

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	04-Nov-11
Time	3:13 PM
Monitoring Location	O-1(ET)
Parameter	Dissolved Oxygen (marine surface)
Action & Limit Levels (mg/L)	7.02 / 6.94
Measured Level (mg/L)	6.95
Control Station	O-1-C(ET)
Measured Level at the Control Station (mg/L)	6.91
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine surface) at the monitoring station was below the baseline action level, but higher than the DO level of the corresponding control station. Only relocation of grade 200 rockfill and trimming formation for precast concrete panel were undertaken at the Outfall basin (Portion E) on the monitoring day. No other marine works was conducted. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from the seawater level to the bottom of seabed; (2) floating type silt curtain was employed at the inner side; (3) sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed; and (4) condition of silt curtains was checked by the supervisor daily before undertaking any marine works.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:



Date: 07-Nov-11

**Photographic record for exceedance of Dissolved Oxygen (marine surface) recorded at O-1(ET) on 04-Nov-11**



Site photo

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	02-Nov-11
Time	1:38 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39
Measured Level (mg/L)	9.23
Control Station	O-1-C(ET)
Measured Level at the Control Station (mg/L)	7.50
Possible reason for Action or Limit Level Non-compliance	The measured SS level at the monitoring station was below the baseline action/limit level, but higher than 120% of the SS level of the corresponding control station. Only trimming formation for precast concrete panel was undertaken at the Outfall basin (Portion E) on the monitoring day. No other marine works was conducted. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from the seawater level to the bottom of seabed; (2) floating type silt curtain was employed at the inner side; (3) sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed; and (4) condition of silt curtains was checked by the supervisor daily before undertaking any marine works.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:



Date: 09-Nov-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 02-Nov-11



Site photo




Site photo

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	02-Nov-11
Time	11:50 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	8.85 / 10.17
Measured Level (mg/L)	7.05
Control Station	I-1-C
Measured Level at the Control Station (mg/L)	5.60
Possible reason for Action or Limit Level Non-compliance	The measured SS level was below the baseline action/limit level, but higher than 120% of the SS level of the control station (I-1-C). General cleaning and housekeeping, geotechnical instrumentation monitoring, making good spiral ramp concrete surface and cleaning, and drilling H-pile for PA wall were undertaken at the site during the monitoring day. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) wastewater was collected and diverted to waste water treatment plant prior to discharge; and (2) nullah and site area were separated by sealed concrete blocks.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 09-Nov-11

Photographic record for exceedance of Suspended Solids (SS) recorded at Sik Sik Yuen Ho Fung College (I-1) on 02-Nov-11



Site photo



Photo taken at I-1




Photo taken at I-1-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	09-Nov-11
Time	11:40 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Turbidity
Action & Limit Levels (NTU)	9.75 / 12.47
Measured Level (NTU)	15.06
Control Station	I-1-C
Measured Level at the Control Station (NTU)	15.42
Possible reason for Action or Limit Level Non-compliance	The measured turbidity level was higher than the baseline limit level, but lower than the turbidity level of the control station (I-1-C). General cleaning and housekeeping, monitoring of de-formation monitoring point (DMP), making good of concrete face and cleaning at spiral ramp, weir footing steel bar drilling and inserting steel bars, and site clearance at PA wall were undertaken during the monitoring day. No direct disturbance was observed from the site. About 44.2 mm rainfall was recorded by the Hong Kong Observatory on the monitoring day. Therefore, the exceedance was considered to be contributed by high turbidity level at upstream location and rainfall. Since the exceedance was non-project related, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) wastewater was collected and diverted to waste water treatment plant prior to discharge; and (2) nullah and site area were separated by sealed concrete blocks.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 10-Nov-11

Photographic record for exceedance of Turbidity recorded at Sik Sik Yuen Ho Fung College (I-1) on 09-Nov-11



Site photo



Photo taken at I-1




Photo taken at I-1-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	09-Nov-11
Time	11:10 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Turbidity
Action & Limit Levels (NTU)	6.63 / 6.99
Measured Level (NTU)	19.50
Control Station	I-2-C
Measured Level at the Control Station (NTU)	19.40
Possible reason for Action or Limit Level Non-compliance	The measured turbidity level was higher than the baseline limit level, but lower than 120% of turbidity level of the control station (I-2-C). General site cleaning, housekeeping and temporary traffic arrangement (TTA), mucking, drilling blast holes and shotcreting, excavation for soil nailing at L-shape wall, backfilling for 1.5 m diameter drainage pipe next to catchpit WS1, breaking concrete buttress at Bay 2, removing formwork and curing for capping beam at Bay 1, closing formwork for capping beam Bay 5, trimming slope between 300 U-channel at mid-level of slope, and erection of formwork for 300 step channel and catchpit 7 were undertaken during the monitoring day. No direct disturbance was observed from the site. About 44.2 mm rainfall was recorded by the Hong Kong Observatory on the monitoring day. Therefore, the exceedance was considered to be contributed by high turbidity level at upstream location and rainfall. Since the exceedance was non-project related, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) Wastewater was collected and diverted to waste water treatment plant prior to discharge; (2) existing stream was diverted and bunded by sealed concrete block wall; and (3) existing stream was bunded off by sand bag to prevent any excavated material washing out from working area.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 10-Nov-11

Photographic record for exceedance of Turbidity recorded at Hong Hoi Chee Hong Temple (I-2)  
on 09-Nov-11



Photo taken at I-2




Photo taken at I-2-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	09-Nov-11
Time	10:25 AM
Monitoring Location	Squatters (I-3)
Parameter	Turbidity
Action & Limit Levels (NTU)	3.99 / 4.18
Measured Level (NTU)	4.09
Control Station	I-3-C
Measured Level at the Control Station (NTU)	4.17
Possible reason for Action or Limit Level Non-compliance	The measured turbidity level was higher than the baseline action level, but lower than the turbidity level of the control station (I-3-C). General site cleaning and housekeeping, monitoring of de-formation monitoring point (DMP), drilling hole for rock splitting, rock breaking and mucking out, lowering down of permanent access road at PB wall, and dismantling of concrete bund wall at approach channel were undertaken during the monitoring day. No direct disturbance was observed from the site. Therefore, the exceedance was considered to be contributed by high turbidity level at upstream location. Since the exceedance was non-project related, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) wastewater was collected and diverted to waste water treatment plant prior to discharge; (2) existing stream was diverted and banded by sealed concrete block wall; (3) excavated area was banded and sealed by concrete block wall to prevent any excavated material runoff from the working area.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 10-Nov-11

Photographic record for exceedance of Turbidity recorded at Squatters (I-3) on 09-Nov-11



Photo taken at I-3



Photo of I-3-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	07-Nov-11
Time	12:50 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08
Measured Level (mg/L)	5.28
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	3.87
Possible reason for Action or Limit Level Non-compliance	The measured SS level at the monitoring station was well below the baseline action/limit level, but slightly higher than 130% of the SS level of the corresponding control station. Only placing level stone for formation of precast panels was undertaken at the Outfall basin (Portion E) on the monitoring day. No other marine works was conducted. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from the seawater level to the bottom of seabed; (2) floating type silt curtain was employed at the inner side; (3) sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed; and (4) condition of silt curtains was checked by the supervisor daily before undertaking any marine works.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:



Date: 15-Nov-11

**Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 07-Nov-11**




Site photo

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	09-Nov-11
Time	11:40 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	8.85 / 10.17
Measured Level (mg/L)	12.70
Control Station	I-1-C
Measured Level at the Control Station (mg/L)	12.90
Possible reason for Action or Limit Level Non-compliance	The measured SS level was higher than the baseline limit level, but lower than the SS level of the control station (I-1-C). General cleaning and housekeeping, monitoring of de-deformation monitoring point (DMP), making good of concrete face and cleaning at spiral ramp, weir footing steel bar drilling and inserting steel bars, and site clearance at PA wall were undertaken during the monitoring day. No direct disturbance was observed from the site. About 44.2 mm rainfall was recorded by the Hong Kong Observatory on the monitoring day. Therefore, the exceedance was considered to be contributed by high SS level at upstream location and rainfall. Since the exceedance was non-project related, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) wastewater was collected and diverted to waste water treatment plant prior to discharge; and (2) nullah and site area were separated by sealed concrete blocks.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 16-Nov-11

Photographic record for exceedance of Suspended Solids (SS) recorded at Sik Sik Yuen Ho Fung College (I-1) on 09-Nov-11



Site photo



Photo taken at I-1




Photo taken at I-1-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	09-Nov-11
Time	11:10 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	18.00
Control Station	I-2-C
Measured Level at the Control Station (mg/L)	18.20
Possible reason for Action or Limit Level Non-compliance	The measured SS level was higher than the baseline limit level, but lower than the SS level of the control station (I-2-C). General site cleaning, housekeeping and temporary traffic arrangement (TTA), mucking, drilling blast holes and shotcreting, excavation for soil nailing at L-shaped wall, backfilling for 1.5 m diameter drainage pipe next to catchpit WS1, breaking concrete buttress at Bay 2, removing formwork and curing for capping beam at Bay 1, closing formwork for capping beam Bay 5, trimming slope between 300 U-channel at mid-level of slope, and erection of formwork for 300 step channel and catchpit 7 were undertaken during the monitoring day. No direct disturbance was observed from the site. About 44.2 mm rainfall was recorded by the Hong Kong Observatory on the monitoring day. Therefore, the exceedance was considered to be contributed by high SS level at upstream location and rainfall. Since the exceedance was non-project related, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) Wastewater was collected and diverted to waste water treatment plant prior to discharge; (2) existing stream was diverted and bunded by sealed concrete block wall; and (3) existing stream was bunded off by sand bag to prevent any excavated material washing out from working area.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 16-Nov-11

Photographic record for exceedance of Suspended Solids (SS) recorded at Hong Hoi Chee Hong Temple (I-2) on 09-Nov-11



Photo taken at I-2



Photo taken at I-2-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	23-Nov-11
Time	2:35 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08
Measured Level (mg/L)	5.97
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	4.78
Possible reason for Action or Limit Level Non-compliance	The measured SS level at the monitoring station was well below the baseline action/limit level, but slightly higher than 120% of the SS level of the corresponding control station. Only erection of formwork at open channel, and placing level stone and checking the formation for precast panels were undertaken at the Outfall basin (Portion E) on the monitoring day. No other marine works was conducted. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from the seawater level to the bottom of seabed; (2) floating type silt curtain was employed at the inner side; (3) sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed; and (4) condition of silt curtains was checked by the supervisor daily before undertaking any marine works.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:



Date: 1-Dec-11

**Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 23-Nov-11**




Site photo

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	23-Nov-11
Time	3:40 PM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	2.60
Control Station	I-2-C
Measured Level at the Control Station (mg/L)	<2.00
Possible reason for Action or Limit Level Non-compliance	The measured SS level was well below the baseline action/limit level and same as 130% of the SS level of the control station (I-2-C). General site cleaning, housekeeping and temporary traffic arrangement (TTA); mucking out, drilling blast holes, survey check and rock mapping; drilling holes and grouting for soil nails at L-shape wall; formation of layer at trench, installation of cut pipe and fixing rebar for WS2; preparation works for demobilizing the mobile crane; erecting formwork for CP7 at 300 stepped channel; casting concrete for capping beam bay 6 and apron of 1500 stepped channel; and trimming final slope profile beside West Monastery were undertaken during the monitoring day. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	The following mitigation measures were provided on-site during monitoring: (1) Wastewater was collected and diverted to waste water treatment plant prior to discharge; (2) existing stream was diverted and bunded by sealed concrete block wall; and (3) existing stream was bunded off by sand bag to prevent any excavated material washing out from working area.
Remarks	None

Prepared by: Fan Cheong Tsang  
 Designation: Environmental Team Leader  
 Signature:   
 Date: 1-Dec-11

Photographic record for exceedance of Suspended Solids (SS) recorded at Hong Hoi Chee Hong Temple (I-2) on 23-Nov-11



Photo taken at I-2



Photo taken at I-2-C

**Interim Notification of Environmental Quality Limit Exceedance**

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	28-Nov-11
Time	7:50 AM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08
Measured Level (mg/L)	8.33
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	6.42
Possible reason for Action or Limit Level Non-compliance	The measured SS level at the monitoring station was below the baseline action/limit level, but higher than 120% of the SS level of the corresponding control station. Only maintenance of the outer silt curtain and shifting the type II armour storage at the eastern seawall were undertaken at the Outfall basin (Portion E) on the monitoring day. No other marine works was conducted. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and non-project related. Therefore, no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from the seawater level to the bottom of seabed; (2) floating type silt curtain was employed at the inner side; (3) sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed; and (4) condition of silt curtains was checked by the supervisor daily before undertaking any marine works.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:



Date: 07-Dec-11

**Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 28-Nov-11**



Site photo