

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Investigation Report of Environmental Quality Exceedance(s)

Ref. No.: W131109_DO

Date	9 November 2013
Time	10:33
Monitoring Location	I5
Parameter	Dissolved Oxygen (DO)
Action / Limit Levels	Action Level: 6.7 mg/L Limit Level: 4 mg/L or 40% saturation at 15 degree Celsius
Measured Level	6.1 mg/L (Action level being exceeded ⁽¹⁾)
Possible reason for the exceedance ⁽¹⁾	<p>According to the monitoring results on 9 November 2013, it is noted that the average DO level of C3a and C3b was 5.9mg/L, which was lower than the DO level of I5 (i.e. 6.1mg/L). Therefore, the non-compliance is likely due to the source from the upstream of the river on that day, and it is considered not project related.</p> <p>From the monitoring results on 11 November 2013, the DO level of I5 was 7.0 mg/L, which was higher than the action level. No non-compliance was recorded.</p> <p>To conclude, the non-compliance was related to sources from upstream of the river on that day, and non-project related.</p>
Action taken / to be taken	As the non-compliance was non-projected, no further investigation and necessary remedial measure(s) would be required.
Remarks	-

Note:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

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: 11/11/2013

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	11:46	<0.5	24.5	24.5	7.7	7.7	6.23	6.2	74.7	74.6	28.2	26.2	<0.1	<0.1	34	33.5
			24.5		7.7		6.23		74.4		24.2		<0.1		33	
C3b	11:34	<0.5	24.1	24.1	8.0	8.0	6.84	6.8	81.3	81.4	87.3	88.5	<0.1	<0.1	130	133
			24.1		8.0		6.84		81.4		89.6		<0.1		136	
I5	11:17	<0.5	24.4	24.4	7.8	7.8	7.02	7.0	84.0	84.0	17.0	17.0	<0.1	<0.1	12	13
			24.4		7.8		7.01		83.9		16.9		<0.1		14	

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Investigation Report of Environmental Quality Exceedance(s)

Ref. No.: W131118_DO

Date	18 November 2013
Time	18:19
Monitoring Location	I5
Parameter	Dissolved Oxygen (DO)
Action / Limit Levels	Action Level: 6.7 mg/L Limit Level: 4 mg/L or 40% saturation at 15 degree Celsius
Measured Level	4.4 mg/L (Action level being exceeded ⁽¹⁾)
Possible reason for the exceedance ⁽¹⁾	<p>According to the monitoring results on 18 November 2013, it is noted that the DO level of C3a was 4.2 mg/L, which was much lower than the DO level of I5. Therefore, the non-compliance is likely due to the source from the upstream of the river on that day, and it is considered not project related.</p> <p>From the monitoring results on 20 November 2013, the DO level of I5 was 8.5 mg/L, which was higher than the action level. No non-compliance was recorded.</p> <p>To conclude, the non-compliance was related to sources from upstream of the river on that day, and it is non-project related.</p>
Action taken / to be taken	As the non-compliance was non-projected, no further investigation and necessary remedial measure(s) would be required.
Remarks	-

Note:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

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: 11/20/2013

Weather: Fine

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	16:09	<0.5	22.1	22.1	7.7	7.7	5.7	5.7	65.3	65.2	14.8	14.0	<0.1	<0.1	10	9
			22.1		7.7		5.7		65.0		13.2		<0.1		8	
C3b	15:45	<0.5	21.4	21.4	8.0	8.0	6.5	6.5	73.7	73.4	18.7	18.7	<0.1	<0.1	8	9
			21.4		8.0		6.5		73.0		18.6		<0.1		10	
I5	15:15	<0.5	22.2	22.3	7.9	7.9	8.5	8.5	97.7	97.9	13.5	13.5	<0.1	<0.1	6	7
			22.3		7.9		8.5		98.0		13.4		<0.1		8	