

Appendix J

Water Quality Monitoring Results and their Graphical Presentation

Project Name: Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3
 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling - Stage 2

Date of Monitoring 12/2/2016 Weather: Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	9:46	<0.5	20.2	20.2	7.1	7.1	6.7	6.7	71.1	71.2	6.6	6.6	<0.1	<0.1	12.0	12.0
			20.2		7.1		6.7		71.2		6.6					
C3b	9:18	<0.5	19.2	19.2	7.3	7.3	7.0	7.0	75.9	75.9	6.8	6.8	<0.1	<0.1	8.1	8.2
			19.2		7.3		7.0		75.9		6.8					
I5	9:28	<0.5	19.0	19.0	7.3	7.3	7.0	7.0	75.4	75.4	6.0	6.0	<0.1	<0.1	5.5	6.6
			19.0		7.3		7.0		75.4		6.0					

Date of Monitoring 12/5/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:10	<0.5	24.8	24.8	6.9	6.9	7.1	7.1	85.9	85.9	12.7	12.7	<0.1	<0.1	11.0	11.0
			24.8		6.9		7.1		85.9		12.7					
C3b	11:40	<0.5	23.4	23.4	7.3	7.3	7.6	7.6	89.1	89.1	13.5	13.5	<0.1	<0.1	14.0	14.0
			23.4		7.3		7.6		89.1		13.5					
I5	11:59	<0.5	24.8	24.8	7.3	7.3	8.6	8.6	103.6	103.6	7.7	7.7	<0.1	<0.1	7.4	6.9
			24.8		7.3		8.6		103.6		7.7					

Date of Monitoring 12/7/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	9:00	<0.5	19.8	19.8	6.8	6.8	6.6	6.6	72.3	72.3	20.0	20.0	<0.1	<0.1	22.0	27.0
			19.8		6.8		6.6		72.3		20.0					
C3b	9:26	<0.5	19.1	19.1	7.4	7.4	8.5	8.5	92.0	92.0	3.9	3.9	<0.1	<0.1	3.6	3.6
			19.1		7.4		8.5		92.0		3.9					
I5	9:38	<0.5	19.0	19.0	7.3	7.3	9.4	9.4	100.9	100.9	4.0	4.0	<0.1	<0.1	4.1	3.9
			19.0		7.3		9.4		100.9		4.0					

Date of Monitoring 12/9/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	8:59	<0.5	18.0	18.0	7.0	7.0	7.2	7.2	76.0	76.0	5.9	5.9	<0.1	<0.1	7.6	6.7
			18.0		7.0		7.2		76.0		5.9					
C3b	9:25	<0.5	18.0	18.0	7.3	7.3	8.8	8.8	92.7	92.7	3.2	3.2	<0.1	<0.1	2.9	2.9
			18.0		7.3		8.8		92.7		3.2					
I5	9:38	<0.5	17.5	17.5	7.3	7.3	9.1	9.1	95.3	95.3	3.9	3.9	<0.1	<0.1	2.6	2.7
			17.5		7.3		9.1		95.3		3.9					

Date of Monitoring 12/12/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	12:04	<0.5	24.0	24.0	7.0	7.0	6.0	6.0	71.4	71.3	14.1	14.2	<0.1	<0.1	16.0	16.0
			24.0		7.0		6.0		71.2		14.2					
C3b	11:12	<0.5	22.7	22.7	7.4	7.4	9.6	9.6	110.0	110.0	5.0	4.9	<0.1	<0.1	5.3	5.6
			22.7		7.4		9.6		110.9		4.8					
I5	11:19	<0.5	21.5	21.5	7.3	7.3	6.0	6.0	67.8	67.9	4.1	4.0	<0.1	<0.1	3.8	3.8
			21.5		7.3		6.0		68.0		3.9					

Date of Monitoring 12/14/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:49	<0.5	22.6	22.6	7.2	7.2	7.4	7.4	85.3	85.3	20.0	20.0	<0.1	<0.1	18.0	18.0
			22.6		7.2		7.4		85.3		20.0					
C3b	11:14	<0.5	21.1	21.1	7.4	7.4	7.9	7.9	88.7	88.7	7.7	7.7	<0.1	<0.1	6.0	6.0
			21.1		7.4		7.9		88.7		7.7					
I5	11:30	<0.5	21.9	21.9	7.2	7.2	9.9	9.9	113.1	113.1	4.0	4.0	<0.1	<0.1	3.8	3.7
			21.9		7.2		9.9		113.1		4.0					

Date of Monitoring 12/16/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:34	<0.5	19.8	19.8	7.7	7.7	8.6	8.6	94.2	94.2	9.9	9.9	<0.1	<0.1	5.2	6.3
			19.8		7.7		8.6		94.2		9.9					
C3b	11:55	<0.5	18.0	18.0	7.6	7.6	8.9	8.9	93.9	93.9	5.6	5.6	<0.1	<0.1	4.2	4.4
			18.0		7.6		8.9		93.9		5.6					
I5	12:09	<0.5	19.1	19.1	7.6	7.6	11.5	11.5	124.2	124.2	6.5	6.5	<0.1	<0.1	6.2	7.3
			19.1		7.6		11.5		124.2		6.5					

Date of Monitoring 12/19/2016 Weather: Sunny

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:10	<0.5	22.7	22.7	7.4	7.4	7.0	7.0	81.0	81.0	15.1	15.1	<0.1	<0.1	10.0	9.9
			22.7		7.4		7.0		81.0		15.1					
C3b	11:38	<0.5	20.8	20.8	7.3	7.3	7.6	7.6	84.4	84.4	4.0	4.0	<0.1	<0.1	2.6	2.9
			20.8		7.3		7.6		84.4		4.0					
I5	11:55	<0.5	23.0	23.0	7.3	7.3	10.1	10.1	118.2	118.2	4.7	4.7	<0.1	<0.1	4.5	4.7
			23.0		7.3		10.1		118.2		4.7					

Date of Monitoring 12/21/2016 Weather: Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	16:15	<0.5	22.6	22.6	7.0	7.0	6.0	6.0	69.8	69.8	22.0	22.0	<0.1	<0.1	11.0	14.0
			22.6		7.0		6.0		69.8		22.0					
C3b	16:33	<0.5	21.6	21.6	7.1	7.1	7.4	7.4	84.2	84.2	5.6	5.6	<0.1	<0.1	4.3	4.2
			21.6		7.1		7.4		84.2		5.6					
I5	16:45	<0.5	22.5	22.5	7.1	7.1	8.7	8.7	100.9	100.9	7.8	7.8	<0.1	<0.1	4.8	5.7
			22.5		7.1		8.7		100.9		7.8					

Date of Monitoring 12/23/2016 Weather: Cloudy

NOTE:
 Data in **Bold** denotes exceedance of respective Action Level
 Data in **Bold Underline** denotes exceedance of respective Limit Level

Project Name: Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3
 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling - Stage 2

Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:07	<0.5	20.7	20.7	6.5	6.5	6.5	6.5	73.0	73.0	18.4	16.4	<0.1	<0.1	15.0	15.0
			20.7		6.5		6.5		73.0		16.4					
C3b	11:25	<0.5	20.0	20.0	6.8	6.8	7.8	7.8	86.1	86.1	7.8	7.8	<0.1	<0.1	6.6	6.7
			20.0		6.8		7.8		86.1		7.8					
I5	11:34	<0.5	20.6	20.6	7.1	7.1	9.9	9.9	110.5	110.5	8.4	8.4	<0.1	<0.1	5.3	5.3
			20.6		7.1		9.9		110.5		8.4					

Date of Monitoring 12/28/2016 Weather : Cloudy

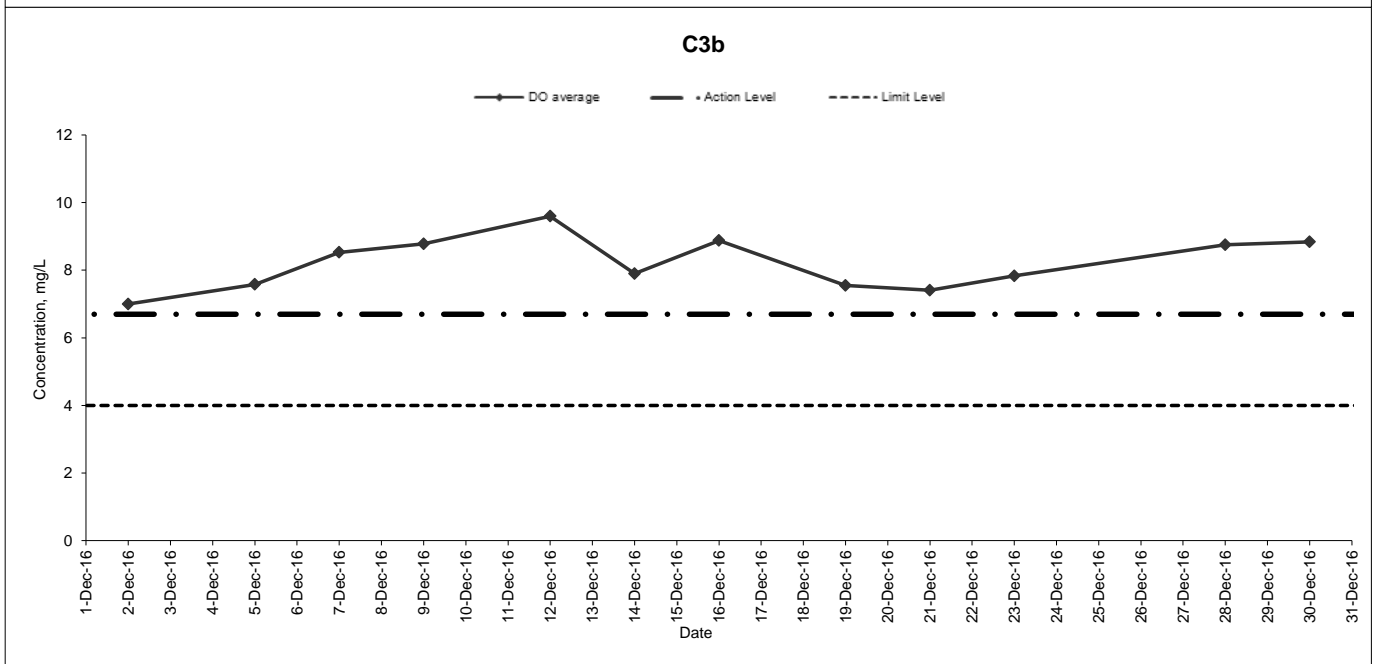
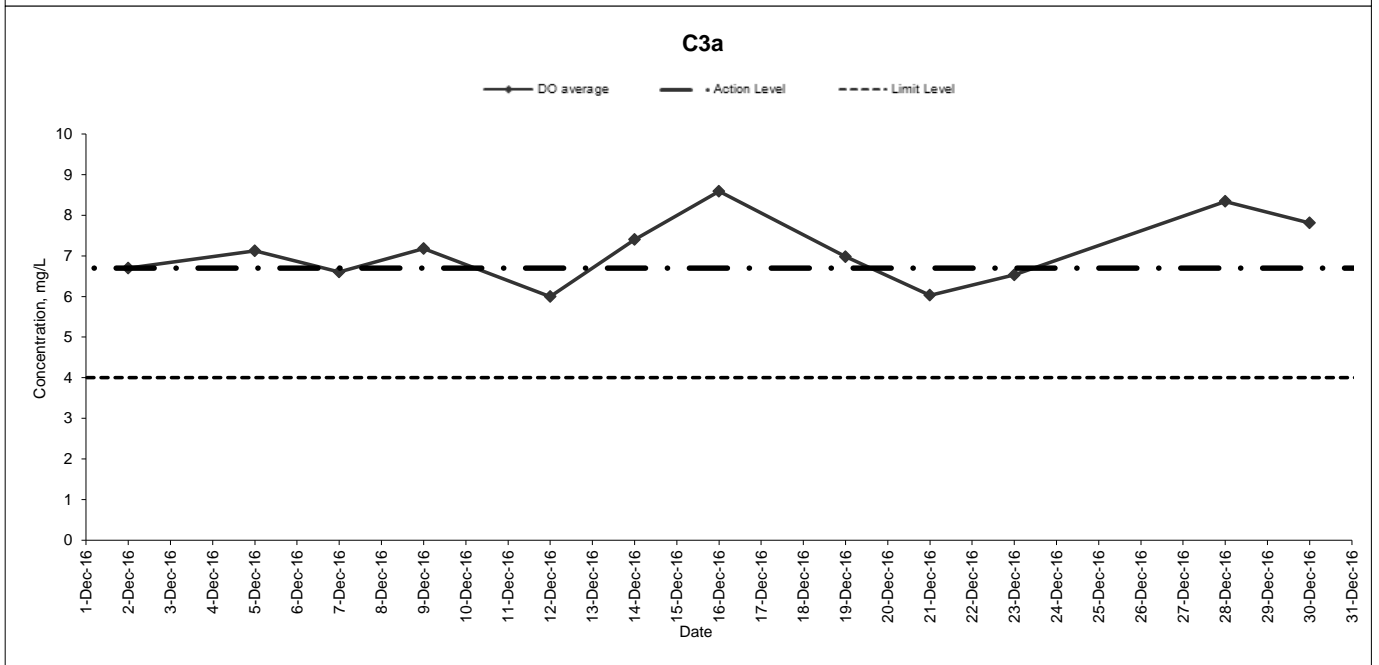
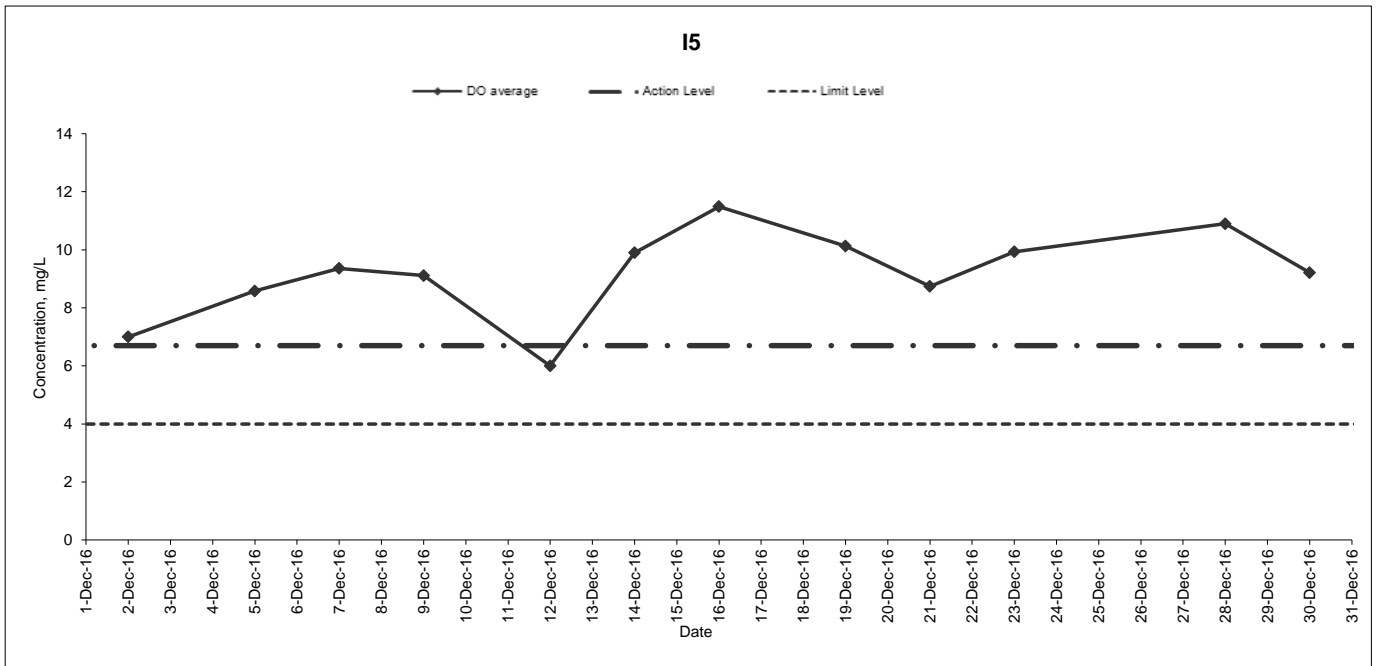
Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:12	<0.5	17.2	17.2	6.9	6.9	8.3	8.3	86.7	86.7	9.8	9.8	<0.1	<0.1	9.0	8.6
			17.2		6.9		8.3		86.7		9.8					
C3b	11:32	<0.5	16.5	16.5	7.0	7.0	8.8	8.8	89.7	89.7	10.4	10.4	<0.1	<0.1	5.8	5.0
			16.5		7.0		8.8		89.7		10.4					
I5	11:46	<0.5	16.7	16.7	7.1	7.1	10.9	10.9	112.2	112.2	5.2	5.2	<0.1	<0.1	5.3	4.7
			16.7		7.1		10.9		112.2		5.2					

Date of Monitoring 12/30/2016 Weather : Cloudy

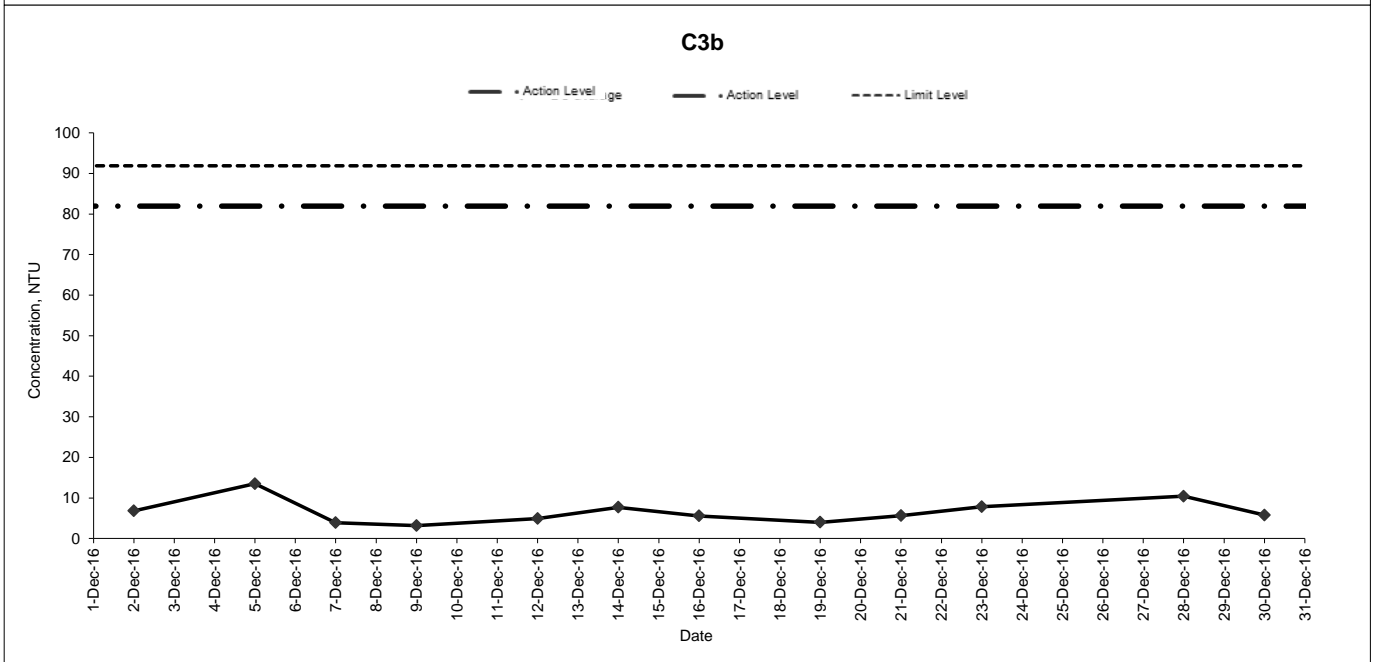
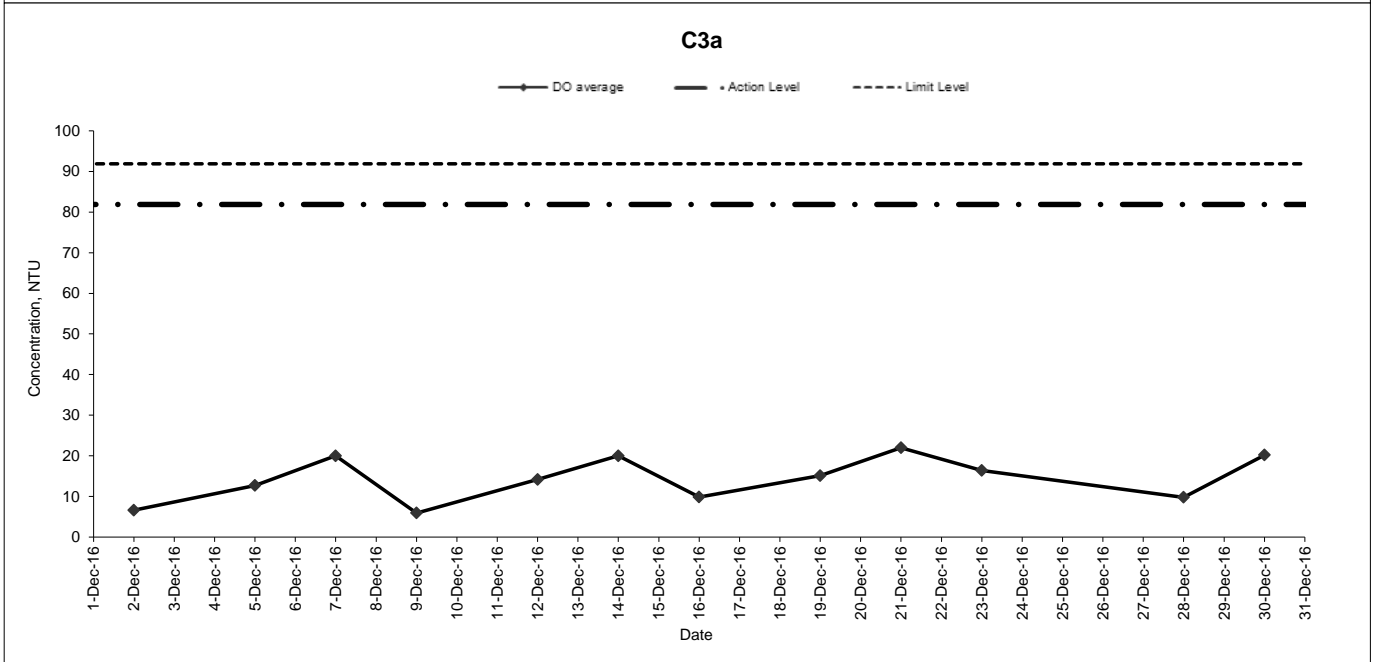
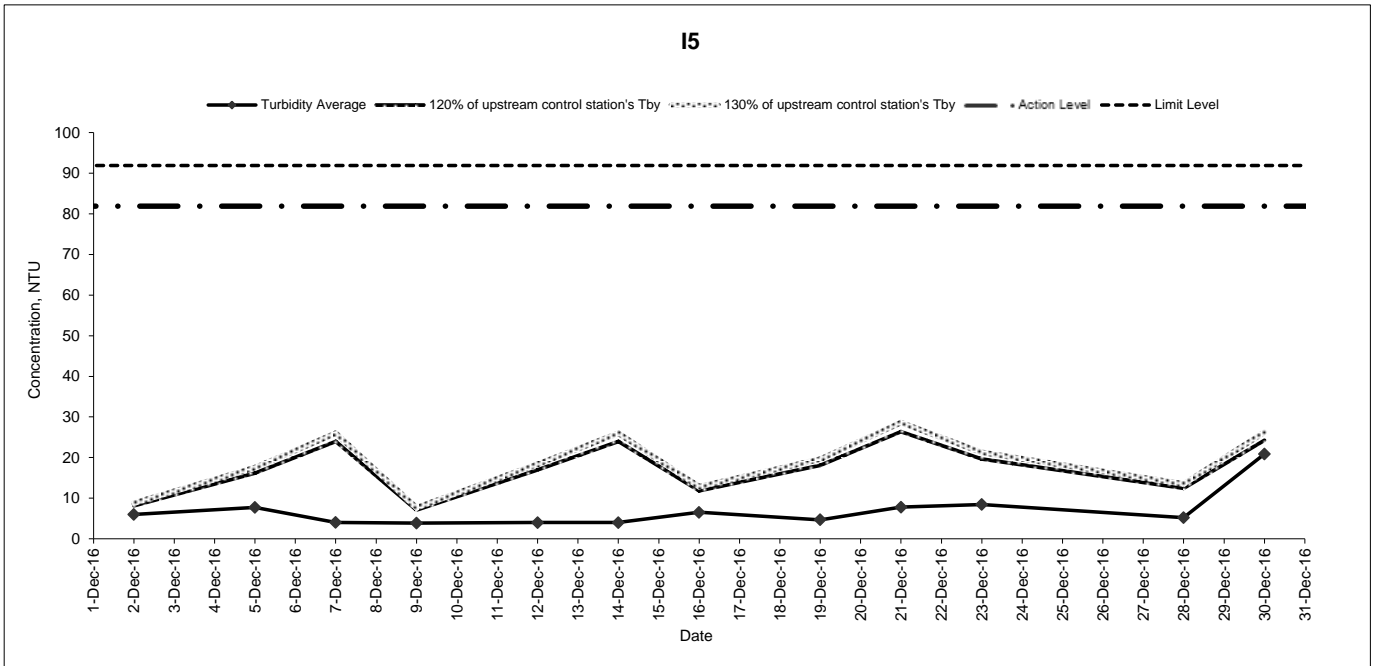
Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:19	<0.5	20.1	20.1	6.5	6.5	7.8	7.8	86.1	86.1	20.2	20.2	<0.1	<0.1	15.0	15.5
			20.1		6.5		7.8		86.1		20.2					
C3b	11:41	<0.5	17.6	17.6	6.7	6.7	8.8	8.8	92.7	92.7	5.8	5.8	<0.1	<0.1	3.6	4.0
			17.6		6.7		8.8		92.7		5.8					
I5	11:52	<0.5	19.5	19.5	6.9	6.9	9.2	9.2	100.4	100.4	20.9	20.9	<0.1	<0.1	15.0	15.0
			19.5		6.9		9.2		100.4		20.9					

NOTE:
 Data in **Bold** denotes exceedance of respective Action Level
 Data in **Bold Underline** denotes exceedance of respective Limit Level

Dissolved Oxygen



Turbidity



Suspended Solid

