

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 1/3/2017 Weather : Sunny

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	11:23	<0.5	22.3	22.3	6.3	6.3	7.1	7.1	82.1	82.1	17.0	17.0	<0.1	<0.1	12.0	12.5
			22.3		6.3		7.1		82.1		17.0		<0.1		13.0	
C3b	11:43	<0.5	20.8	20.8	6.7	6.7	7.6	7.6	84.8	84.8	5.9	5.9	<0.1	<0.1	3.1	3.3
			20.8		6.7		7.6		84.8		5.9		<0.1		3.4	
I5	11:55	<0.5	22.5	22.5	6.9	6.9	9.5	9.5	109.5	109.5	4.8	4.8	<0.1	<0.1	<2.5	<2.5
			22.5		6.9		9.5		109.5		4.8		<0.1		<2.5	

Date of Monitoring 1/5/2017 Weather : Sunny

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	11:14	<0.5	22.8	22.8	6.4	6.4	7.6	7.6	88.5	88.5	17.2	17.2	<0.1	<0.1	13.0	12.5
			22.8		6.4		7.6		88.5		17.2		<0.1		12.0	
C3b	11:34	<0.5	21.5	21.5	6.6	6.6	7.7	7.7	86.7	86.7	8.9	8.9	<0.1	<0.1	6.4	6.4
			21.5		6.6		7.7		86.7		8.9		<0.1		6.3	
I5	11:48	<0.5	23.0	23.0	6.8	6.8	8.9	8.9	104.2	104.2	5.8	5.8	<0.1	<0.1	5.1	4.6
			23.0		6.8		8.9		104.2		5.8		<0.1		4.1	

Date of Monitoring 1/7/2017 Weather : Sunny

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	9:13	<0.5	20.9	20.9	6.2	6.2	5.8	5.8	64.5	64.5	16.7	16.7	<0.1	<0.1	13.0	11.5
			20.9		6.2		5.8		64.5		16.7		<0.1		10.0	
C3b	9:36	<0.5	20.6	20.6	6.6	6.6	7.4	7.4	82.2	82.2	16.7	16.7	<0.1	<0.1	9.8	9.3
			20.6		6.6		7.4		82.2		16.7		<0.1		8.8	
I5	9:49	<0.5	20.6	20.6	6.8	6.8	7.1	7.1	78.9	78.9	5.1	5.1	<0.1	<0.1	<2.5	<2.5
			20.6		6.8		7.1		78.9		5.1		<0.1		5.1	

Date of Monitoring 1/9/2017 Weather : Sunny

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	11:16	<0.5	22.1	22.1	6.4	6.4	7.4	7.4	85.3	85.3	16.5	16.5	<0.1	<0.1	6.3	6.2
			22.1		6.4		7.4		85.3		16.5		<0.1		6.0	
C3b	11:41	<0.5	21.2	21.2	6.9	6.9	7.6	7.6	85.3	85.3	29.0	29.0	<0.1	<0.1	16.0	17.0
			21.2		6.9		7.6		85.3		29.0		<0.1		18.0	
I5	11:54	<0.5	22.4	22.4	7.0	7.0	8.6	8.6	99.6	99.6	8.0	8.0	<0.1	<0.1	5.1	5.1
			22.4		7.0		8.6		99.6		8.0		<0.1		5.0	

Date of Monitoring 1/11/2017 Weather : Sunny

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	11:11	<0.5	21.6	21.6	7.0	7.0	7.4	7.4	83.9	83.9	11.5	11.5	<0.1	<0.1	8.3	8.6
			21.6		7.0		7.4		83.9		11.5		<0.1		8.8	
C3b	11:36	<0.5	20.7	20.7	6.9	6.9	7.6	7.6	85.2	85.2	73.2	73.2	<0.1	<0.1	38.0	38.5
			20.7		6.9		7.6		85.2		73.2		<0.1		39.0	
I5	11:51	<0.5	21.6	21.6	6.9	6.9	8.6	8.6	97.2	97.2	29.7	29.7	<0.1	<0.1	15.0	16.0
			21.6		6.9		8.6		97.2		29.7		<0.1		17.0	

Date of Monitoring 1/13/2017 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	11:05	<0.5	17.7	17.7	6.3	6.3	7.6	7.6	79.4	79.4	9.9	9.9	<0.1	<0.1	4.7	5.6
			17.7		6.3		7.6		79.4		9.9		<0.1		6.4	
C3b	11:28	<0.5	17.6	17.6	6.7	6.7	7.9	7.9	82.3	82.3	9.6	9.6	<0.1	<0.1	13.0	13.5
			17.6		6.7		7.9		82.3		9.6		<0.1		14.0	
I5	11:42	<0.5	17.4	17.4	7.0	7.0	7.5	7.5	78.1	78.1	7.2	7.2	<0.1	<0.1	2.7	2.9
			17.4		7.0		7.5		78.1		7.2		<0.1		3.0	

Date of Monitoring 1/16/2017 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	11:03	<0.5	17.5	17.5	6.3	6.3	7.0	7.0	73.5	73.5	11.6	11.6	<0.1	<0.1	2.6	2.6
			17.5		6.3		7.0		73.5		11.6		<0.1		2.5	
C3b	11:26	<0.5	17.3	17.3	6.7	6.7	7.9	7.9	84.9	84.9	10.9	10.9	<0.1	<0.1	6.4	6.1
			17.3		6.7		7.9		84.9		10.9	</td				

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	11:10	<0.5	19.6 19.6	19.6 6.3	6.3 6.3	6.3 6.9	6.9 75.5	6.9 75.5	75.5 12.7	75.5 12.7	12.7 <0.1	12.7 <0.1	<0.1 <0.1	<0.1 8.6	7.0 7.8	7.8
C3b	11:32	<0.5	18.3 18.3	18.3 6.7	6.7 6.7	6.7 8.2	8.2 87.4	8.2 87.4	87.4 10.5	87.4 10.5	10.5 <0.1	10.5 <0.1	<0.1 11.0	<0.1 7.4	9.2	9.2
I5	11:43	<0.5	18.8 18.8	18.8 7.0	7.0 7.0	7.0 8.4	8.4 90.4	8.4 90.4	90.4 7.0	90.4 7.0	7.0 <0.1	7.0 <0.1	<0.1 4.5	<0.1 3.1	3.8	3.8

Date of Monitoring 1/25/2017

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	11:07	<0.5	20.9 20.9	20.9 6.4	6.4 6.4	6.4 7.1	7.1 79.2	7.1 79.2	79.2 13.1	79.2 13.1	13.1 <0.1	13.1 <0.1	<0.1 6.9	<0.1 6.9	6.9 6.9	6.9
C3b	11:29	<0.5	19.7 19.7	19.7 6.8	6.8 6.8	6.8 8.1	8.1 88.6	8.1 88.6	88.6 7.5	88.6 7.5	7.5 <0.1	7.5 <0.1	<0.1 3.7	<0.1 3.9	3.8	3.8
I5	11:43	<0.5	20.5 20.5	20.5 7.0	7.0 7.0	7.0 8.2	8.2 90.7	8.2 90.7	90.7 6.9	90.7 6.9	6.9 <0.1	6.9 <0.1	<0.1 3.0	<0.1 3.4	3.2	3.2

Date of Monitoring 1/27/2017

Weather : Sunny

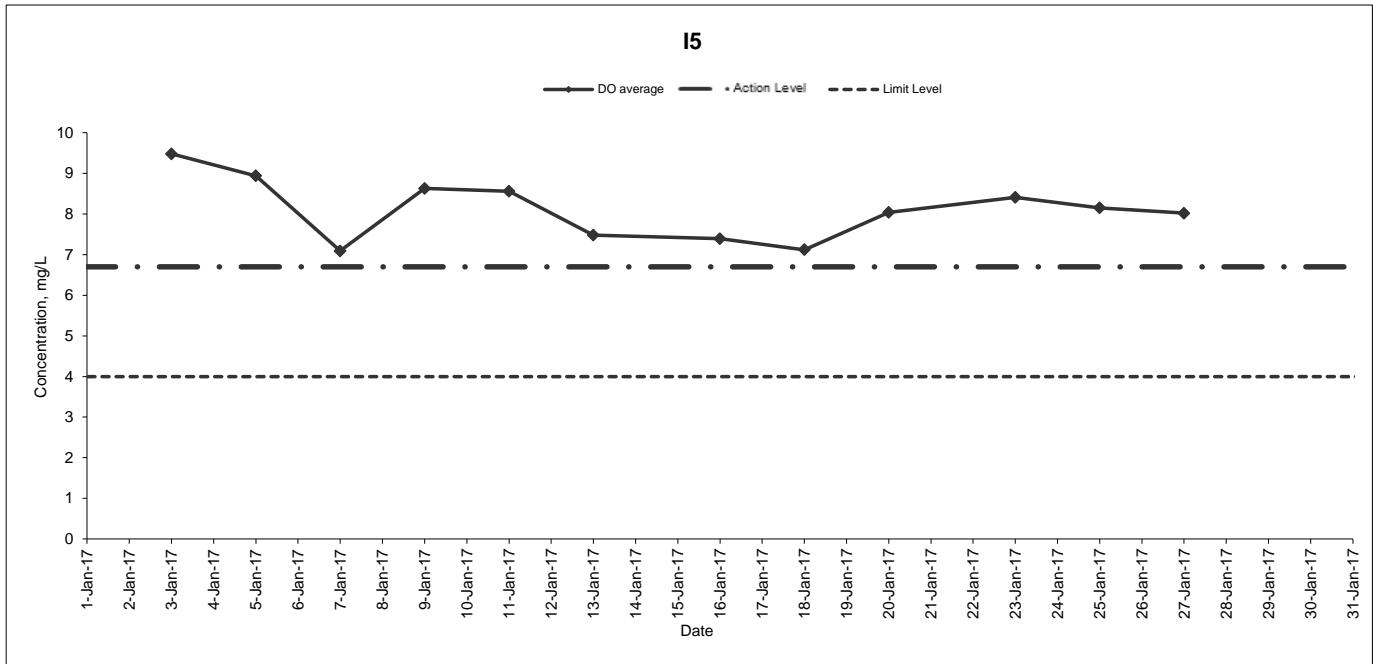
Monitoring Location	Time	Water Depth (m)	Temperature (°C)		pH		DO (mg/L)		DO (% saturation)		Turbidity (NTU)		Salinity (g/L)		SS (mg/L)	
			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:06	<0.5	19.9 19.9	19.9 6.4	6.4 6.4	6.4 7.9	7.9 87.1	7.9 87.1	87.1 15.0	87.1 15.0	15.0 <0.1	15.0 <0.1	<0.1 14.0	<0.1 15.0	14.5	14.5
C3b	11:32	<0.5	18.9 18.9	18.9 6.7	6.7 6.7	6.7 7.9	7.9 85.2	7.9 85.2	85.2 9.2	85.2 9.2	9.2 <0.1	9.2 <0.1	<0.1 4.6	<0.1 4.0	4.3	4.3
I5	11:47	<0.5	19.6 19.6	19.6 6.9	6.9 6.9	6.9 8.0	8.0 87.7	8.0 87.7	87.7 5.7	87.7 5.7	5.7 <0.1	5.7 <0.1	<0.1 <2.5	<0.1 2.8	2.8	2.8

NOTE:

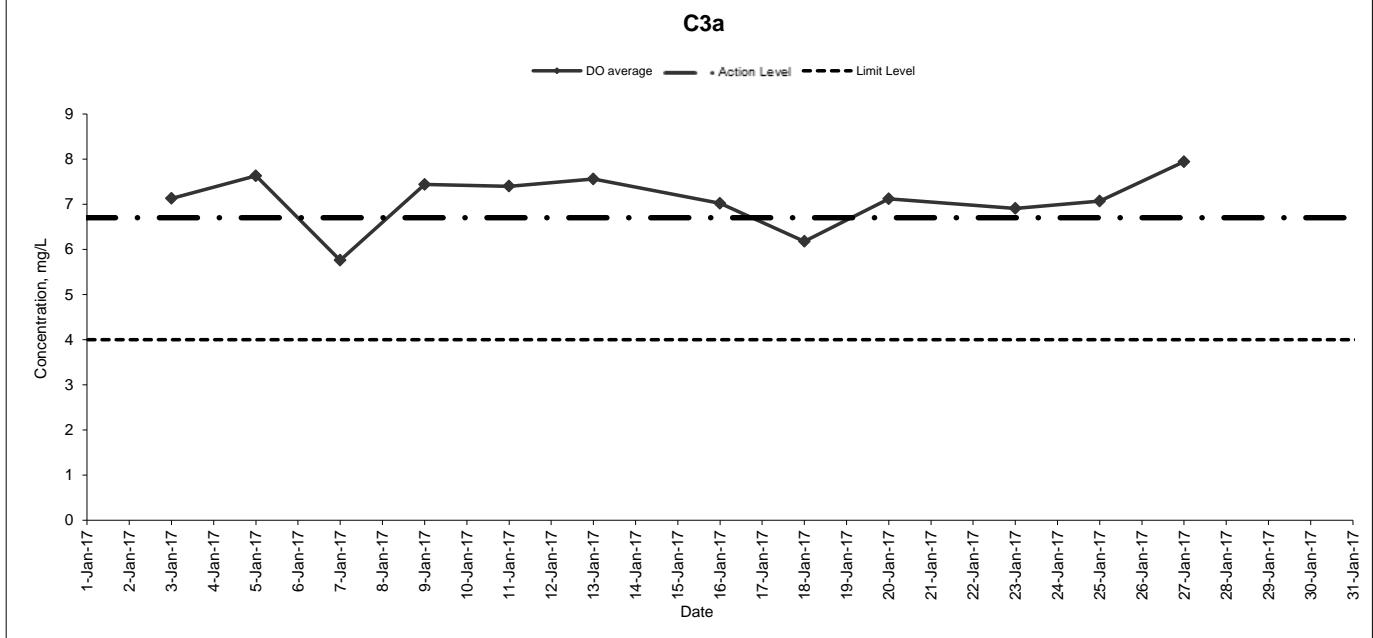
Data in **Bold** denotes exceedance of respective Action Level
 Data in **Bold Underline** denotes exceedance of respective Limit Level

Dissolved Oxygen

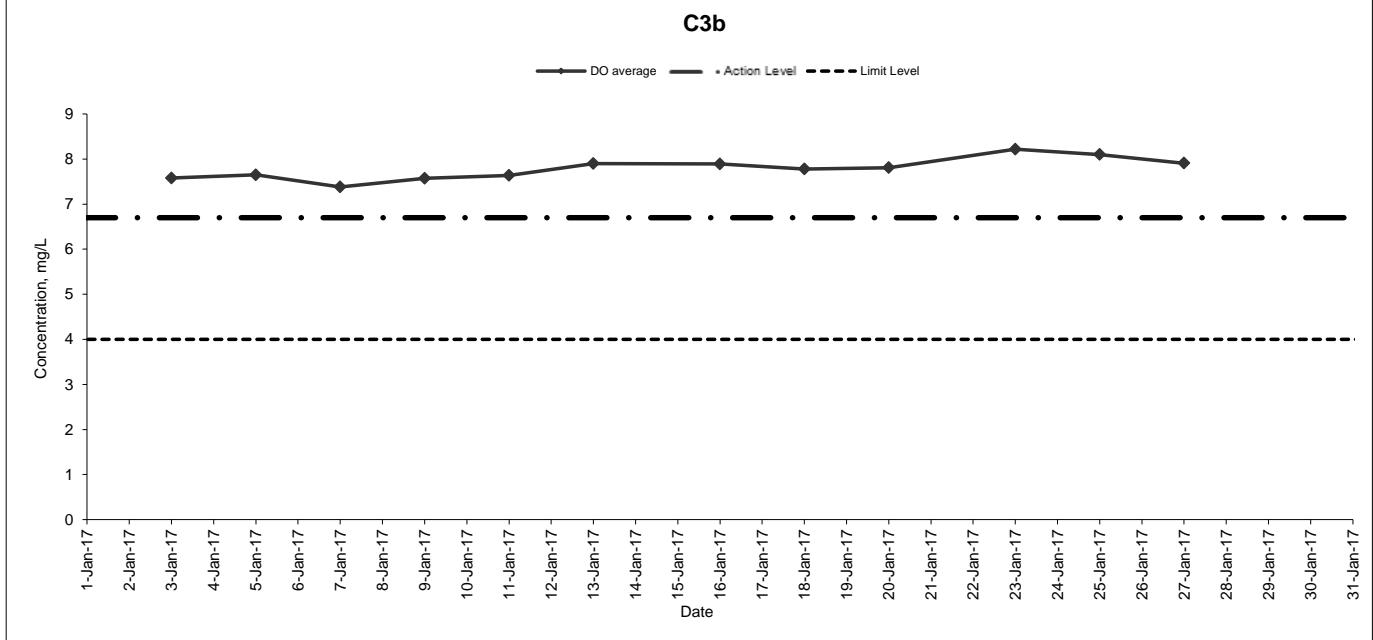
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C3a

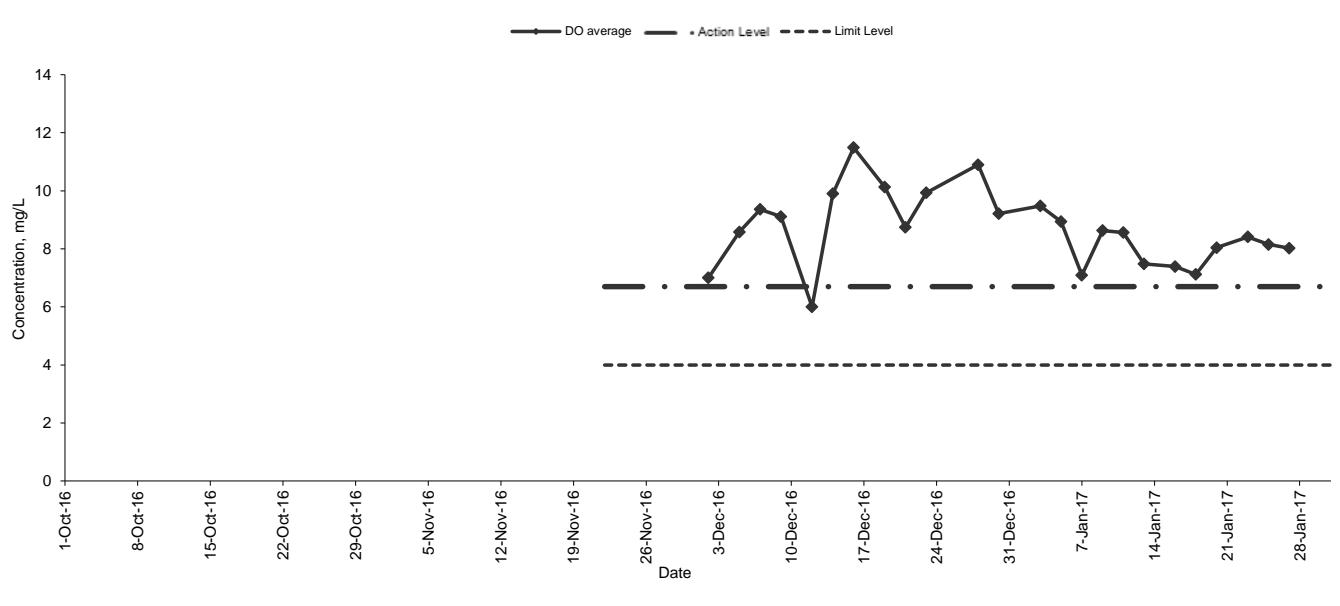


C3b

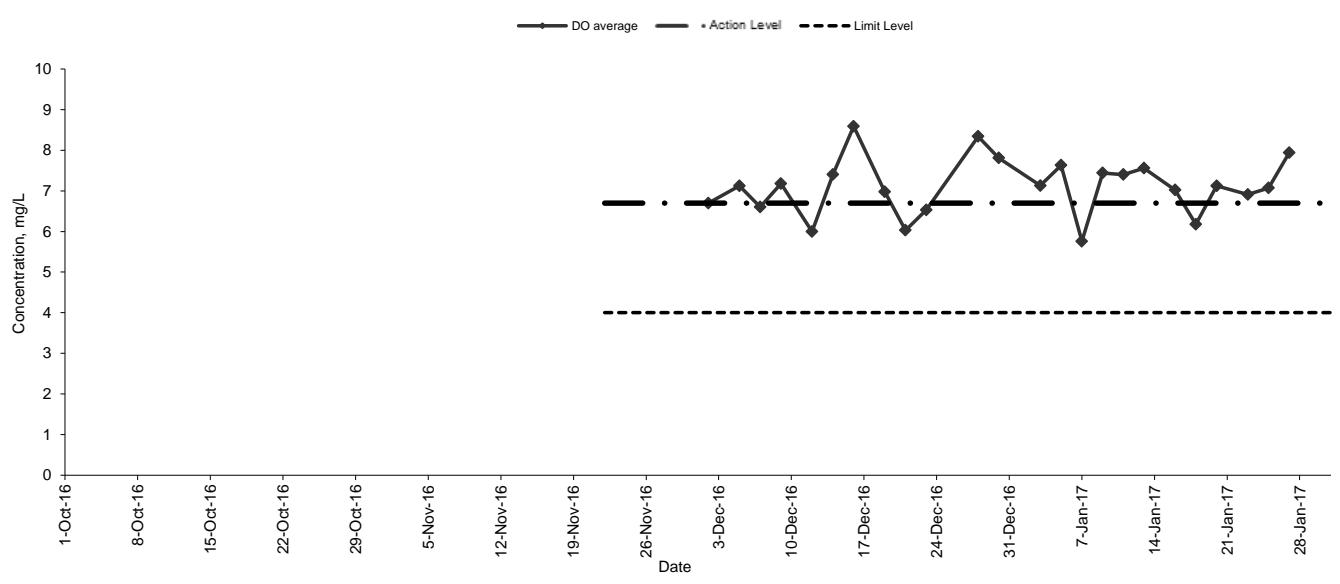


Dissolved Oxygen (October 2016 - January 2017)

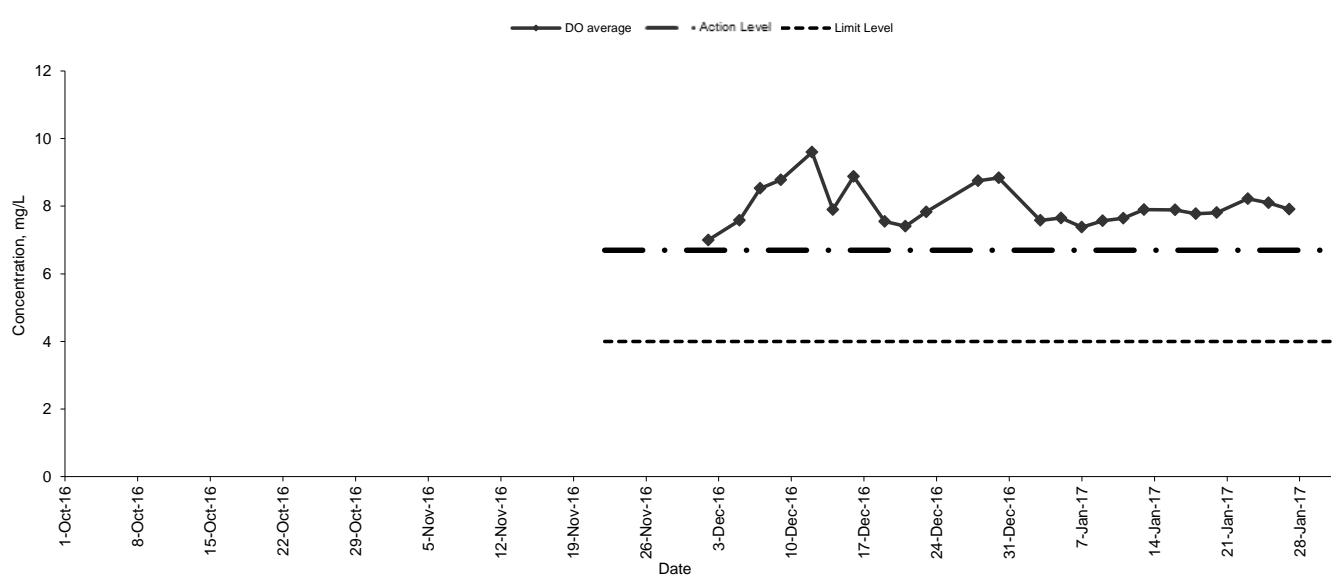
I5



C3a

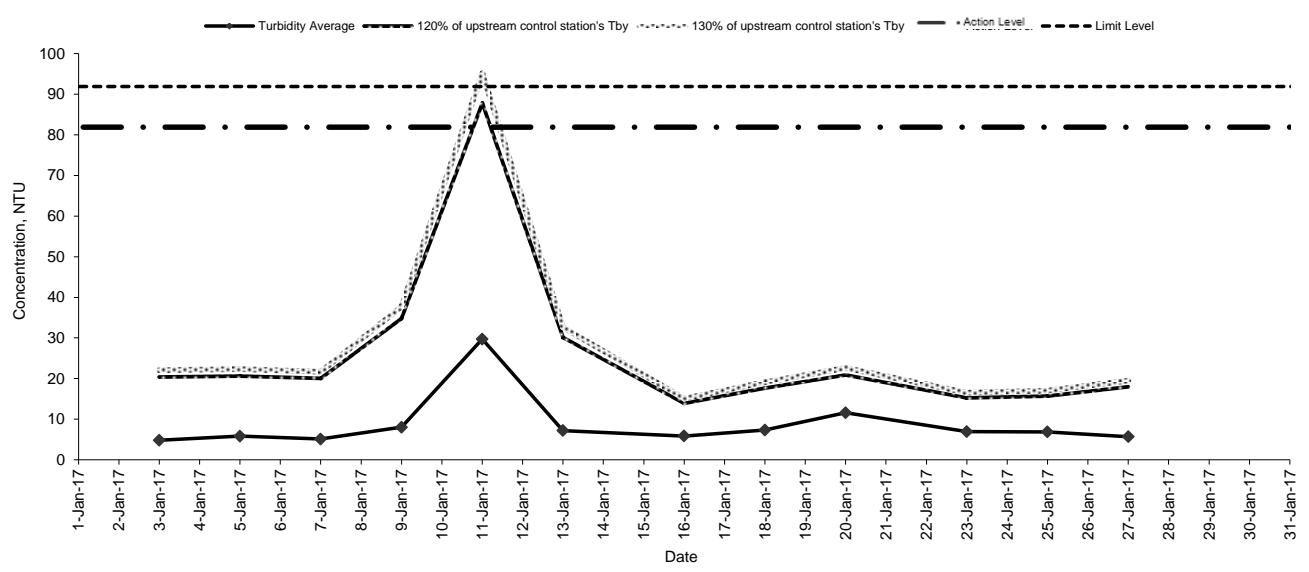


C3b

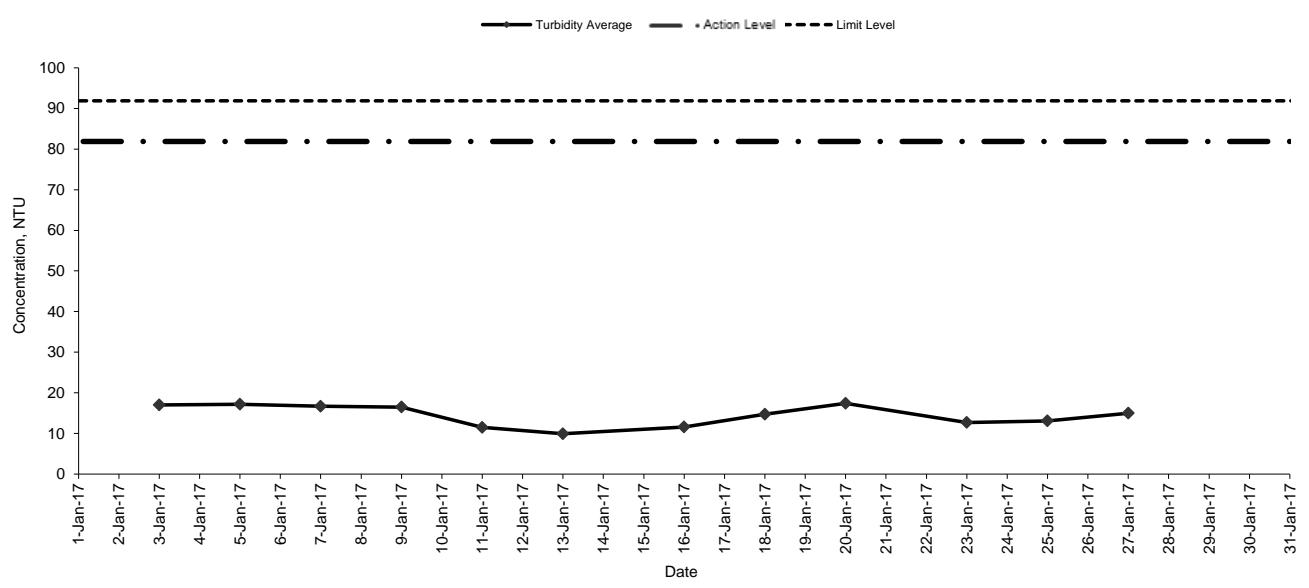


Turbidity

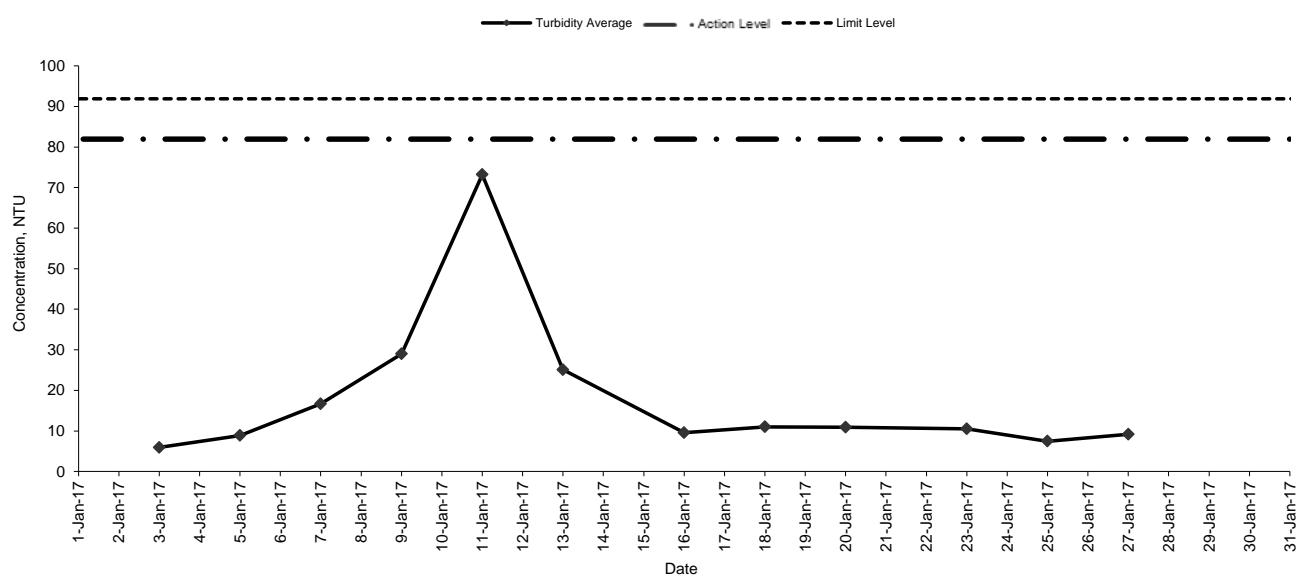
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C3a

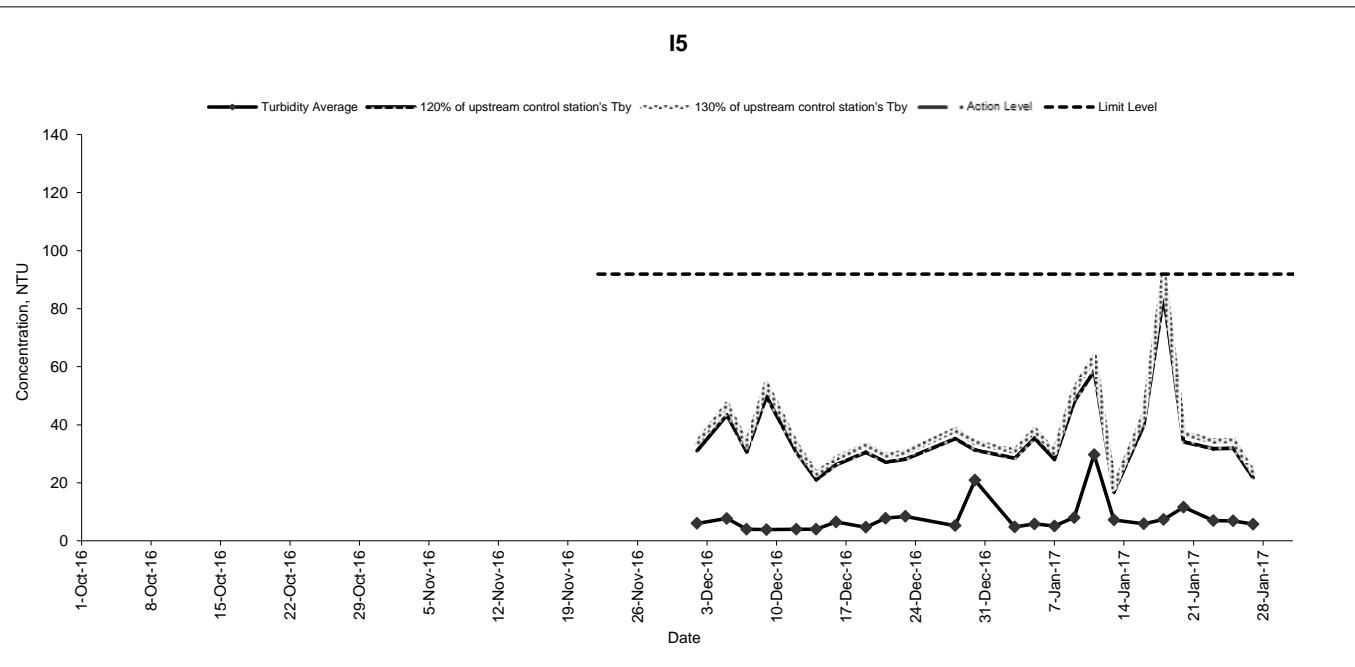


C3b

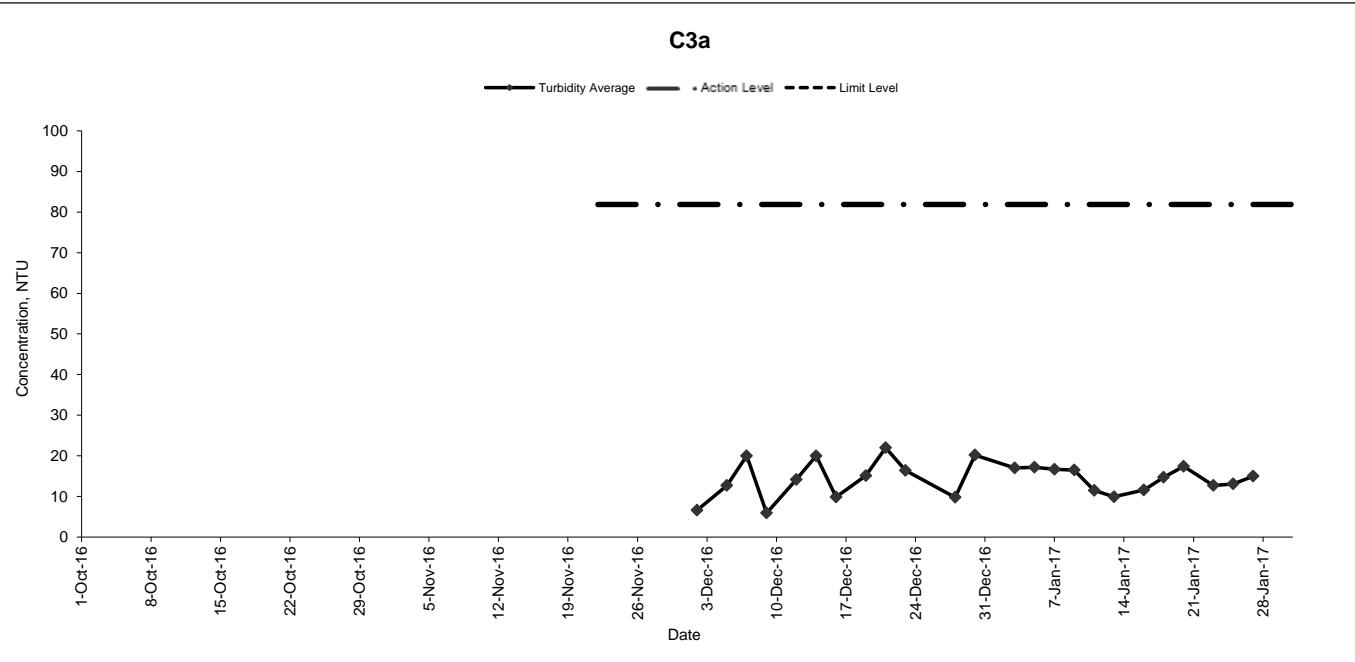


Turbidity (October 2016 - January 2017)

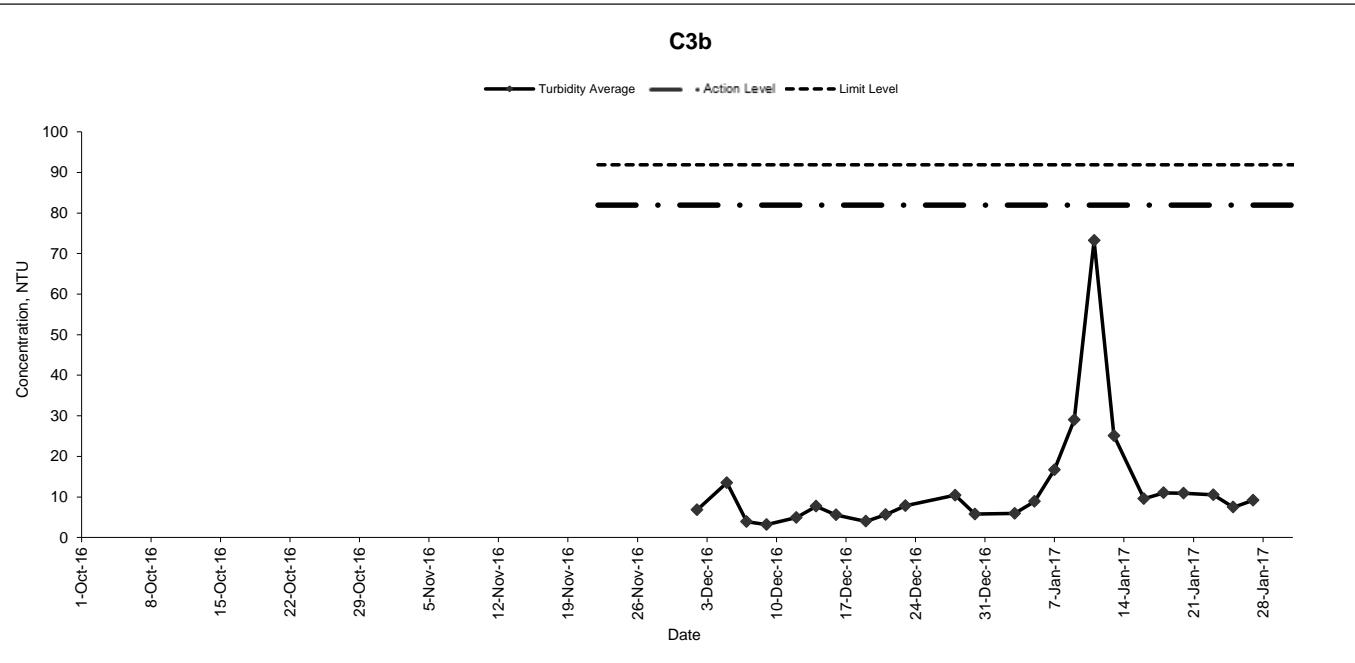
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C3a

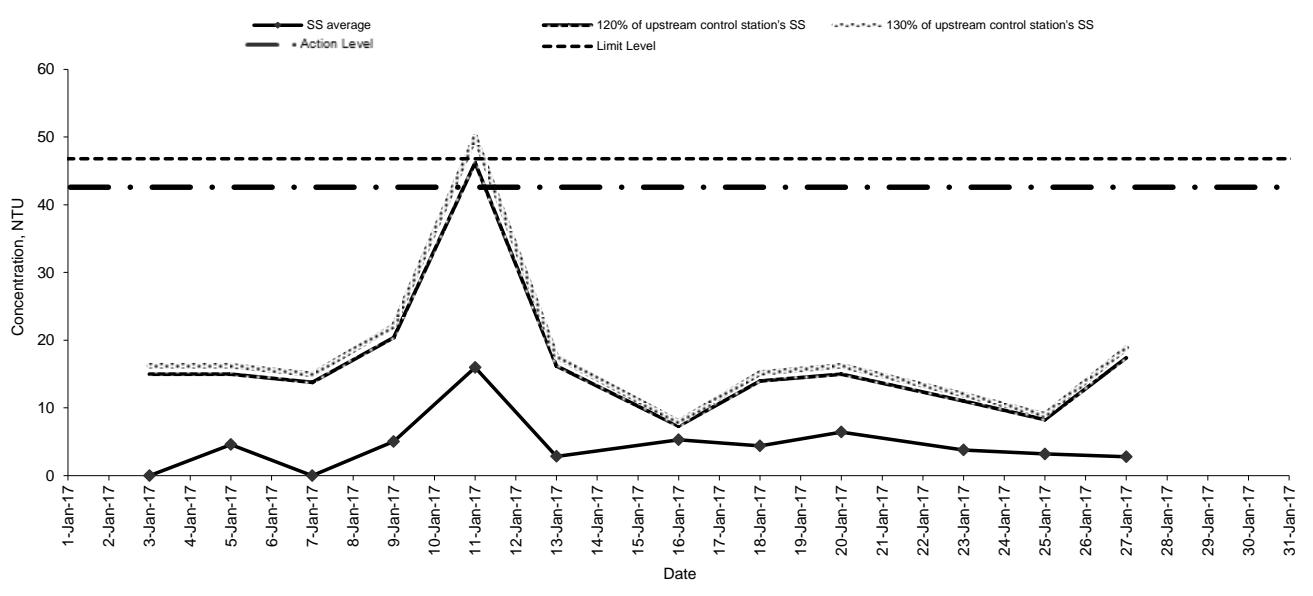


C3b

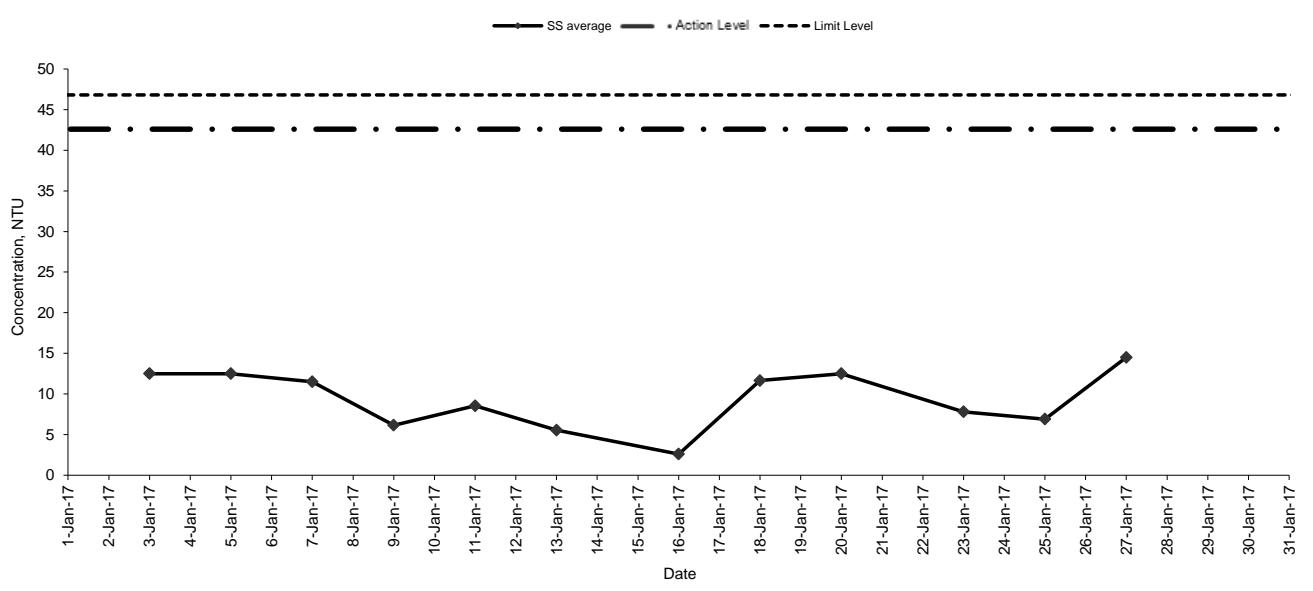


Suspended Solid

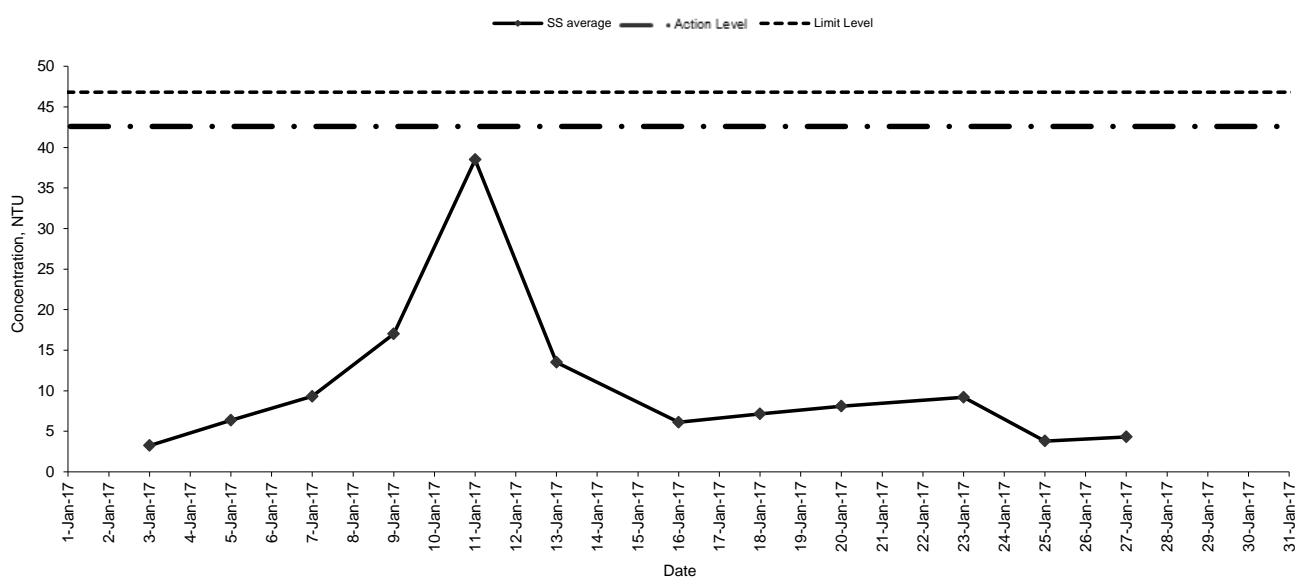
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C3a



C3b



Suspended Solid (October 2016 - January 2017)

