

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 3/3/2014 Weather : Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	11:13	<0.5	17.7	17.7	7.2	7.2	8.3	8.3	87.1	87.2	27.8	27.8	<0.1	<0.1	29.0	30.0
			17.7		7.2		8.3		87.2		27.8		<0.1		31.0	
C3b	10:56	<0.5	17.6	17.6	8.3	8.3	6.8	6.8	71.2	71.2	61.6	61.8	<0.1	<0.1	8.0	7.8
			17.6		8.3		6.8		71.2		61.9		<0.1		7.6	
I5	10:45	<0.5	17.5	17.5	8.2	8.2	7.6	7.6	80.0	80.0	56.2	56.2	<0.1	<0.1	16.0	16.0
			17.5		8.2		7.6		80.0		56.1		<0.1		16.0	

Date of Monitoring 5/3/2014 Weather : Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	9:41	<0.5	17.7	17.7	7.4	7.4	8.3	8.3	86.7	86.7	11.0	11.1	<0.1	<0.1	10.0	10.0
			17.7		7.4		8.3		86.7		11.1		<0.1		10.0	
C3b	9:18	<0.5	17.5	17.5	8.0	8.0	8.2	8.2	85.7	85.7	8.7	8.7	<0.1	<0.1	4.0	4.2
			17.4		8.0		8.2		85.7		8.7		<0.1		4.4	
I5	9:25	<0.5	17.4	17.6	7.4	7.4	7.6	7.6	79.9	79.9	11.4	11.5	<0.1	<0.1	6.8	6.9
			17.7		7.4		7.6		79.9		11.5		<0.1		7.0	

Date of Monitoring 7/3/2014 Weather : Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	9:59	<0.5	16.4	16.4	7.6	7.6	7.9	7.9	81.0	81.0	13.6	13.7	<0.1	<0.1	22.0	22.5
			16.4		7.6		7.9		81.0		13.8		<0.1		23.0	
C3b	9:30	<0.5	16.2	16.2	8.0	8.0	7.8	7.8	79.3	79.3	6.4	6.5	<0.1	<0.1	9.2	8.1
			16.2		8.0		7.8		79.3		6.6		<0.1		7.0	
I5	9:41	<0.5	15.8	15.8	7.6	7.6	7.9	7.9	79.3	79.3	11.0	10.6	<0.1	<0.1	4.2	4.7
			15.8		7.6		7.9		79.3		10.1		<0.1		5.2	

Date of Monitoring 10/3/2014 Weather : Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:29	<0.5	14.9	14.9	7.8	7.8	8.5	8.6	84.1	84.7	16.1	16.1	<0.1	<0.1	12.0	15.5
			14.9		7.8		8.6		85.3		16.1		<0.1		19.0	
C3b	10:01	<0.5	15.1	15.1	8.3	8.3	8.7	8.7	86.4	86.4	9.9	9.9	<0.1	<0.1	6.0	6.4
			15.1		8.3		8.7		86.4		9.9		<0.1		6.8	
I5	10:09	<0.5	14.7	14.7	8.1	8.1	7.8	7.8	77.2	76.4	16.4	16.4	<0.1	<0.1	17.0	18.5
			14.7		8.1		7.7		75.6		16.4		<0.1		20.0	

Date of Monitoring 12/3/2014 Weather : Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:24	<0.5	16.8	16.8	7.5	7.5	8.2	8.2	78.1	78.1	8.2	8.2	<0.1	<0.1	9.6	9.8
			16.8		7.5		8.2		78.1		8.2		<0.1		10.0	
C3b	10:01	<0.5	16.9	16.9	7.9	7.9	7.8	7.8	74.2	74.2	7.7	7.7	<0.1	<0.1	6.6	7.0
			16.9		7.9		7.8		74.2		7.7		<0.1		7.4	
I5	10:09	<0.5	16.7	16.7	8.0	8.0	6.6	6.7	62.2	62.5	9.1	9.1	<0.1	<0.1	8.6	9.0
			16.7		8.0		6.7		62.7		9.1		<0.1		9.4	

Date of Monitoring 14/3/2014 Weather : Cloudy

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:23	<0.5	17.6	17.6	7.8	7.8	8.1	8.1	84.5	84.5	15.4	15.4	<0.1	<0.1	6.6	6.6
			17.6		7.8		8.1		84.5		15.4		<0.1		6.6	
C3b	10:01	<0.5	17.4	17.4	8.1	8.1	8.4	8.4	87.6	87.6	33.1	33.1	<0.1	<0.1	22.0	22.0
			17.4		8.1		8.4		87.6		33.1		<0.1		22.0	
I5	10:08	<0.5	17.9	17.9	7.9	7.9	8.0	8.0	84.2	84.2	19.4	19.4	<0.1	<0.1	12.0	12.0
			17.9		7.9		8.0		84.2		19.4		<0.1		12.0	

Date of Monitoring 17/3/2014 Weather : Fine

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	14:21	<0.5	22.1	22.1	7.8	7.8	7.1	7.1	81.8	81.8	7.6	7.6	<0.1	<0.1	5.8	5.8
			22.1		7.8		7.1		81.8		7.6		<0.1		5.8	
C3b	14:00	<0.5	22.3	22.3	8.1	8.1	7.8	7.8	90.2	90.1	11.7	11.7	<0.1	<0.1	6.6	6.2
			22.3		8.1		7.8		89.9		11.7		<0.1		6.6	
I5	14:07	<0.5	22.2	22.2	7.9	7.9	7.5	7.5	85.6	85.6	10.0	10.0	<0.1	<0.1	6.0	6.8
			22.2		7.9		7.5		85.6		10.0		<0.1		7.6	

Date of Monitoring 19/3/2014 Weather : Fine

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:39	<0.5	24.4	24.4	7.8	7.8	7.5	7.5	89.6	89.6	11.8	11.8	<0.1	<0.1	9.2	8.4
			24.4		7.8		7.5		89.6		11.8		<0.1		7.6	
C3b	10:15	<0.5	23.9	23.9	8.1	8.1	6.6	6.6	78.8	78.8	10.6	10.6	<0.1	<0.1	4.3	4.6
			23.9		8.1		6.6		78.8		10.6		<0.1		4.8	
I5	10:23	<0.5	23.4	23.4	7.9	7.9	7.2	7.2	84.2	84.2	9.4	9.4	<0.1	<0.1	8.4	7.5
			23.4		7.9		7.2		84.2		9.4		<0.1		6.6	

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

Date of Monitoring 21/3/2014 Weather : Fine

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:31	<0.5	18.2	18.2	7.8	7.8	7.6	7.6	80.1	80.1	43.4	43.4	<0.1	<0.1	8.2	8.4
			18.2		7.8		7.6		80.1		43.4		<0.1		8.6	
C3b	10:15	<0.5	18.0	18.0	8.1	8.1	8.4	8.4	88.6	88.6	51.2	51.2	<0.1	<0.1	13.0	13.0
			18.0		8.1		8.4		88.6		51.2		<0.1		13.0	
I5	10:06	<0.5	17.8	17.8	7.9	7.9	7.6	7.6	79.8	79.8	49.7	49.7	<0.1	<0.1	11.0	9.9
			17.8		7.9		7.6		79.8		49.7		<0.1		8.8	

Date of Monitoring 24/3/2014 Weather : Fine

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:34	<0.5	21.0	21.0	7.7	7.7	6.4	6.4	71.5	71.5	15.4	15.4	<0.1	<0.1	3.6	4.5
			21.0		7.7		6.4		71.5		15.4		<0.1		5.3	
C3b	10:11	<0.5	21.0	21.0	7.8	7.8	7.7	7.7	86.3	86.3	14.8	14.8	<0.1	<0.1	4.1	4.1
			21.0		7.8		7.7		86.3		14.8		<0.1		4.0	
I5	10:03	<0.5	20.3	20.3	7.9	7.9	8.6	8.6	95.3	95.3	12.3	12.3	<0.1	<0.1	13.0	11.3
			20.3		7.9		8.6		95.3		12.3		<0.1		9.6	

Date of Monitoring 26/3/2014 Weather : Fine

Monitoring Location	Time	Water Depth (m)	Temperature (oC)		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	10:39	<0.5	24.3	24.3	7.8	7.8	6.9	6.9	82.9	82.9	13.5	13.5	<0.1	<0.1	4.4	4.6
			24.3		7.8		6.9		82.9		13.5		<0.1		4.8	
C3b	10:21	<0.5	24.0	24.0	8.1	8.1	6.6	6.6	78.1	78.1	9.8	9.8	<0.1	<0.1	3.2	4.9
			24.0		8.1		6.6		78.1		9.8		<0.1		6.6	
I5	10:09	<0.5	24.4	24.4	7.9	7.9	6.7	6.7	80.4	80.4	14.4	14.4	<0.1	<0.1	13.0	13.0
			24.4		7.9		6.7		80.4		14.4		<0.1		13.0	

Date of Monitoring 28/3/2014 Weather : Cloudy

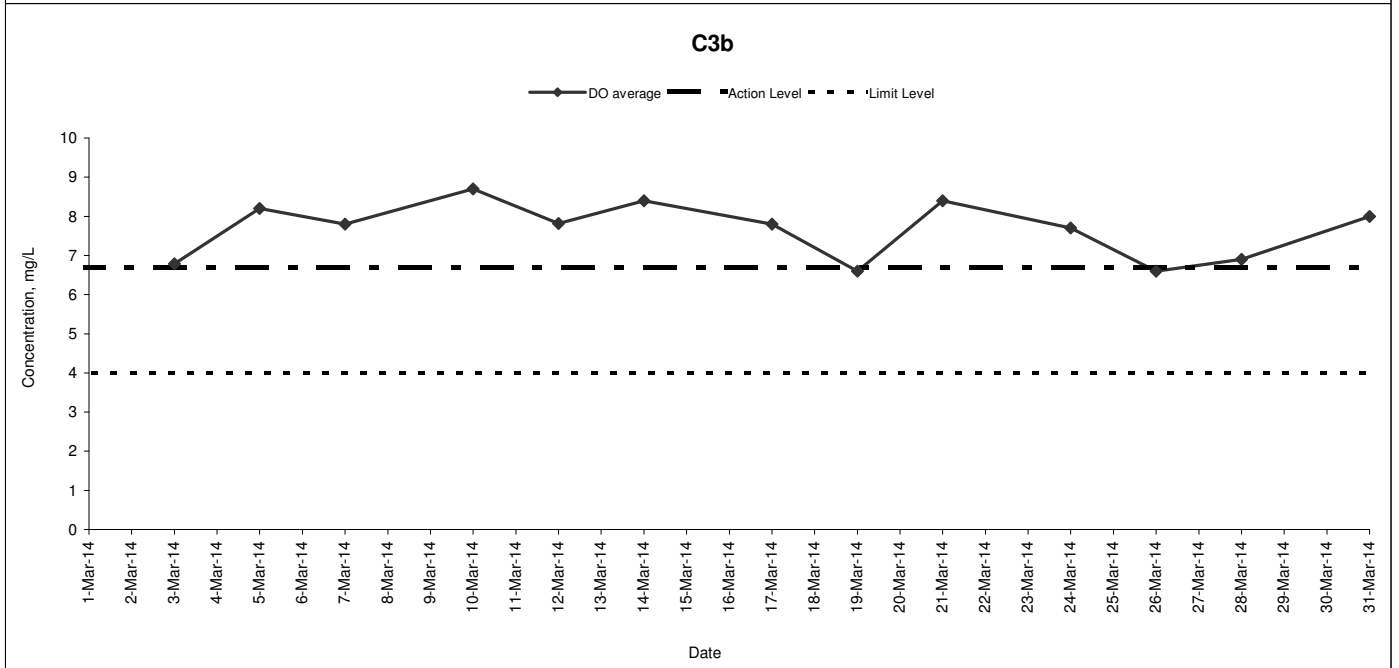
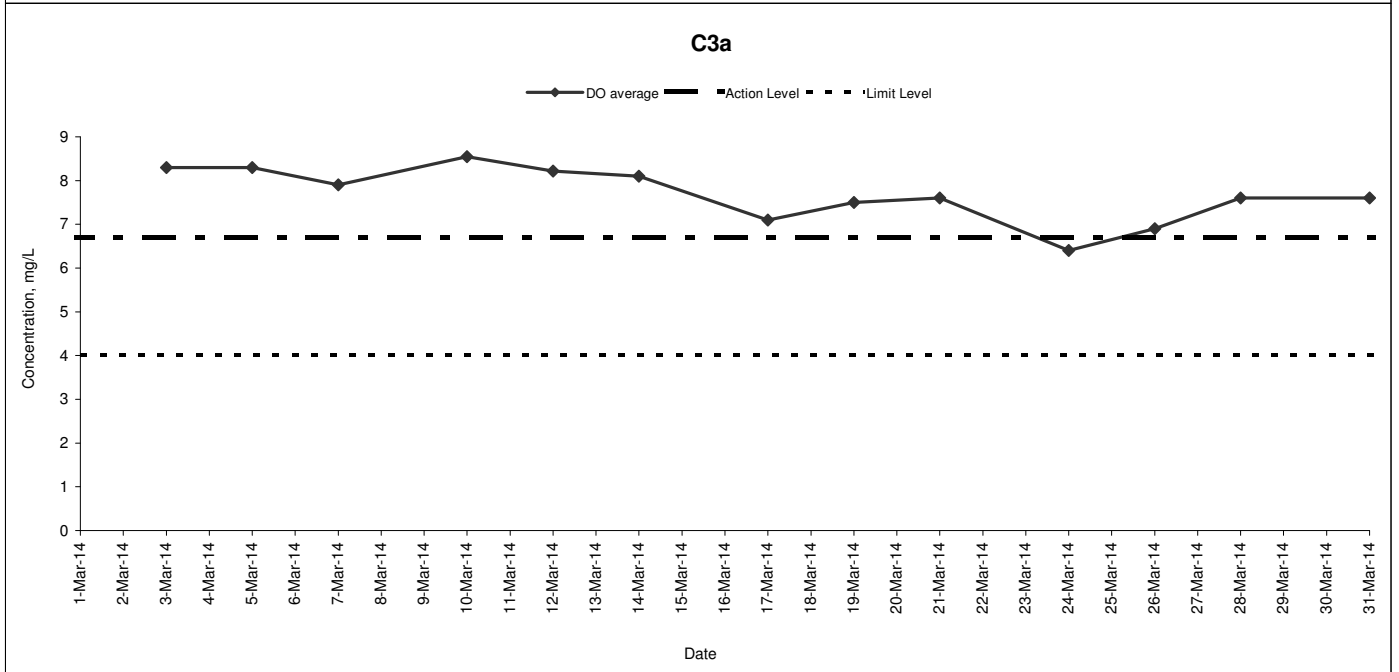
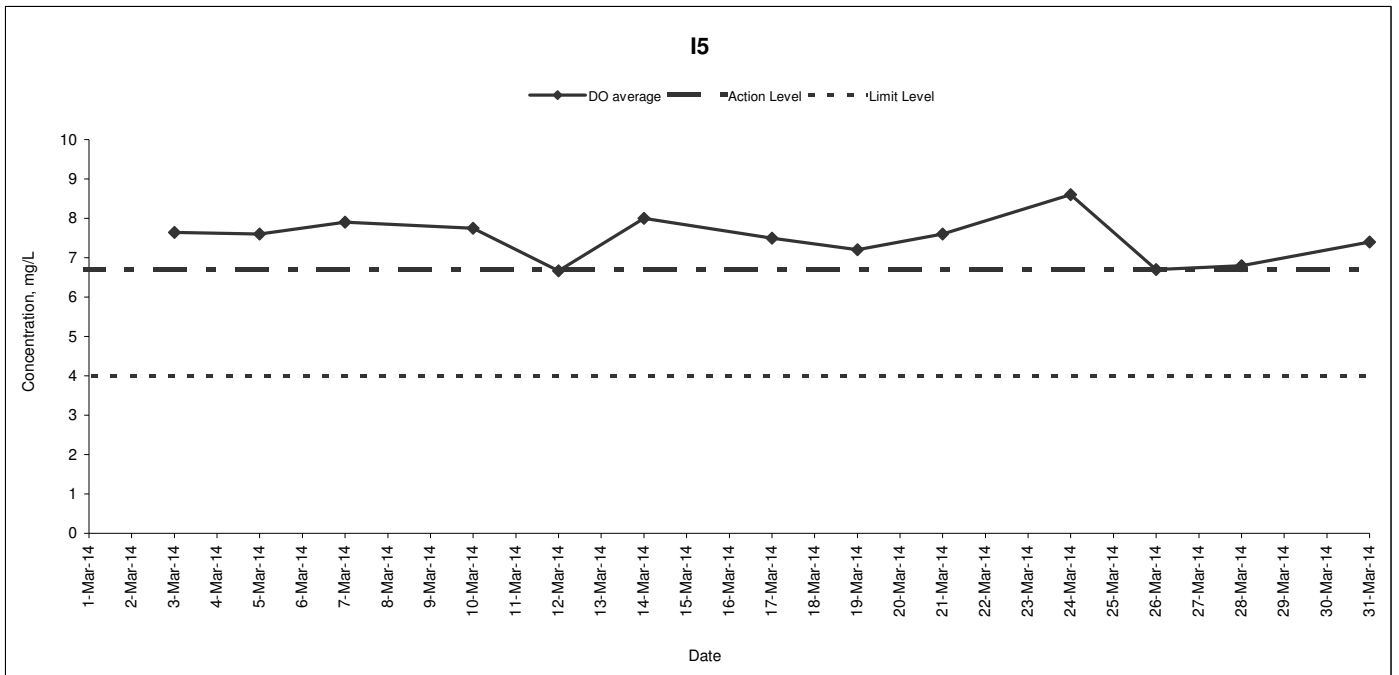
Monitoring Location	Time	Water Depth (m)	Temperature (oC)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:47	<0.5	24.2	24.2	7.9	7.9	7.6	7.6	90.5	90.5	13.2	13.2	<0.1	<0.1	22.0	22.0
			24.2		7.9		7.6		90.5		13.2		<0.1		22.0	
C3b	10:01	<0.5	22.8	22.8	8.1	8.1	6.9	6.9	80.7	80.7	4.9	4.9	<0.1	<0.1	4.7	4.5
			22.8		8.1		6.9		80.7		4.9		<0.1		4.3	
I5	10:19	<0.5	23.4	23.4	7.9	7.9	6.8	6.8	79.5	79.5	13.3	13.3	<0.1	<0.1	10.0	9.7
			23.4		7.9		6.8		79.5		13.3		<0.1		9.4	

Date of Monitoring 31/3/2014 Weather : Rainy

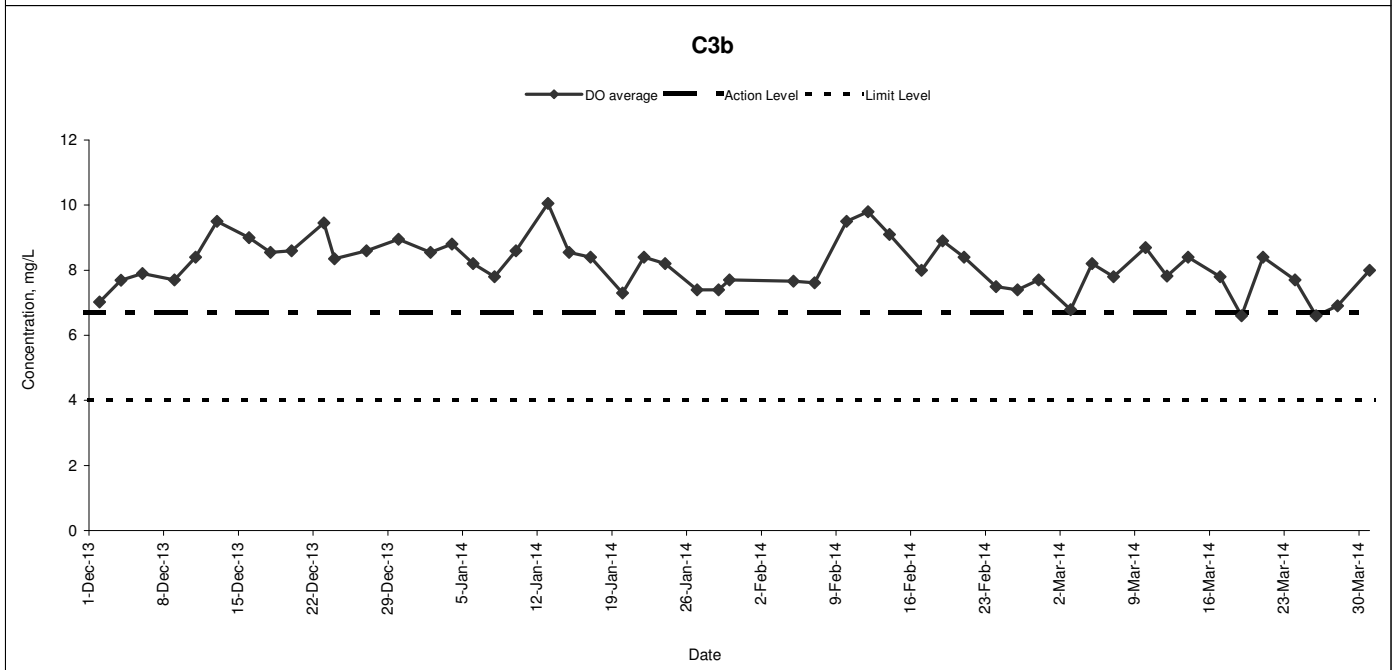
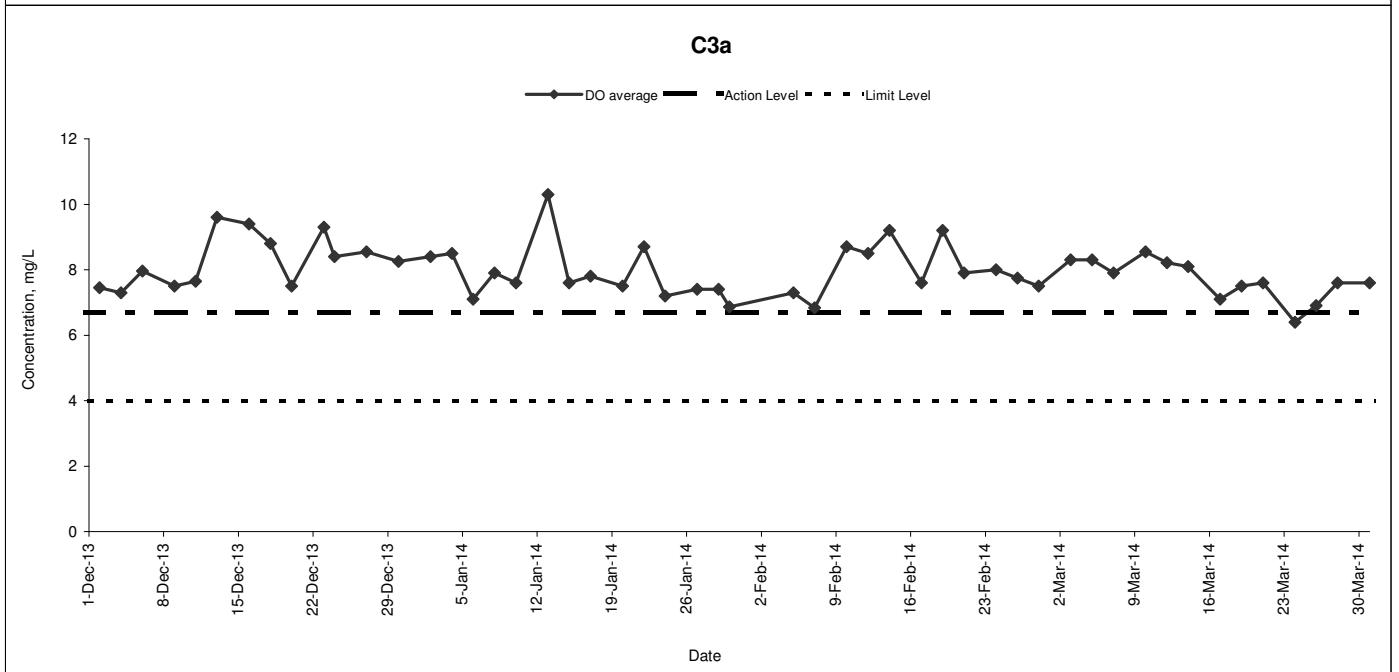
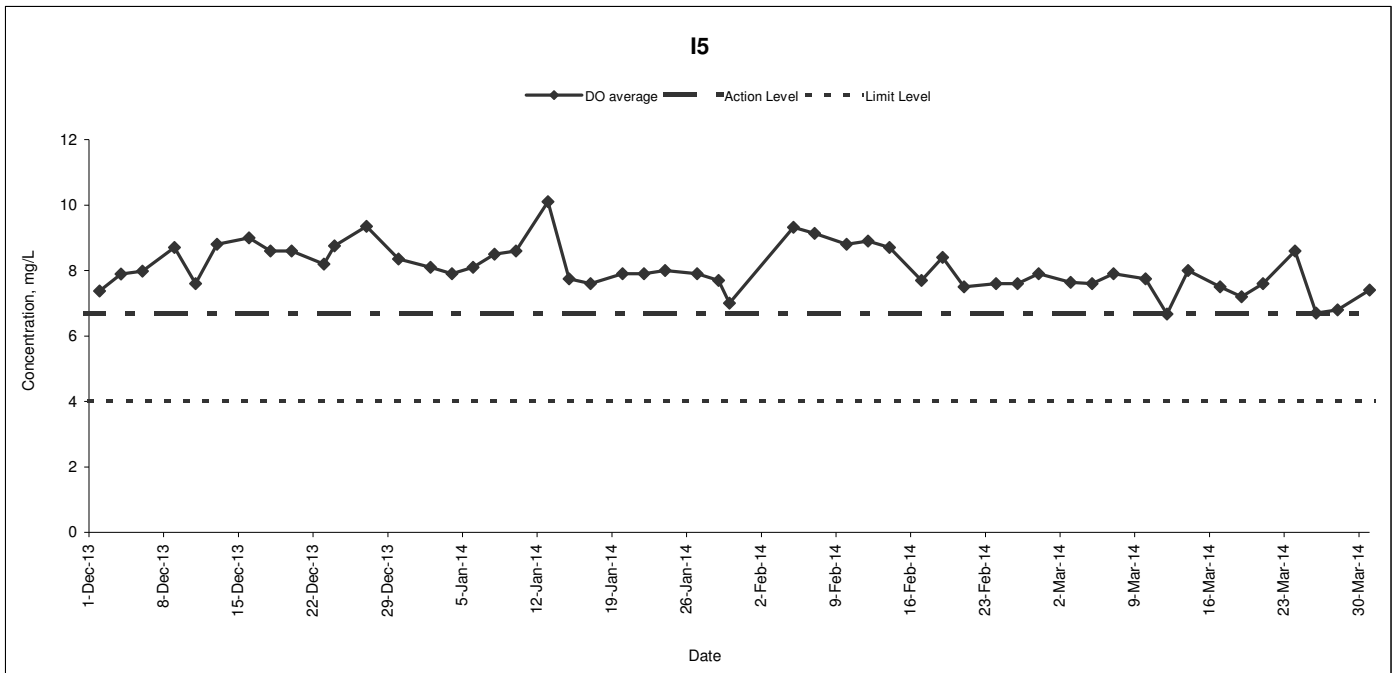
Monitoring Location	Time	Water Depth (m)	Temperature (oC)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:31	<0.5	19.6	19.6	7.9	7.9	7.6	7.6	83.3	83.3	87.7	87.7	<0.1	<0.1	71.0	72.0
			19.6		7.9		7.6		83.3		87.7		<0.1		73.0	
C3b	11:01	<0.5	19.5	19.5	7.9	7.9	8.0	8.0	87.4	87.4	90.3	90.3	<0.1	<0.1	77.0	75.0
			19.5		7.9		8.0		87.4		90.3		<0.1		73.0	
I5	11:09	<0.5	19.3	19.3	7.3	7.3	7.4	7.4	80.5	80.5	86.7	86.7	<0.1	<0.1	73.0	72.5
			19.3		7.3		7.4		80.5		86.7		<0.1		72.0	

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

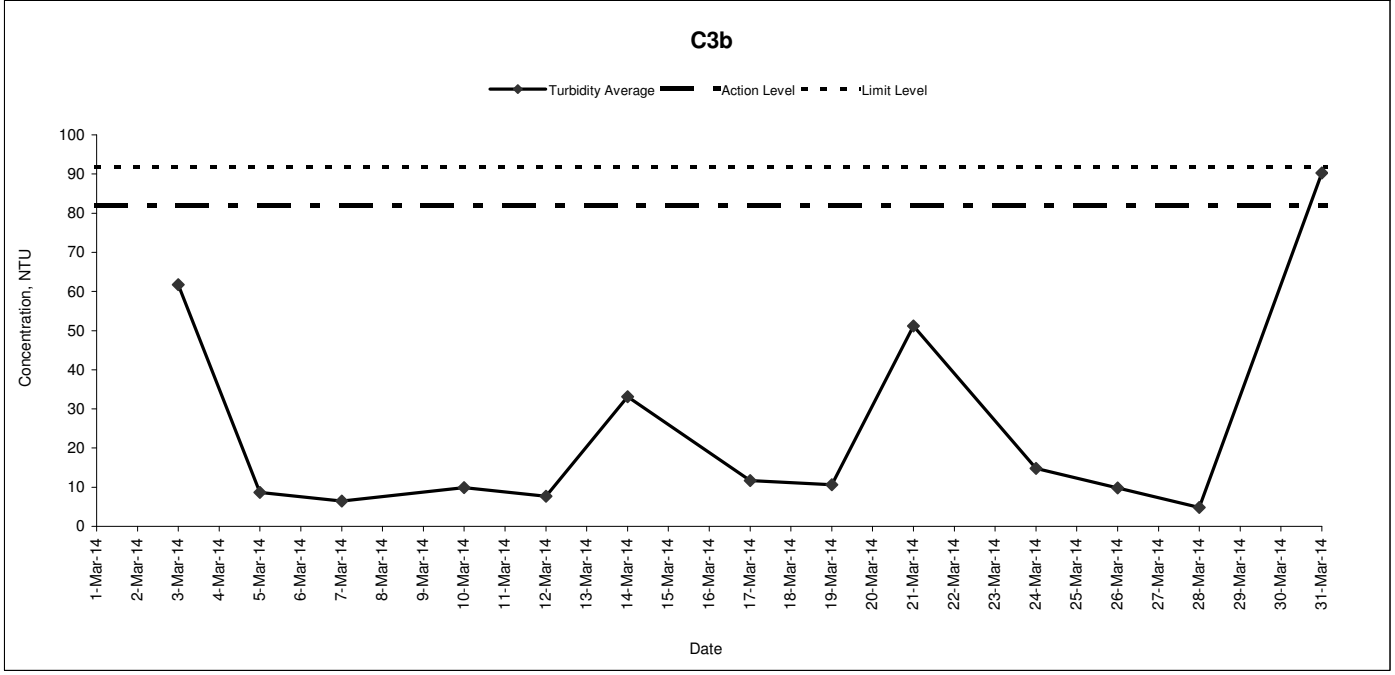
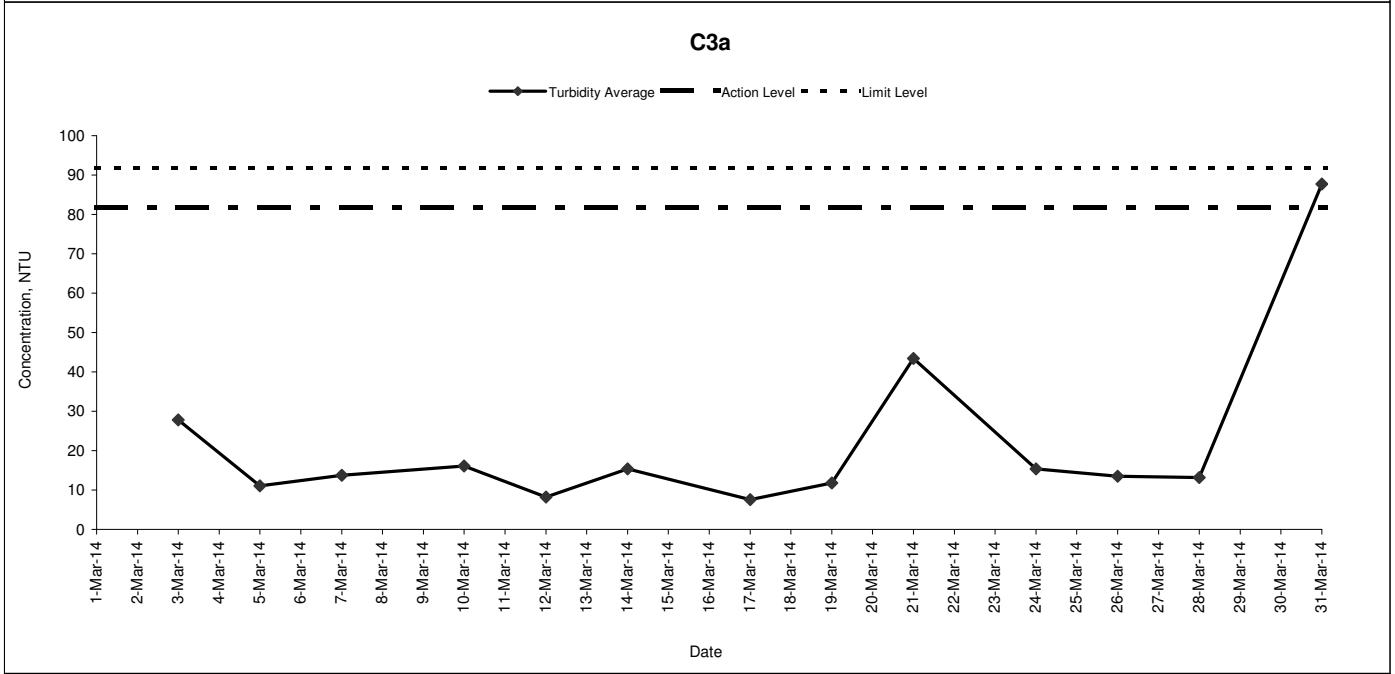
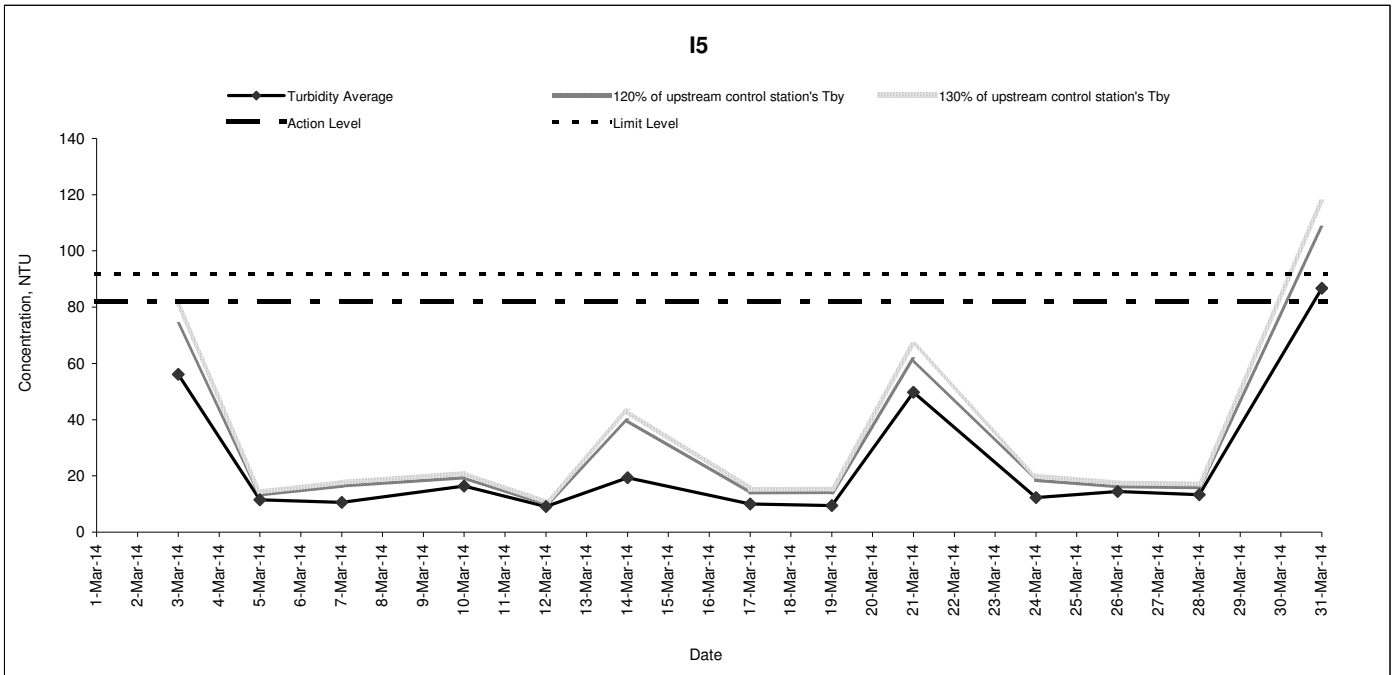
Dissolved Oxygen



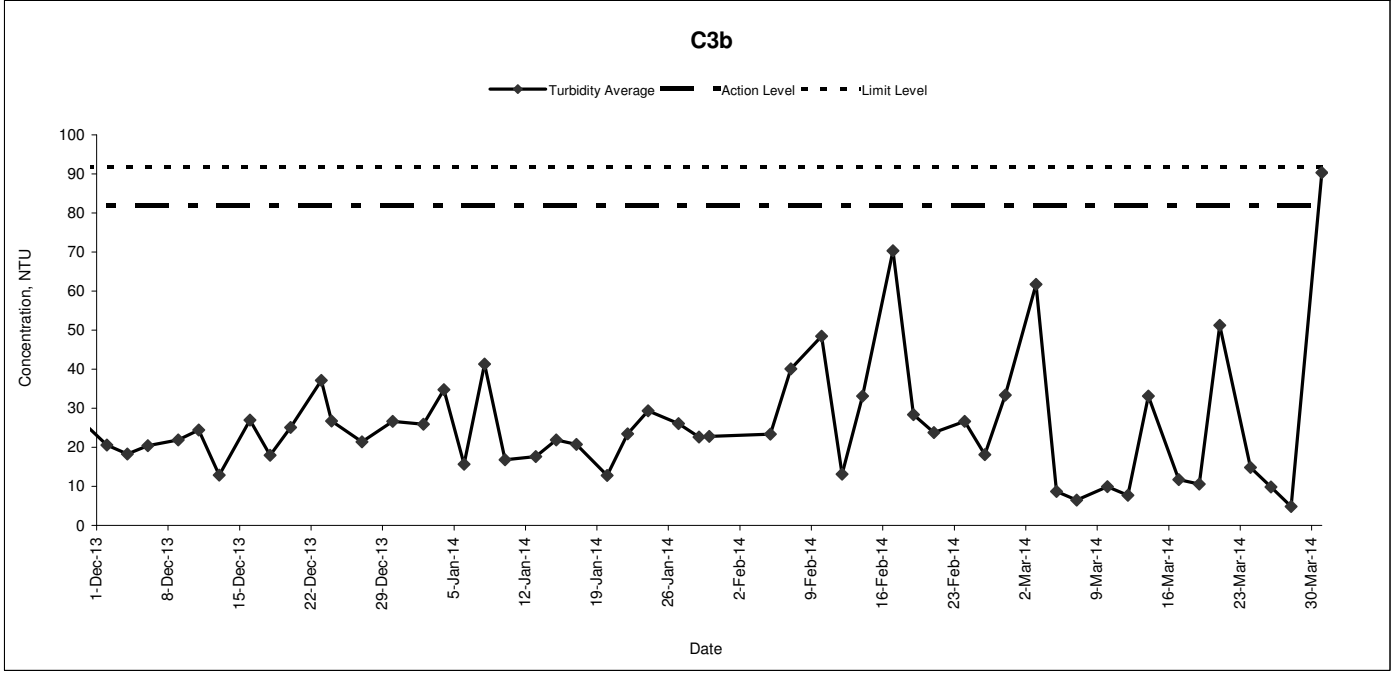
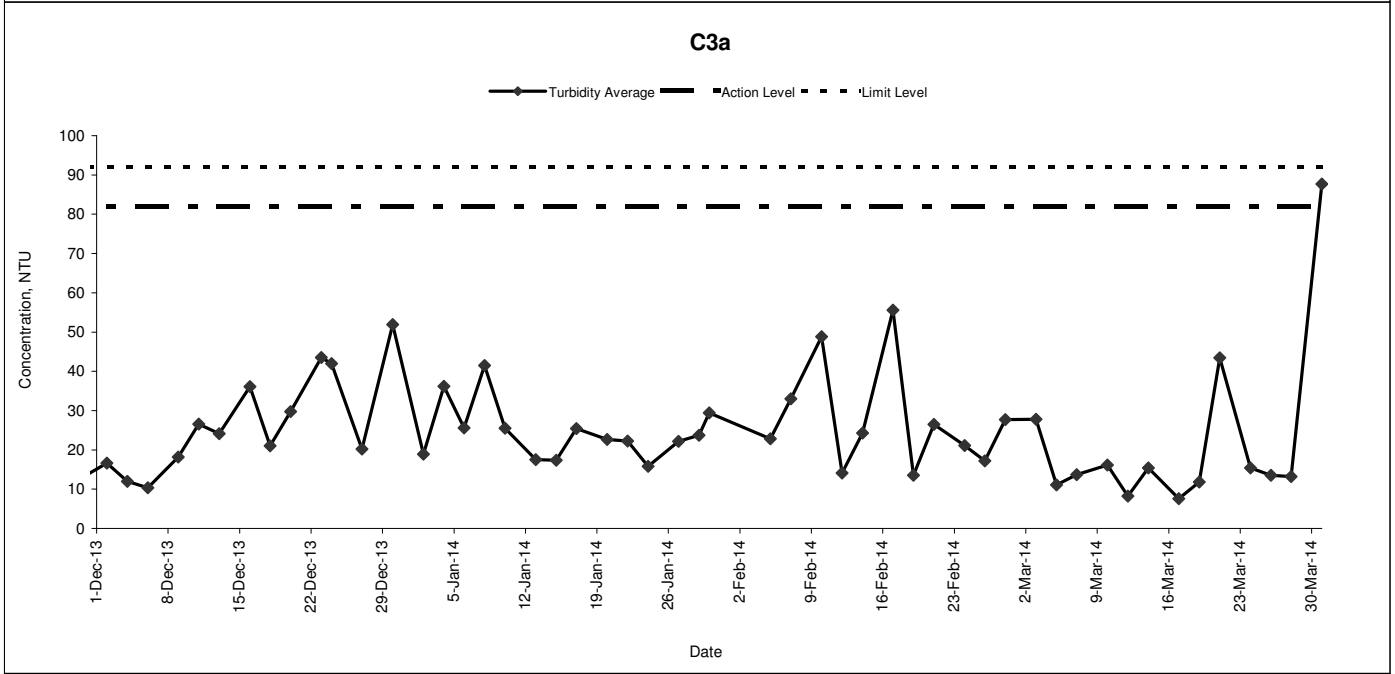
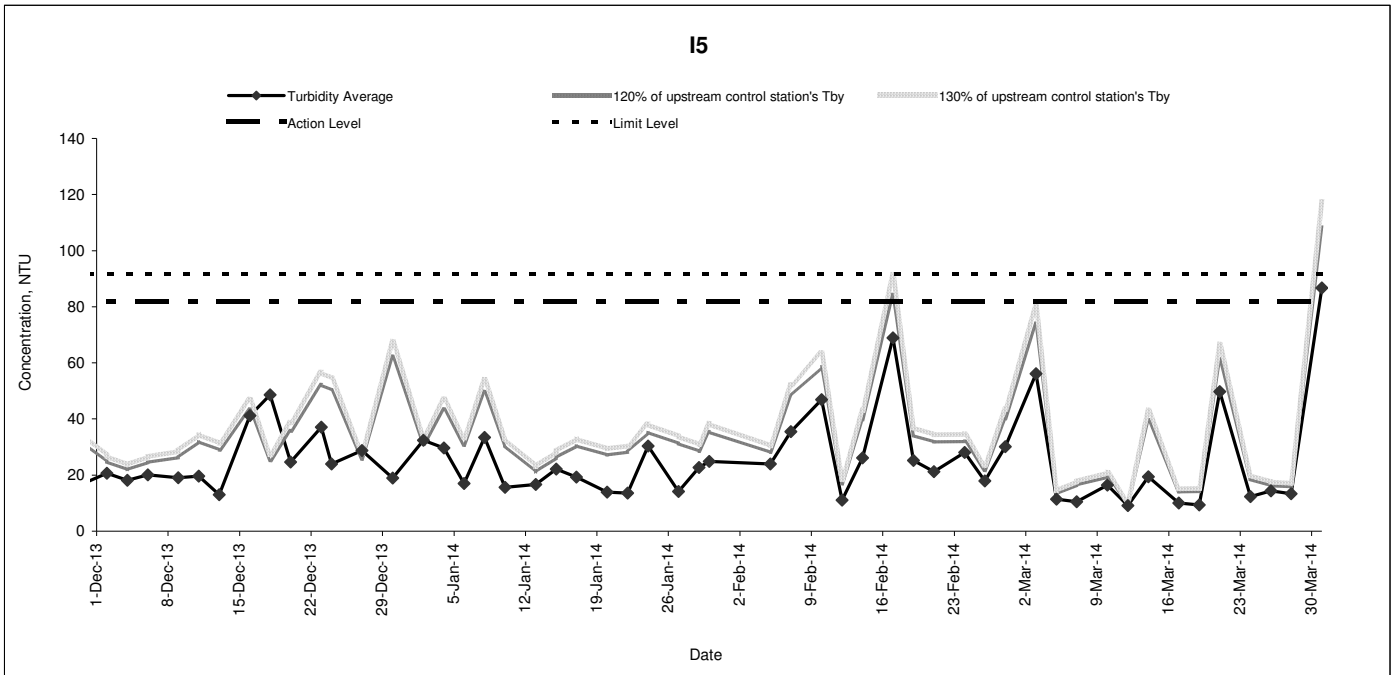
Dissolved Oxygen (December 2013 - March 2014)



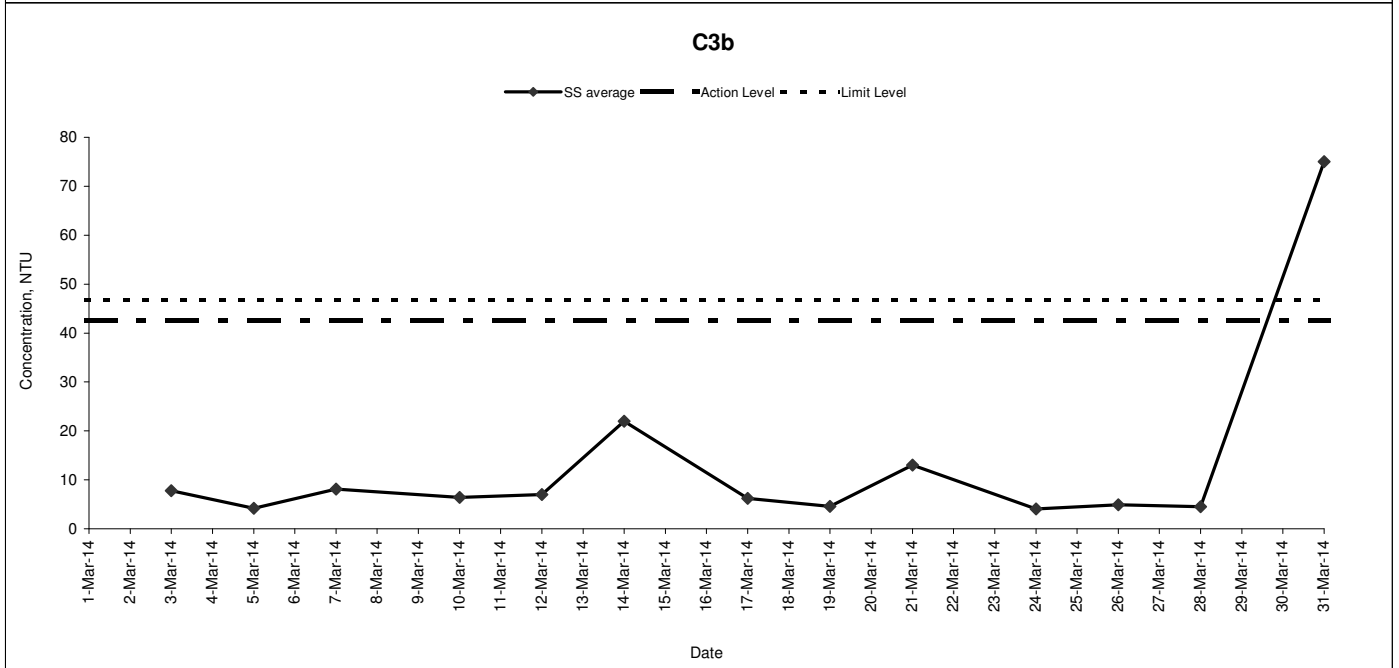
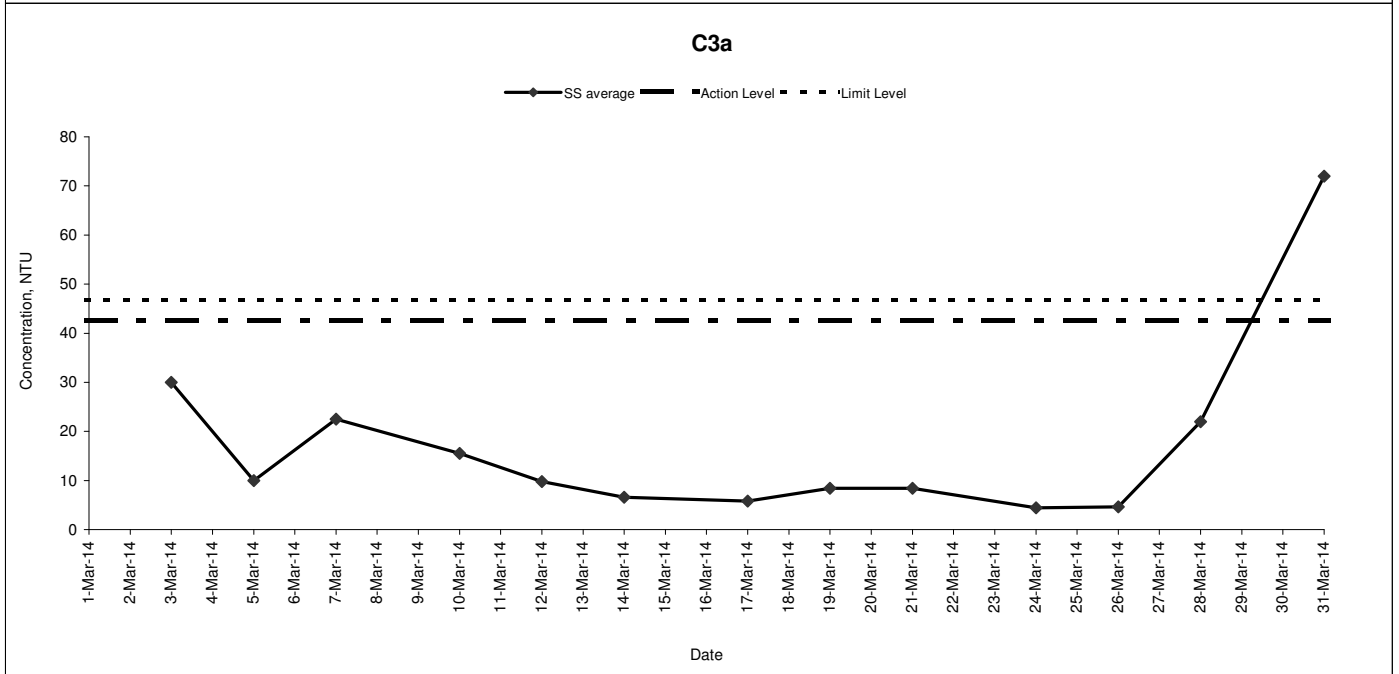
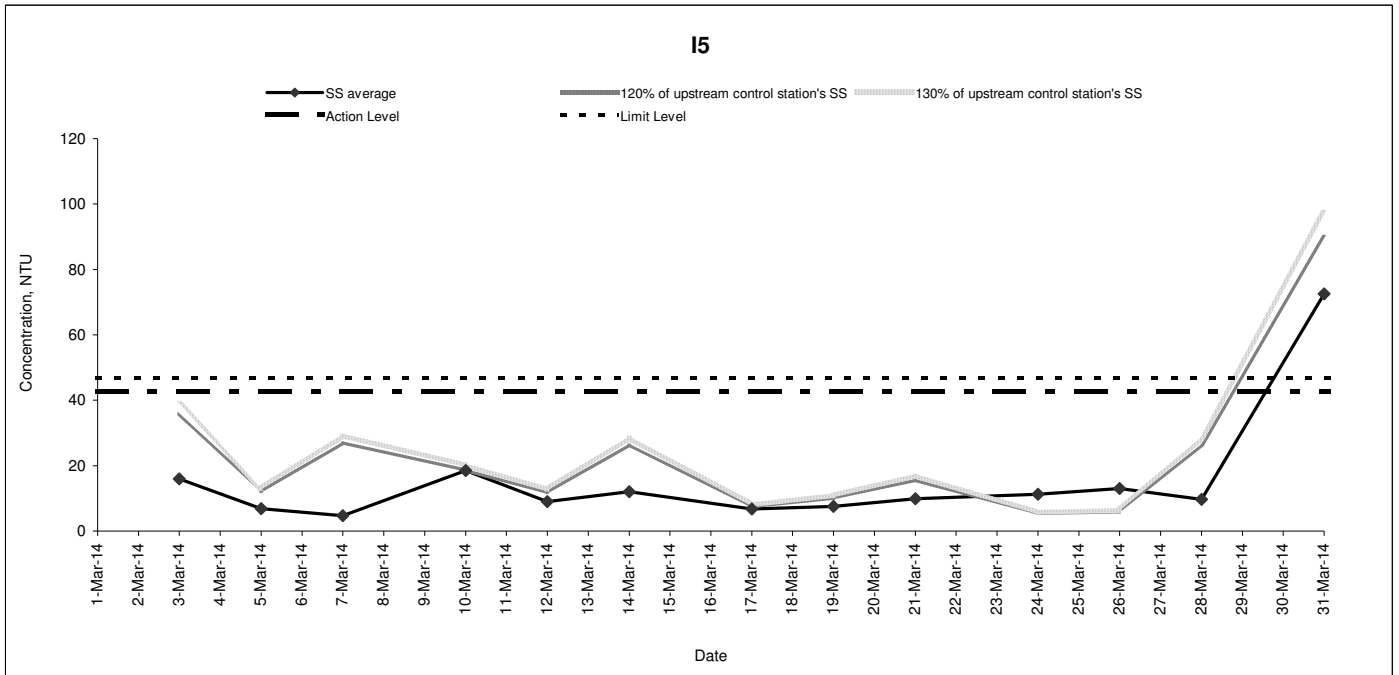
Turbidity



Turbidity (December 2013 - March 2014)



Suspended Solid



Suspended Solid (December 2013 - March 2014)

