
						0.2	248.8	20.0	32.6	32.6	8.3	103.7	7.8	2.0	3.2	<0.001									
					B	0.9	333.0	20.0	32.6	32.6	8.3	102.2	7.7	4.2	5.7	<0.001									
						0.2	13.0	20.0	32.6	32.6	8.3	101.6	7.6	4.0	6.5	<0.001									
F4	Cloudy	Moderate	16:42	14.4	S	0.9	255.2	20.3	20.2	32.1	32.1	8.4	8.4	133.7	134.9	10.0	10.1	9.5	2.2	2.1	7.5	2.2	2.5	12.0	0.002
						0.9	255.2	20.2		32.1	32.1	8.4		136.1	10.2	2.0			2.8						
					M	0.2	344.3	20.0	32.1	32.1	8.4	119.0	9.0	5.9	6.9										
						0.6	241.7	20.0	32.1	32.1	8.4	118.2	8.9	5.8	6.2										
					B	0.7	329.3	19.9	32.1	32.1	8.3	113.4	8.5	14.4	25.1										
						0.7	329.3	19.9	32.1	32.1	8.3	113.0	8.5	14.8	28.6										
F5	Cloudy	Moderate	19:07	7.1	S	0.4	33.0	19.6	19.6	32.9	32.9	8.0	8.0	112.8	112.8	8.5	8.5	8.4	4.4	4.4	5.1	6.4	6.9	7.7	7.4
						0.4	33.0	19.6		32.9	32.9	8.0		112.8	8.5	4.4			7.4						
					M	0.3	34.0	19.6	32.9	32.9	8.0	110.7	8.4	5.3	8.2										
						0.3	35.0	19.6	32.9	32.9	8.0	110.7	8.4	5.3	8.0										
					B	0.2	32.0	19.6	32.9	32.9	8.0	108.2	8.2	5.5	8.3										
						0.2	34.0	19.6	32.9	32.9	8.0	108.2	8.2	5.5	7.8										
F6	Cloudy	Moderate	15:18	15.2	S	0.2	288.0	20.2	20.2	31.3	31.3	7.9	7.9	105.3	105.3	7.9	7.9	3.1	0.8	0.8	3.1	2.7	2.9	2.3	3.0
						0.3	297.0	20.2		31.3	31.3	7.9		105.3	7.9	0.8			3.0						
					M	0.3	298.0	19.9	31.4	31.4	7.9	104.0	7.9	2.4	2.1										
						0.3	301.0	19.9	31.4	31.4	7.9	104.0	7.9	2.4	3.0										
					B	0.2	351.0	19.7	32.0	32.0	7.8	102.9	7.8	6.2	1.6										
						0.2	3.0	19.7	32.0	32.0	7.8	102.9	7.8	6.2	1.5										
IM1	Cloudy	Moderate	14:32	10.5	S	0.3	134.6	20.3	20.3	32.4	32.4	8.2	8.2	113.3	114.4	8.5	8.6	8.3	1.4	1.4	2.6	1.8	1.9	3.6	2.0
						0.3	134.6	20.3		32.4	32.4	8.2		115.5	8.6	1.3			1.9						
					M	0.4	7.1	20.0	32.5	32.5	8.1	105.9	8.0	1.9	2.6										
						0.6	128.9	20.0	32.5	32.5	8.1	106.3	8.0	1.8	3.5										
					B	3.1	47.1	20.0	32.5	32.5	8.1	103.2	7.7	4.5	5.4										
						0.4	229.6	20.0	32.5	32.5	8.1	102.9	7.7	4.7	6.3										
IM2	Cloudy	Moderate	14:12	12.0	S	1.1	48.6	20.5	20.5	32.0	32.0	8.2	8.2	125.8	128.1	9.4	9.5	8.9	1.7	1.7	2.9	2.7	3.1	8.5	3.4
						0.3	79.6	20.6		32.0	32.0	8.2		130.3	9.7	1.6			3.4						
					M	0.3	290.5	20.1	32.2	32.2	8.1	108.6	8.2	2.0	3.7										
						0.3	290.5	20.1	32.2	32.2	8.1	110.2	8.3	1.8	4.0										
					B	0.2	64.5	20.0	32.4	32.4	8.1	104.3	7.8	5.6	9.2										
						0.3	298.7	20.0	32.4	32.4	8.1	102.7	7.7	4.6	27.8										
IM3	Cloudy	Moderate	17:53	16.0	S	0.2	38.0	20.4	20.4	32.1	32.1	8.5	8.5	134.0	137.2	10.0	10.3	9.4	1.2	1.2	6.1	3.2	2.8	9.2	2.4
						0.9	248.1	20.4		32.1	32.1	8.5		140.4	10.5	1.2			2.4						
					M	0.5	150.1	20.0	32.1	32.1	8.4	112.0	8.4	2.2	3.3										
						0.5	150.1	20.0	32.1	32.1	8.4	113.7	8.6	1.9	3.0										
					B	0.7	294.4	19.9	32.4	32.4	8.3	104.2	7.8	14.3	27.6										
						0.7	294.4	19.9	32.4	32.4	8.3	102.4	7.7	15.8	15.9										
IM4	Cloudy	Moderate	17:32	18.1	S	0.4	263.6	20.4	20.4	31.9	31.9	8.5	8.5	140.0	142.5	10.5	10.6	9.8	1.3	1.3	3.3	2.7	2.9	6.3	3.1
						0.4	263.6	20.4		31.9	31.9	8.5		144.9	10.8	1.3			3.1						
					M	0.1	213.8	20.1	32.0	32.0	8.4	117.2	8.8	2.1	2.5										
						1.0	254.0	20.1	32.0	32.0	8.4	121.7	9.2	1.9	3.4										
					B	0.6	254.4	19.9	32.3	32.3	8.3	106.7	8.0	6.0	12.3										
						0.6	254.4	19.9	32.3	32.3	8.3	104.5	7.9	7.0	13.9										
IM5	Cloudy	Moderate	16:17	16.5	S	0.6	300.6	20.4	20.4	32.0	32.0	8.4	8.4	131.7	135.9	9.8	10.2	9.3	1.2	1.2	4.7	2.9	2.7	3.0	2.5
						0.6	300.6	20.4		32.0	32.0	8.4		140.0	10.5	1.2			2.5						
					M	0.7	296.5	19.8	32.2	32.2	8.3	113.1	8.5	1.4	2.1										
						0.2	324.1	19.8	32.2	32.2	8.3	113.3	8.6	1.3	2.9										
					B	0.5	245.8	19.8	32.2	32.2	8.3	110.2	8.3	10.7	4.2										
						0.4	194.0	19.8	32.2	32.2	8.3	108.9	8.2	12.1	3.2										

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Flood

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current		Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)			
						Velocity (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value		Average	DA*	
IM6	Cloudy	Moderate	16:03	17.0	S	0.4	333.1	20.5	20.5	32.1	32.1	8.4	8.4	120.0	131.7	9.0	9.8	9.1	1.0	1.1	2.1	3.0	3.4	4.0	<0.001	
						0.4	333.1	20.5		32.1		8.4		143.4		10.7			1.1			3.7			<0.001	
						0.4	71.1	19.9		32.4		8.3		110.1		8.3			1.1			1.4			<0.001	
					M	0.4	71.1	19.9	19.9	32.4	32.4	8.3	8.3	112.6	111.4	8.5	8.4	9.1	0.9	1.0	2.1	1.8	1.6	4.0	1.8	<0.001
						0.3	270.7	20.0	20.0	32.5		8.3		105.2		7.9			3.9			4.3			<0.001	
						1.1	270.2	20.0	32.5	8.3		102.2		7.7		4.5			9.9			<0.001				
B	0.3	337.0	19.9	19.9	33.5	33.5	8.3	8.3	128.2	128.1	9.6	9.6	9.2	0.9	0.9	1.4	4.5	4.1	3.0	4.5	<0.001					
	0.3	338.0	19.9	33.5	8.3		128.0		9.6		0.9			3.6			<0.001									
	0.1	202.0	19.5	19.5	33.5		8.2		118.1		8.9			1.2			2.1			<0.001						
IM7	Cloudy	Rough	15:03	14.2	S	0.1	202.0	19.5	19.5	33.5	33.5	8.2	8.2	118.0	118.0	8.9	8.9	9.2	1.2	1.2	1.4	2.1	2.3	3.0	2.5	
						0.2	209.0	19.5		33.5		8.2		117.9		8.9			1.2			2.2			2.2	
						0.2	100.0	19.4		19.4		33.5		8.2		109.7			8.3			2.1			2.2	
					M	0.2	101.0	19.4	19.4	33.5	33.5	8.2	8.2	109.7	109.7	8.3	8.3	8.3	2.0	2.1	1.6	3.0	2.6	3.0	3.0	<0.001
						0.3	295.0	19.8	19.8	33.5		8.3		124.5		9.3			1.2			1.2			3.8	3.3
						0.3	308.0	19.8	19.8	33.5		8.3		124.4		9.3			1.2			2.8			2.8	
B	0.1	336.0	19.4	19.4	33.6	33.6	8.2	8.2	112.5	112.6	8.5	8.5	8.9	1.9	1.8	1.6	3.3	2.8	2.8	3.3	<0.001					
	0.1	347.0	19.4	19.4	33.6		8.2		112.6		8.5			1.8			2.3			2.3						
	0.1	310.0	19.4	19.4	33.6		8.2		111.6		8.4			1.9			2.8			2.8						
IM8	Cloudy	Rough	15:11	13.1	S	0.1	328.0	19.4	19.4	33.6	33.6	8.2	8.2	111.6	111.6	8.4	8.4	8.4	1.9	1.9	1.6	1.9	2.4	2.8	1.9	
						0.1	348.0	20.1		20.1		33.5		8.3		123.3			9.2			1.3			2.4	2.4
						0.1	21.0	20.0		20.1		33.5		8.3		123.1			9.2			1.3			1.5	1.5
					M	0.1	313.0	19.4	19.4	33.5	33.5	8.3	8.3	112.7	112.6	8.5	8.5	8.8	1.9	2.0	1.8	1.7	2.2	2.1	1.7	2.2
						0.1	329.0	19.4	19.4	33.5		8.3		112.5		8.5			2.0			2.7			2.7	
						0.1	296.0	19.4	19.4	33.6		8.3		110.1		8.3			2.2			2.1			2.1	
B	0.1	312.0	19.4	19.4	33.6	33.6	8.3	8.3	110.0	110.1	8.3	8.3	8.3	2.2	2.2	1.6	2.2	2.2	2.8	2.2	<0.001					
	0.3	300.0	20.3	20.3	33.3		8.3		119.0		8.8			2.7			2.9			2.9						
	0.3	311.0	20.3	20.3	33.3		8.3		118.9		8.8			2.7			3.5			3.2						
IM9	Cloudy	Rough	15:31	14.9	S	0.4	327.0	19.6	19.6	33.4	33.4	8.3	8.3	112.2	112.2	8.4	8.4	8.6	4.6	4.7	6.6	3.8	3.9	3.9	3.9	
						0.5	342.0	19.6		19.6		33.4		8.3		112.2			8.4			4.8			4.8	
						0.2	324.0	19.6		19.6		33.4		8.3		111.2			8.4			12.4			12.4	
					M	0.2	344.0	19.6	19.6	33.4	33.4	8.3	8.3	111.2	111.2	8.4	8.4	8.4	12.4	12.4	1.8	4.0	4.5	2.1	5.0	<0.001
						0.7	249.0	19.5	19.5	33.4		8.3		107.3		8.1			14.0			30.6			32.2	
						0.8	258.0	19.5	19.5	33.4		8.3		107.2		8.1			14.0			33.7			32.2	
B	0.7	250.0	19.5	19.5	33.4	33.4	8.3	8.3	105.7	105.6	8.0	8.0	8.0	15.8	15.8	1.4	16.2	15.8	24.0	15.8	<0.001					
	0.7	268.0	19.5	19.5	33.4		8.3		105.5		8.0			15.9			15.4									
	0.8	336.0	19.5	19.5	33.4		8.3		109.7		8.3			3.3			10.7			10.2						
IM10	Cloudy	Rough	16:15	12.8	S	0.8	357.0	19.5	19.5	33.4	33.4	8.3	8.3	109.6	109.7	8.3	8.3	8.2	3.3	3.3	6.2	10.7	10.2	11.6	9.7	
						0.9	327.0	19.4		19.4		33.5		8.3		107.6			8.1			6.5			14.6	14.1
						0.9	345.0	19.4		19.4		33.5		8.3		107.5			8.1			6.5			13.5	13.5
					M	0.9	331.0	19.4	19.4	33.5	33.5	8.3	8.3	106.9	106.9	8.1	8.1	8.1	8.7	8.8	1.4	11.0	10.5	11.6	11.0	<0.001
						1.0	352.0	19.4	19.4	33.5		8.3		106.9		8.1			8.8			10.0			10.0	
						1.0	312.0	19.7	19.7	32.8		8.3		120.1		9.1			1.7			2.1			2.6	
B	1.1	317.0	19.7	19.7	32.8	32.8	8.3	8.3	120.0	120.1	9.0	9.0	8.7	1.7	1.7	5.5	3.1	9.0	6.9	3.1	<0.001					
	0.9	319.0	19.4	19.4	33.0		8.3		109.1		8.3			2.4			8.6			8.6						
	0.9	339.0	19.4	19.4	33.0		8.3		108.9		8.3			2.5			9.4			9.4						
IM11A	Cloudy	Rough	16:24	5.1	S	0.6	317.0	19.4	19.4	33.2	33.2	8.3	8.3	105.6	105.6	8.0	8.0	8.0	12.4	12.4	1.4	8.5	9.0	9.6	9.5	
						0.7	319.0	19.4		19.4		33.2		8.3		105.6			8.0			12.4			12.4	
						0.7	8.0	19.7		19.7		32.8		8.3		117.7			8.9			3.7			3.7	
					M	0.8	8.0	19.7	19.7	32.8	32.8	8.3	8.3	117.6	117.7	8.9	8.9	8.6	3.7	3.7	1.4	4.5	4.0	9.6	4.5	<0.001
						0.8	13.0	19.4	19.4	33.1		8.3		109.0		8.2			14.0			9.4			9.7	
						0.8	13.0	19.4	19.4	33.1		8.3		109.0		8.2			14.0			9.9			9.7	
B	0.7	30.0	19.4	19.4	33.1	33.1	8.3	8.3	108.6	108.6	8.2	8.2	8.2	16.5	16.6	1.4	14.9	15.2	9.6	14.9	<0.001					
	0.7	30.0	19.4	19.4	33.1		8.3		108.6		8.2			16.6			15.5									

Water Quality Monitoring Data Log Sheet

Date: 2020/01/22

Tide: Mid-Flood

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)		Suspended Solids (mg/L)		Total Residual Chlorine (mg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		Value	Average	Value	Average
IM15	Cloudy	Moderate	18:40	7.1	S	0.7	21.0	19.8	19.8	32.7	32.7	8.0	8.0	117.9	117.9	8.9	8.9	8.7	5.3	5.3	5.0	5.3	7.9			
						0.7	22.0	19.8		32.7	32.7	8.0	8.0	117.9	117.9	8.9	8.9		5.3		5.3					
						0.7	18.0	19.6		32.9	32.9	8.0	8.0	114.2	114.2	8.6	8.6		6.9		6.9					
					M	0.7	18.0	19.6	19.6	32.9	32.9	8.0	8.0	114.2	114.2	8.6	8.6	8.2	8.2	8.2	8.2	6.9		6.9	6.2	6.6
						0.6	17.0	19.6		32.9	32.9	8.0		8.0	108.5	108.5		8.2		8.2		6.9			6.9	
						0.6	17.0	19.6		32.9	32.9	8.0		8.0	108.5	108.5		8.2		8.2		6.9			6.9	
IM16A	Cloudy	Moderate	18:11	7.0	S	0.6	16.0	20.6	20.6	28.9	28.9	8.0	8.0	121.9	121.5	9.2	9.2	9.0	2.9	3.2	2.1	1.7	3.1			
						0.6	16.0	20.6		28.9	28.9	8.0	8.0	121.1	121.5	9.2	9.2		3.5		3.2					
						0.6	16.0	19.9		31.2	31.2	8.0	8.0	116.4	116.4	8.8	8.8		7.3		7.3					
					M	0.6	16.0	19.9	19.9	31.2	31.2	8.0	8.0	116.4	116.4	8.8	8.8	8.8	8.8	8.8	8.8	7.3		7.3	2.4	1.9
						0.5	13.0	19.7		32.2	32.2	8.0		8.0	113.4	113.4		8.6		8.6		9.0			9.0	
						0.5	14.0	19.7		32.2	32.2	8.0		8.0	113.4	113.4		8.6		8.6		9.0			9.0	
IM17	Cloudy	Moderate	17:44	5.8	S	0.6	346.0	20.4	20.4	30.4	30.4	8.2	8.2	111.9	111.9	8.4	8.4	8.4	6.6	6.6	2.4	2.0	1.8			
						0.6	15.0	20.4		30.4	30.4	8.2	8.2	111.9	111.9	8.4	8.4		6.6		6.6					
						0.4	348.0	19.9		31.8	31.8	8.2	8.2	108.9	108.9	8.2	8.2		15.6		15.6					
					B	0.4	357.0	19.9	19.9	31.8	31.8	8.2	8.2	108.9	108.9	8.2	8.2	8.2	8.2	8.2	8.2	15.6		15.6	1.2	1.6
						0.4	357.0	19.9		31.8	31.8	8.2		8.2	108.9	108.9		8.2		8.2		15.6			15.6	
						0.4	357.0	19.9		31.8	31.8	8.2		8.2	108.9	108.9		8.2		8.2		15.6			15.6	
IM18	Cloudy	Moderate	16:01	17.4	S	0.2	338.0	20.5	20.5	30.8	30.8	7.9	7.9	103.0	103.0	7.7	7.7	7.5	1.1	1.1	1.1	2.4	3.3			
						0.2	346.0	20.5		30.8	30.8	7.9	7.9	103.0	103.0	7.7	7.7		1.1		1.1					
						0.4	337.0	19.8		32.1	32.1	7.9	7.9	96.8	96.8	7.3	7.3		3.9		3.9					
					M	0.4	9.0	19.8	19.8	32.1	32.1	7.9	7.9	96.8	96.8	7.3	7.3	7.3	7.3	7.3	7.3	3.9		3.9	2.3	2.6
						0.4	339.0	19.8		32.1	32.1	7.9		7.9	97.9	97.9		7.4		7.4		9.6			9.6	
						0.4	10.0	19.8		32.1	32.1	7.9		7.9	97.9	97.9		7.4		7.4		9.6			9.6	
IM19	Cloudy	Moderate	16:12	17.7	S	0.5	359.0	20.0	20.0	31.5	31.5	7.9	7.9	99.8	99.8	7.5	7.5	7.5	0.6	0.6	0.6	2.0	2.1			
						0.5	6.0	20.0		31.5	31.5	7.9	7.9	99.8	99.8	7.5	7.5		0.6		0.6					
						0.5	349.0	19.8		31.9	31.9	7.9	7.9	97.4	97.4	7.4	7.4		1.0		1.0					
					M	0.6	21.0	19.8	19.8	31.9	31.9	7.9	7.9	97.4	97.4	7.4	7.4	7.4	7.4	7.4	7.4	1.0		1.0	2.4	2.0
						0.5	346.0	19.8		32.1	32.1	7.9		7.9	97.7	97.7		7.4		7.4		2.6			2.6	
						0.5	348.0	19.8		32.1	32.1	7.9		7.9	97.7	97.7		7.4		7.4		2.6			2.6	
IM20A	Cloudy	Moderate	16:38	4.8	S	0.5	58.0	20.6	20.6	31.1	31.1	8.0	8.0	103.0	103.0	7.7	7.7	7.7	1.8	1.8	1.8	2.9	4.1			
						0.5	59.0	20.6		31.1	31.1	8.0	8.0	103.0	103.0	7.7	7.7		1.8		1.8					
						0.4	60.0	20.4		31.1	31.1	8.0	8.0	102.5	102.5	7.7	7.7		1.9		1.9					
					B	0.4	63.0	20.4	20.4	31.1	31.1	8.0	8.0	102.5	102.5	7.7	7.7	7.7	7.7	7.7	7.7	1.9		1.9	5.8	5.4
						0.5	26.0	21.1		31.1	31.1	8.0		8.0	102.7	102.7		7.6		7.6		1.6			1.6	
						0.5	28.0	21.1		31.1	31.1	8.0		8.0	102.7	102.7		7.6		7.6		1.6			1.6	
IM21A	Cloudy	Moderate	16:32	5.1	S	0.4	25.0	20.2	20.2	31.6	31.6	8.0	8.0	101.3	101.3	7.6	7.6	7.6	1.8	1.8	1.8	7.2	8.0			
						0.5	26.0	20.2		31.6	31.6	8.0	8.0	101.3	101.3	7.6	7.6		1.8		1.8					
						0.4	43.0	20.4		31.5	31.5	7.9	7.9	100.1	100.1	7.5	7.5		2.0		2.0					
					B	0.4	46.0	20.4	20.4	31.5	31.5	7.9	7.9	100.1	100.1	7.5	7.5	7.5	7.5	7.5	7.5	2.0		2.0	3.8	3.4
						0.3	42.0	19.9		31.9	31.9	7.9		7.9	99.3	99.3		7.5		7.5		2.7			2.7	
						0.3	46.0	19.9		31.9	31.9	7.9		7.9	99.3	99.3		7.5		7.5		2.7			2.7	

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; S: 1 m above the seabed