Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Oct-10
Time	9:38 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Turbidity
Action & Limit Levels	6.63/6.99
Measured Level	7.72
Possible reason for Action or Limit Level Non-compliance	A high turbidity level of 7.73 is recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured turbidity level was above the Baseline Limit level and beyond the range of baseline turbidity concentration (2.17-7.08 NTU). Construction activities including General Site Cleaning & Housekeeping; Excavation and rock splitting at Vortex Drop Shaft; Excavation and rock splitting at Man Access Shaft; Pipe Jacking at Portion G; and Erect formwork and rebar fixing of pile caps at Portion G. No direct disturbance was observed from the site. Thus, the exceedance is considered to be natural variation and no action should be taken.
Remarks	Following mitigation measures were provided: (1) Waste water will be collected to Waste Water Treatment Plant and treat before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Ken Wong

Designation: Environmental Team Leader

Signature: 

Date: 21-Oct-10

Photographic record for exceedance of Turbidity recorded at Hong Hoi Chee Hong Temple (I-2) on 15-Oct-10

Site photo.

Photo taken at I-2

Photo taken at I-2-C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Oct-10
Time	9:00 AM
Monitoring Location	Squatters (I-3)
Parameter	Turbidity
Action & Limit Levels	3.99 / 4.18
Measured Level	7.80
Possible reason for Action or Limit Level Non-compliance	A high turbidity level of 7.88 is recorded at Control Station (I-3-C).
Actions taken / to be taken	The measured turbidity level was above the Baseline Limit level and beyond the range of baseline turbidity concentration (1.41-4.23 NTU). Construction activities including General Site Cleaning & Housekeeping; Excavation of footpath, breaking existing wall and lay concrete blocks at PB Wall; Excavation of Shaft. No direct disturbance was observed from the site. Thus, the exceedance is considered to be natural variation and no action should be taken.
Remarks	Following mitigation measures were provided: 1) Waste water will be collected to Waste Water Treatment Plant and treat before discharge; 2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Ken Wong

Designation: Environmental Team Leader

Signature: 

Date: 21-Oct-10

Photographic record for exceedance of Turbidity recorded at Squatters (I-3) on 15-Oct-10

Site photo

Photo taken at I-3

Photo taken at I-3C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	13-Oct-10
Time	11:27 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	2.95 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.05 was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-10.5mg/L). General site cleaning and housekeeping; Formwork erection for Planter at Bay 18; Formwork erection for wall at Bay 19; and Set up Plant for horizontal drilling were undertaken during the measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: 1) Waste water will be collected to Waste Water Treatment Plant and treated before discharge; 2) Nullah and site had been separated by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 27-Oct-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 13-Oct-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	13-Oct-10
Time	10:50 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	3.20 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-8.5mg/L). General site clenaing and housekeeping; excavation and rock splitting at vortex drop shaft; excavation and rock splitting at man access shaft; pipe jacking at portion G; and erect formwork and fix rebar pile caps at Portion G were undertaken during the measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: 1)Waste water will be collected to Waste water treatment plant and treated before discharge; 2) Exsiting stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 27-Oct-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 13-Oct-10

Site photo

Photo taken at I-2

Photo taken at I-2C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Oct-10
Time	9:38 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	8.15
Possible reason for Action or Limit Level Non-compliance	A high SS level of 11.20 was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was above Baseline Action Level and beyond range of baseline SS concentration (1-8.5mg/L). General site clenaing and housekeeping; excavation, rock splitting and gantry repair at vortex drop shaft; pipe jacking at portion G; erect formwork and fix rebar pile caps at portion G were undertaken during the measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by high SS level at control station and natural variation and no action should be required.
Remarks	Following mitigation measures were provided: 1) Waste water will be collected to waste water treatment plant and treated before discharge; 2) Exsiting stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 27-Oct-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 15-Oct-10

Site photo

Photo taken at I-2

Photo taken at I-2C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	20-Oct-10
Time	10:27 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85/10.17
Measured Level	2.95 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.35 was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-10.5mg/L). General site clenaing and housekeeping; formwork and rebar erection for slab at Bay 19; formwork erection at Bay 20 wall; rebar erection at Bay 21 wall; and horizontal drilling were undertaken during the measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: 1) Waste water will be collected to Waste Water Treatment Plant and treated before discharge; 2) Nullah and site had been separated by sealed concrete block well.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 02-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 20-Oct-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	22-Oct-10
Time	9:58 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85/10.17
Measured Level	5.00 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.90 was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-10.5mg/L). General site cleaning and housekeeping; formwork erection for planter at Bay 19; formwork erection at Bay 20 & 21 wall; and horizontal drilling were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: 1) Waste water will be collected to Waste Water Treatment Plant and treated before discharge; 2) Nullah and site had been separated by sealed concrete block well.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 02-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 22-Oct-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	10:10 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	8.85/10.17
Measured Level (mg/L)	7.45 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.85 mg/L was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1 - 10.5 mg/L). General site cleaning and housekeeping; formwork erection for slab at Bay 20; rebar erection at Bay 22 wall; and horizontal drilling were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: 1) Waste water will be collected to wastewater treatment plant and treated before discharge; 2) Nullah and site had been separated by sealed concrete block well.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 27-Oct-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	25-Oct-10
Time	9:35 AM
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine bottom)
Action & Limit Levels (mg/L)	6.99 / 6.96
Measured Level (mg/L)	6.79
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine bottom) was below baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine bottom DO variation between 2.2 and 8.8 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.4 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Marker buoys were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 25 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine bottom) recorded at O-1(FT) on 25-Oct-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	25-Oct-10
Time	12.55:00 PM
Monitoring Location	O-1(ET)
Parameter	Dissolved Oxygen (mid-depth)
Action & Limit Levels (mg/L)	7.02 / 6.94
Measured Level (mg/L)	6.93
Possible reason for Action or Limit Level Non-compliance	The measured DO level (mid-depth) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) mid-depth DO records between 2.6 and 9.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.9 and 8.5 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Marker buoys were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 25 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (mid-depth) recorded at O-1(ET) on 25-Oct-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	9:05 AM
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine surface)
Action & Limit Levels (mg/L)	6.84 / 6.81
Measured Level (mg/L)	5.50
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine surface) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine surface DO records between 4.3 and 9.4 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 4.2 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine surface) recorded at O-1(FT) on 27-Oct-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	9:05 AM
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (mid-depth)
Action & Limit Levels (mg/L)	6.84 / 6.81
Measured Level (mg/L)	5.88
Possible reason for Action or Limit Level Non-compliance	The measured DO level (mid-depth) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) mid-depth DO records between 2.6 and 9.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.9 and 8.5 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (mid-depth) recorded at O-1(FT) on 27-Oct-10

Site photo

Site photo

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	9:05 AM
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine bottom)
Action & Limit Levels (mg/L)	6.99 / 6.96
Measured Level (mg/L)	5.87
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine bottom) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine bottom DO records between 2.2 and 8.8 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.4 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine bottom) recorded at O-1(FT) on 27-Oct-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	3:00 PM
Monitoring Location	O-1(ET)
Parameter	Dissolved Oxygen (marine surface)
Action & Limit Levels (mg/L)	7.02 / 6.94
Measured Level (mg/L)	6.01
Possible reason for Action or Limit Level Non-compliance	The measured marine surface DO level was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine surface DO records between 4.3 and 9.4 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 4.2 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine surface) recorded at O-1(ET) on 27-Oct-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	3:00 PM
Monitoring Location	O-1(ET)
Parameter	Dissolved Oxygen (mid-depth)
Action & Limit Levels (mg/L)	7.02 / 6.94
Measured Level (mg/L)	6.26
Possible reason for Action or Limit Level Non-compliance	The measured DO level (mid-depth) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) mid-depth DO records between 2.6 and 9.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.9 and 8.5 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (mid-depth) recorded at O-1(ET) on 27-Oct-10

Site photo

Site photo

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	3:00 PM
Monitoring Location	O-1(ET)
Parameter	Dissolved Oxygen (marine bottom)
Action & Limit Levels (mg/L)	6.70 / 6.48
Measured Level (mg/L)	6.24
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine bottom) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine bottom DO records between 2.2 and 8.8 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.4 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine bottom) recorded at O-1(ET) on 27-Oct-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Oct-10
Time	16:25:00 PM
Monitoring Location	O-1(ET)
Parameter	Dissolved Oxygen (marine surface)
Action & Limit Levels (mg/L)	7.02 / 6.94
Measured Level (mg/L)	6.75
Possible reason for Action or Limit Level Non-compliance	The measured marine surface DO level was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine surface DO records between 4.3 and 9.4 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 4.2 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Marine dredging was undertaken at the outfall basin on 29 October 2010. Silt curtains had been deployed along the dredging boundary line and extended from seawater level to the bottom of seabed. Frame type silt curtain had been employed for the derrick barge. All dredging operation was confined in the frame type silt curtain. Thus, the exceedance is considered to be essentially due to natural variation.
Actions taken / to be taken	1. Silt curtains have been deployed along the dredging boundary line and extended from seawater level to the bottom of seabed. 2. Frame type silt curtain have been employed for the derrick barge and all dredging operation has been confined in the frame type silt curtain. 3. Closed grab has been used and the daily dredging rate is limited to a maximum 960 m^3. 4. Sufficient slack of silt curtain is allowed to ensure the curtain rested on the seabed to cope with waves and tides.
Remarks	None

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 5-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine surface) recorded at O-1(ET) on 29-Oct-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	25-Oct-10
Time	9:35 AM
Monitoring Location	O-1(FT)
Parameter	Turbidity (Tby)
Action & Limit Levels (NTU)	10.35 / 13.15 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (NTU)	14.13
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (NTU)	13.77
Possible reason for Action or Limit Level Non-compliance	The measured Tby level (depth-averaged) at O-1(FT) was above the baseline Action / Limit Level but was less than 120% of the upstream control station's Tby level (at O-1-C(FT)) at the same tide of the same day. These measurement results are also within the ranges of 3-year (2007 - 2009) turbidity records between 2.9 and 18.8 NTU at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.6 and 19.3 NTU at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Marker buoys were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 25 October 2010. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 8-Nov-10

Photographic record for exceedance of Turbidity (Tby) recorded at O-1(FT) on 25-Oct-10

Site photo

Site photo

Site photo

Interim Notifications of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	25-Oct-10
Time	9:35 AM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	21.65
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	24.32
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was above the baseline Action / Limit Level but was less than 120% of the upstream control station's SS level (at O-1-C(FT)) at the same tide of the same day. These measurement results are beyond the ranges of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.2 and 15.3 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Marker buoys were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 25 October 2010. Thus, the exceedance is considered not related to the marine works on site.
Actions taken / to be taken	None
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 8-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 25-Oct-10

Site photo

Site photo

Site photo

Interim Notifications of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	25-Oct-10
Time	12:55 P.M.
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	14.62
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	10.55
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was above the baseline Action / Limit Level and more than 130% of the upstream control station's SS level (at O-1-C(ET)) at the same tide of the same day. However, these measurement results are within the ranges of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.2 and 15.3 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Marker buoys were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 25 October 2010. Thus, the exceedance is considered not related to the marine works on site.
Actions taken / to be taken	None
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 8-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 25-Oct-10

Site photo

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	9:05 AM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	14.65
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	11.75
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was between the baseline Action Level and the Limit Level and was about 125% of the upstream control station's SS level (at O-1-C(FT)) at the same tide of the same day. However, these measurement results are within the ranges of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.2 and 15.3 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered not related to the marine works on site.
Actions taken / to be taken	None
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 8-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 27-Oct-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Oct-10
Time	3:00 P.M.
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	13.20
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	9.78
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was lower than the baseline Action / Limit Level but was more than 130% of the upstream control station's SS level (at O-1-C(ET)) at the same tide of the same day. However, these measurement results are within the ranges of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.2 and 15.3 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 27 October 2010. Thus, the exceedance is considered not related to the marine works on site.
Actions taken / to be taken	None
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 8-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 27-Oct-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Oct-10
Time	4:25 P.M.
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	13.33
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	17.15
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was between the baseline Action Level and the Limit Level, but was less than 120% of the upstream control station's SS level (at O-1-C(ET)) at the same tide of the same day. The measurement results are within the range of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan. Marine dredging was undertaken at the outfall basin on 29 October 2010. Silt curtains had been deployed along the dredging boundary line and extended from seawater level to the bottom of seabed. Frame type silt curtain had been employed for the derrick barge. All dredging operation was confined in the frame type silt curtain. Thus, the exceedance is considered to be contributed by natural variation. No further action is required.
Actions taken / to be taken	1. Silt curtains have been deployed along the dredging boundary line and extended from seawater level to the bottom of seabed. 2. Frame type silt curtain have been employed for the derrick barge and all dredging operation has been confined in the frame type silt curtain. 3. Closed grab has been used and the daily dredging rate is limited to a maximum 960 m^3. 4. Sufficient slack of silt curtain is allowed to ensure the curtain rested on the seabed to cope with waves and tides.
Remarks	None

Prepared by: F. C. Tsang

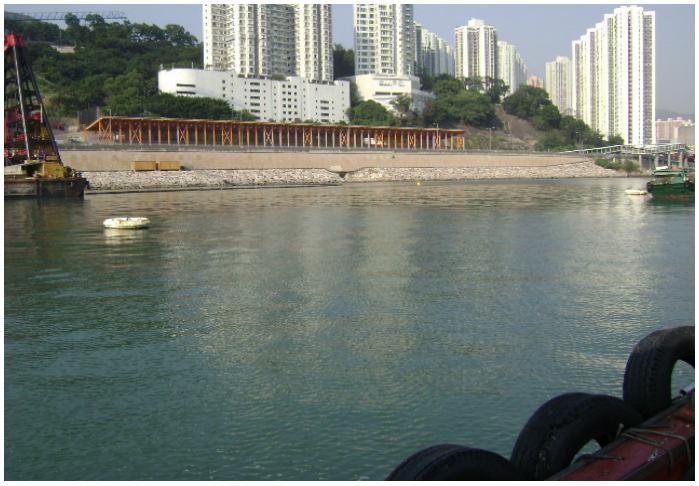
Designation: Environmental Team Leader

Signature: 

Date: 8-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 29-Oct-10

Site photo



Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	1-Nov-10
Time	11.28 A.M.
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine surface)
Action & Limit Levels (mg/L)	6.84 / 6.81
Measured Level (mg/L)	6.83
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	7.29
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine surface) was below the baseline Action Level but was within the ranges of 3-year (2007 - 2009) marine surface DO records between 4.3 and 9.4 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 4.2 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Dredging was conducted at the Outfall basin (portion E). Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 12-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine surface) recorded at O-1(FT) on 01-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	1-Nov-10
Time	11.28 A.M.
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (mid-depth)
Action & Limit Levels (mg/L)	6.84 / 6.81
Measured Level (mg/L)	6.7
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	7.00
Possible reason for Action or Limit Level Non-compliance	The measured DO level (mid-depth) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) mid-depth DO records between 2.6 and 9.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.9 and 8.5 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Dredging was conducted at the Outfall basin (portion E). Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 12-Nov-10

Photographic record for exceedance of Dissolved Oxygen (mid-depth) recorded at O-1(FT) on 01-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	1-Nov-10
Time	11.28 A.M.
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine bottom)
Action & Limit Levels (mg/L)	6.99 / 6.96
Measured Level (mg/L)	6.51
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	7.18
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine bottom) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine bottom DO records between 2.2 and 8.8 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.4 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Dredging was conducted at the Outfall basin (portion E). Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 12-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine bottom) recorded at O-1(FT) on 01-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	3-Nov-10
Time	14:10 P.M.
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine surface)
Action & Limit Levels (mg/L)	6.84 / 6.81
Measured Level (mg/L)	6.67
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	6.76
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine surface) was below the baseline Limit Level but was within the ranges of 3-year (2007 - 2009) marine surface DO records between 4.3 and 9.4 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 4.2 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Dredging was conducted at the Outfall basin (portion E). Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 12-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine surface) recorded at O-1(FT) on 03-Nov-10

Site photo

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	3-Nov-10
Time	14:10 P.M.
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (mid-depth)
Action & Limit Levels (mg/L)	6.84 / 6.81
Measured Level (mg/L)	6.64
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	6.74
Possible reason for Action or Limit Level Non-compliance	The measured DO level (mid-depth) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) mid-depth DO records between 2.6 and 9.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.9 and 8.5 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Dredging was conducted at the Outfall basin (portion E). Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 12-Nov-10

Photographic record for exceedance of Dissolved Oxygen (mid-depth) recorded at O-1(FT) on 03-Nov-10

Site photo

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	3-Nov-10
Time	14:10 P.M.
Monitoring Location	O-1(FT)
Parameter	Dissolved Oxygen (marine bottom)
Action & Limit Levels (mg/L)	6.99 / 6.96
Measured Level (mg/L)	6.52
Control Station	O-1-C(FT)
Measured Level at the Control Station (mg/L)	6.75
Possible reason for Action or Limit Level Non-compliance	The measured DO level (marine bottom) was below the baseline Action / Limit Level but was within the ranges of 3-year (2007 - 2009) marine bottom DO records between 2.2 and 8.8 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.4 and 8.6 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Dredging was conducted at the Outfall basin (portion E). Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 12-Nov-10

Photographic record for exceedance of Dissolved Oxygen (marine bottom) recorded at O-1(FT) on 03-Nov-10

Site photo

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	03-Nov-10
Time	12:00 PM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	2.9
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 is recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-8.5mg/L). General site cleaning & housekeeping; install wire mesh and shotcreting at vortex drop shaft; excavation (hole drilling) at man access shaft; preparation work for skin wall; erect steel frame for ventilation system at 20T gantry; pipe jacking (rock breaking for 12th jacking pipe) at Portion G; and erect formwork and rebar fixing of pile caps at Portion G were undertaken during the measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: (1) Waste water was collected to Waste Water Treatment Plant and treated before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 16-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 03-Nov-10

Site photo.

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	05-Nov-10
Time	11:35 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Turbidity
Action & Limit Levels	9.75/12.47
Measured Level	10.45
Possible reason for Action or Limit Level Non-compliance	A high turbidity level of 10.89 was recorded at Control Station (I-1-C) and rainfall was recorded on 5 Nov 2010.
Actions taken / to be taken	The measured turbidity level was above baseline Action Level. It was within the range of baseline turbidity concentration (3.13 - 13.15 NTU). General site cleaning & housekeeping; dismantle formwork for Bay 19 spiral ramp; erection of formwork for Bay 22 & 23 spiral ramp and horizontal drilling were undertaken during measurement. No direct disturbance was observed from the site and the turbidity result at monitoring station was below the level of control station. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: (1) Waste water was collected to Waste Water Treatment Plant and treated before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 16-Nov-10

Photographic record for exceedance of Turbidity recorded at Sik Sik Yuen Ho Fung College (I-1) on 05-Nov-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	05-Nov-10
Time	11:06 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Turbidity
Action & Limit Levels	6.63/6.99
Measured Level	13.61
Possible reason for Action or Limit Level Non-compliance	A high turbidity level of 14.33 is recorded at Control Station (I-2-C) and rainfall was recorded on 5 Nov 2010.
Actions taken / to be taken	The measured turbidity level was above the Baseline Limit level and beyond the range of baseline turbidity concentration (2.17-7.08 NTU). Construction activities including general site cleaning & housekeeping; excavation (hole drilling) at vortex drop shaft; excavation (rock splitting and mucking) at man access shaft; preparation work for skin wall; pipe jacking (rock breaking for 13th jacking pipe) at Portion G; dismantling formwork for pile caps were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be natural variation and no action should be taken.
Remarks	Following mitigation measures were provided: (1) Waste water was collected to Waste Water Treatment Plant and treated before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: F.C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 16-Nov-10

Photographic record for exceedance of Turbidity recorded at Hong Hoi Chee Hong Temple (I-2) on 05-Nov-10

Site photo.

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	05-Nov-10
Time	11:35 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	4.10 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 3.35 was recorded at Control Station (I-1-C) and rainfall was recorded on 5 Nov 2010.
Actions taken / to be taken	The measured SS level was below baseline Action Level. It was also within the range of baseline SS concentration (1-10.5mg/L). General site cleaning & housekeeping; dismantle formwork for Bay 19 spiral ramp; erection of formwork for Bay 22 & 23 spiral ramp and horizontal drilling were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: (1) Waste water was collected to Waste Water Treatment Plant and treated before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 16-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 05-Nov-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	05-Nov-10
Time	11:06 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	11.80
Possible reason for Action or Limit Level Non-compliance	A high SS level of 10.80 was recorded at Control Station (I-2-C) and rainfall was recorded on 5 Nov 2010.
Actions taken / to be taken	The measured SS level was above baseline Action / Limit Level and beyond the range of baseline SS concentration (1-8.5mg/L). were undertaken during the measurement. General site cleaning & housekeeping; excavation (drilling holes and mucking) at vortex drop shaft; excavation (rock splitting and mucking) at Man Access Shaft; preparation for skin wall; erect platform for Air Compressor; pipe jacking (rock breaking for 13 th jacking pipe) at Portion G; dismantle formwork for pile caps at Portion G were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: (1) Waste water was collected to Waste Water Treatment Plant and treated before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 16-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 05-Nov-10

Site photo

Photo taken at I-2

Photo taken at I-2C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	08-Nov-10
Time	12:10 PM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	3.35 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.40 was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below baseline Action Level. It was also within the range of baseline SS concentration (1-10.5mg/L). General site cleaning and housekeeping; general cleaning at Bay 21 spiral ramp; dismantle formwork for Bay 22 spiral ramp; rebar fixing for Bay 23 spiral ramp; and horizontal drilling were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	Following mitigation measures were provided: (1) Waste water was collected to Waste Water Treatment Plant and treated before discharge; (2) Existing Stream has been diverted and bunded by sealed concrete block wall.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 16-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 08-Nov-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	05-Nov-10
Time	3:00 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	12.22 (higher than 130% of control station's SS)
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	9.28
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action Level and the Limit Level but higher than 130% of the control station's SS level. These measurement results are within the ranges of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan and between 3.2 and 15.3 mg/L at EPD VM14 marine water quality monitoring station towards the north of Rambler Channel. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 5 November 2010. Thus, the exceedance is considered not related to the marine works on site.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 17-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 05-Nov-10

Site photo

Photo taken at O-1-C(FT)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	05-Nov-10
Time	9:33 AM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	15.47
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	13.23
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was higher than baseline action level and the limit level. However, these measurement results are within the ranges of 3-year (2007 - 2009) SS records between 3.0 and 20.1 mg/L at EPD WM4 marine water quality monitoring station near Ma Wan. Silt curtains were setting up at the dredging area during measurement. No marine dredging activity was undertaken on 5 November 2010. Thus, the exceedance is considered not related to the marine works on site.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 17-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 05-Nov-10

Site photo

Photo taken at O-1-C(ET)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	8-Nov-10
Time	9:36 AM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	23.20
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	22.0
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was above the baseline Action/Limit Level but less than 120% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. Dredging was undertaken at Portion E. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation (high background level of SS) and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 29-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 08-Nov-10

Site photo

Photo taken at O-1-C(ET)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	8-Nov-10
Time	9:36 AM
Monitoring Location	O-1(ET)
Parameter	Turbidity
Action & Limit Levels (NTU)	11.87 / 13.44 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (NTU)	14.28
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (NTU)	14.41
Possible reason for Action or Limit Level Non-compliance	The measured turbidity level (depth-averaged) at O-1(ET) was above the baseline Action / Limit Level but less than 120% of the control station's turbidity level (O-1-C(ET)) at the same tide of the same day. Dredging was undertaken at Portion E. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation (high background level of turbidity) and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 29-Nov-10

Photographic record for exceedance of Turbidity recorded at O-1(ET) on 08-Nov-10

Site photo

Photo taken at O-1-C(ET)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	10-Nov-10
Time	11:30 AM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	13.72
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	15.78
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was between the baseline Action Level and the Limit Level, but below the control station's SS level (at O-1-C(ET)) at the same tide of the same day. Marine dredging was undertaken at the outfall basin (Portion E) on 10 November 2010. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation (high background level of suspended solids) and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 29-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 10-Nov-10

Site photo

Photo taken at O-1-C(ET)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	12-Nov-10
Time	1:30 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	16.35
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	19.35
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was above the baseline Action Level and the Limit Level, but below the control station's SS level (at O-1-C(ET)) at the same tide of the same day. Only rocks removal at seawall was undertaken at the outfall basin on 12 November 2010. Thus, the exceedance is considered to be contributed by natural variation (high level of background SS level). No further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m^3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 30-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 12-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Nov-10
Time	3:58 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	14.42
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	11.72
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was above the baseline Action Level and the Limit Level, but below 130% of the control station's SS level (at O-1-C(ET)) at the same tide of the same day. Repair of silt curtains was undertaken and no dredging was undertaken at the outfall basin on 15 November 2010. Thus, the exceedance is considered to be contributed by natural variation. No further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along the dredging boundary line and extended from the seawater level to the bottom of seabed; (2) Frame-type silt curtains had been employed for the derrick barge and all dredging operation was confined in the frame-type silt curtain; (3) Closed grab had been used and the daily dredging rate was less than 960 m3; (4) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (5) Condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (6) Operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 29-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 15-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	17-Nov-10
Time	1:40 PM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	4.05
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C). General site cleaning and housekeeping, excavation (drilling holes and rock splitting) at vortex drop shaft, excavation (drilling holes) at man access shaft, preparation for skin wall, erection of the noise enclosure for ventilation fan, pipe jacking (rock breaking for the 14th jacking pipe) at Portion G, pipe jacking (jacking for the 13th concrete pipe) at Portion G, and erection of the 60-tonne temporary steel platform at Portion G were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	The following mitigation measures had been provided: (1) Waste water was collected and diverted to the on-site waste water treatment facilities before discharge; (2) Exsiting stream had been diverted and bunded by sealed concrete block wall; (3) Existing stream had been bunded off by sand bag to prevent excavated material from washing out from the working area.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 29-Nov-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 17-Nov-10

Site photo

Site photo

Photo taken at I-2C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	19-Nov-10
Time	1:30 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	12.42
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	9.22
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. No dredging was undertaken at Portion E on 19 November 2010. Silt curtains were under modification and extension. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	None
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 30-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 19-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	22-Nov-10
Time	2:52 P.M.
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	11.65
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	8.03
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Only rock removal at the seabed was undertaken at Portion E on 22 November 2010. Silt curtains had been provided along Portion E boundary line and extended from seawater level to the bottom of seabed. Frame / floating type silt curtains had been employed for the derrick barge, and rocks removal operation was confined in the inner (frame / floating type) silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtains had been provided along Portion E boundary line and extended from seawater level to the bottom of seabed; (2) frame / floating type silt curtains had been employed for the derrick barge; (3) rocks removal operation was confined in the inner (frame / floating type) silt curtain; (4) closed grab had been used and the daily dredging rate was less than 960 m^3; (5) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (6) condition of silt curtains had been checked by the on-broad supervisor daily before any dredging activity; (7) operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the frame-type silt curtains.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 30-Nov-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 22-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Nov-10
Time	3:30 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	8.83
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	6.67
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Only rocks removal at Portion E (in which works suspended from 15:00 to 17:45 due to high tidal flow) was undertaken on 24 November 2010. Silt curtains had been provided along Portion E boundary line and extended from seawater level to the bottom of seabed. Frame / floating type silt curtains had been employed for the derrick barge, and rocks removal operation was confined in the inner (frame / floating type) silt curtain. As such, the exceedance was considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Frame / floating type silt curtain had been employed for the derrick barge and rocks removal operation was confined in the inner (frame / floating type) silt curtain; (3) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (4) condition of silt curtains had been checked by the on-broad supervisor daily before any marine works activity; (5) operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the inner (frame / floating type) silt curtains; (6) and closed grab had been used for dredging operation and the daily dredging rate was limited to less than 960 m^3.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature: 

Date: 8-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 24-Nov-10

Site photo

Site photo

Contract No. DC/2007/12
Design and Construction of Tsuen Wan Drainage Tunnel
Environmental Monitoring & Audit

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	26-Nov-10
Time	9:42 AM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	11.82
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	8.78
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Rocks removal at Portion E and noise isolation blanket next to wire drums were undertaken on 26 November 2010. Silt curtains had been provided along Portion E boundary line and extended from seawater level to the bottom of seabed. Frame / floating type silt curtains had been employed for the derrick barge, and rocks removal operation was confined in the inner (frame / floating type) silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Frame / floating type silt curtain had been employed for the derrick barge and rocks removal operation was confined in the inner (frame / floating type) silt curtain; (3) Sufficient slacks of silt curtains were allowed to ensure the curtains rested on the seabed to cope with waves and tides; (4) condition of silt curtains had been checked by the on-broad supervisor daily before any marine works activity; (5) operator had been instructed to manoeuvre the grab with due care to prevent fast lifting out of the grab from the inner (frame / floating type) silt curtains; (6) and closed grab had been used for dredging operation and the daily dredging rate was limited to less than 960 m^3.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 08-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 26-Nov-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	01-Dec-10
Time	3:35 PM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	8.85 / 10.17
Measured Level (mg/L)	2.70 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.20 mg/L was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below the baseline Action Level. It was also within the range of baseline SS concentration (1 - 10.5 mg/L). General site cleaning and housekeeping, rebar fixing at Bay 23, formwork at Bay 23, horizontal drilling and GI monitoring were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Remarks	The following mitigation measures were provided: (1) Waste water was collected and diverted to on-site waste water treatment plant for treatment before discharge; (2) Nullah and site area were separated by sealed concrete block wall and sandbags barrier.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 14-Dec-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 01-Dec-10

Site photo

Photo taken at I-1

Photo taken at I-1C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	03-Dec-10
Time	2:33 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	7.38
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	6.13
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but higher that 120% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Only rock removal was undertaken at Portion E. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed at the derrick barge and marine works was confined in the frame-type silt curtain. In addition, red tide at Tsuen Wan Hoi Hing Road seashore was reported during the week from 26 November 2010 to 3 December 2010 contributing to high SS level. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the derrick barge; (3) Rock removal operation was confined in the inner (frame/floating type) silt curtain; (4) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtain was rested on seabed; (5) Condition of silt curtain had been checked by the on-broad supervisor daily before the start of any marine works activity; (6) Operator had been instructed to handle with due care and prevent fast lifting out of the grab from the inner (frame/floating type) silt curtain; (7) Closed grab had been used for dredging operation; and (8) the daily dredging rate was limited to less than 960 m^3.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 13-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 03-Dec-10

Site photo

Photo taken at O-1-C(ET)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	01-Dec-10
Time	1:57 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	7.93
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	5.28
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Only rock fill removal from sea bed was undertaken at Portion E. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed at the derrick barge and marine works was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the derrick barge; (3) Rock removal operation was confined in the inner (frame/floating type) silt curtain; (4) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtain was rested on seabed; (5) Condition of silt curtain had been checked by the on-broad supervisor daily before the start of any marine works activity; (6) Operator had been instructed to handle with due care and prevent fast lifting out of the grab from the inner (frame/floating type) silt curtain; (7) Closed grab had been used for dredging operation; and (8) the daily dredging rate was limited to less than 960 m^3.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 16-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 01-Dec-10

Site photo

Photo taken at O-1-C(ET)

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	13-Dec-10
Time	6:20 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	9.2
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	5.18
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. No marine works was undertaken at Portion E during measurement. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (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.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 20-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 13-Dec-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	06-Dec-10
Time	1:40 PM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	3.2
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C). General site cleaning & housekeeping, excavation (drilling holes) at vortex drop shaft, excavation (drilling holes) at man access shaft, rock breaking for jacking pipe at Portion G and erection of 60 ton temporary steel platform at Portion G were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	The following mitigation measures had been provided: (1) Waste water was collected and diverted to the on-site waste water treatment facilities before discharge; (2) Existing stream had been diverted and bunded by sealed concrete block wall; (3) Existing stream had also been bunded off by sand bag to prevent excavated material from washing out from the working area.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 22-Dec-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 06-Dec-10

Site photo

Site photo

Photo taken at I-2C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Dec-10
Time	12:55 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	5.82
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	3.67
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. No marine works was undertaken on 15 December 2010. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had also been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (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.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 24-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 15-Dec-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Dec-10
Time	8:35 AM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location (mg/L)	5.53
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	3.97
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. No marine works was undertaken on 15 December 2010. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had also been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (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.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 24-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 15-Dec-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	22-Dec-10
Time	9:20 AM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	12.95
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	10.4
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 120% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Amour rock removal from the sea wall to the derrick barge at Portion E was undertaken during the measurement on 22 December 2010. As observed on site, silt curtains had been deployed along the marine works boundary line and extended from the seawater level to the seabed and floating type silt curtain had also been employed at the inner side to contain any SS dispersion within the construction site. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had also been 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 had been checked by the supervisor daily prior to marine works operation.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 30-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 22-Dec-10

Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Dec-10
Time	10:55 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	3.05
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.10 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C). General site cleaning and housekeeping, excavation (drilling holes) at vortex drop shaft and excavation (drilling holes) at man access shaft, rock breaking for 16th jacking pipe at Portion G, erection of 60ton temporary steel platform at Portion G and excavation for 750 step channel (SC) and catchpit were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	The following mitigation measures had been provided: 1) Waste water was collected to waste water treatment plant and treated before discharge; (2) existing stream has been diverted and bunded by sealed concrete block wall; and (3) existing stream had been bunded off by sand bag to prevent excavated material from washing out of the working area.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 04-Jan-11

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 24-Dec-10

Site photo

Photo taken at I-2

Photo taken at I-2C

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Dec-10
Time	10:16 AM
Monitoring Location	Squatters (I-3)
Parameter	Suspended Solid
Action & Limit Levels	6.13 / 7.23
Measured Level	4.15
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-3-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 7.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-3-C). General site cleaning and housekeeping, PB wall H-pile extension, approach channel extension; and shaft excavation were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	Following mitigation measures were provided: (1) All waste water was collected and diverted to waste water treatment plant prior to discharge; (2) existing stream has been diverted and bunded by sealed concrete block wall; and (3) excavated area had been bunded and sealed by concrete block wall to prevent any excavated material runoff from working area.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature:

Date: 04-Jan-11

Photographic record for exceedance of Suspended Solid recorded at Squatters (I-3) on 24-Dec-10

Site photo

Photo taken at I-3

Photo taken at I-3C

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Dec-10
Time	2:24 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	9.82
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	7.87
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but higher than 120% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. No amour rock removal from the sea wall to the derrick barge at Portion E was undertaken during measurement. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (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.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 04-Jan-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 24-Dec-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Dec-10
Time	1:20 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	3.2
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	2.37
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Derrick barge was under repair on that day and no marine works was undertaken at Portion E. Silt curtains werer deployed along the dredging boundary line and extended from the seawater level to the seabed. Floating type silt curtain were also deployed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (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.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 06-Jan-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 29-Dec-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Dec-10
Time	6:20 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth-averaged) at Monitoring Location	9.07
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	6.03
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. Derrick barge was under repair on that day and no marine works was undertaken at Portion E. Silt curtains werer deployed along the dredging boundary line and extended from the seawater level to the seabed. Floating type silt curtain were also deployed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (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.
Remarks	None

Prepared by: F. C. Tsang

Designation: Environmental Team Leader

Signature:

Date: 06-Jan-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 29-Dec-10

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	31-Dec-10
Time	11:05 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	2.45
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 120% of the SS level measured at the upstream control station (I-2-C). General site cleaning, housekeeping and temporary traffic arrangement (TTA), excavation (drilling holes) at vortex drop shaft, excavation (drilling holes and rock spilling) at man access shaft, closed formwork for dry flow channel, rock breaking for 16th jacking pipe at Portion G; erection of 60 ton temporary steel platform at Portion G and excavation for 750 step channel (SC) and catchpit were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	The following mitigation measures had been provided: (1) Waste water was collected to waste water treatment plant and treated before discharge; (2) existing stream has been diverted and bunded by sealed concrete block wall; and (3) existing stream had been bunded off by sand bag to prevent excavated material from washing out of the working area.

Prepared by: Fan Cheong Tsang

Designation: Environmental Team Leader

Signature: 

Date: 07-Jan-11

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 31-Dec-10

Site photo

Photo taken at I-2