



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318 E-mail : etl@ets-testconsult.com  
Fax : 2695 3944 Web site : www.ets-testconsult.com

# ***HKPFH Operation Limited***

**Contract No.: CV/2013/06  
Handling of Surplus Public Fill  
(2014-2016)**

**TUEN MUN AREA 38 FILL BANK  
MONTHLY EM&A REPORT NO.25  
(JANUARY 2016)**

Prepared by:

  
LAW, Sau Yee  
Senior Environmental Officer

Checked by:

  
LAU, Chi Leung  
Environmental Team Leader

Issue Date: 15 February 2016

Report No.: ENA60389



ENVIRON

Ref.: CEDPFRSFEM01\_0\_0572L.16

17 February 2016

By E-mail and Fax No.: 2695 3944

ETS-Testconsult Limited  
8/F, Block B  
Veristrong Industrial Centre  
34-36 Au Pui Wan Street  
Fo Tan, Hong Kong

Attention: Mr. C L Lau

Dear Mr. Lau,

**Re: Contract No. CV/2013/06  
Handling of Surplus Public Fill (2014 – 2016)  
Monthly EM&A Report (No. 25) for January 2016 for the Tuen Mun Area 38 Fill  
Bank**

Reference is made to your submission of the draft Monthly EM&A Report for January 2016 for the TM Area 38 Fill Bank received by E-mail on 15 February 2016 and the subsequent revision on 16 February 2016.

We are pleased to inform you that we have no further comment on the captioned report.

Thank you very much for your attention and please do not hesitate to contact our Jason Lai or the undersigned should you have any queries.

Yours sincerely,

Tony Cheng  
Independent Environmental Checker

c.c. CEDD                      Attn: Mr. Terry Chock / Mr. Simon Leung                      Fax No.: 2714 0113  
HKPFHJV                      Attn: Mr. Eric Wan    Fax No.: 2744 6937

Q:\Projects\CEDPFRSFEM01\02 Project Management\02 Corr\CEDPFRSFEM01\_0\_0572L.16.doc



<b>TABLE OF CONTENTS</b>		<b>Page</b>
<b>EXECUTIVE SUMMARY</b>		
<b>1.0</b>	<b>INTRODUCTION</b>	<b>1</b>
<b>2.0</b>	<b>PROJECT INFORMATION</b>	
	2.1 Construction Programme	1
	2.2 Project Organization and Management Structure	1
	2.3 Contact Details of Key Personnel	1
<b>3.0</b>	<b>CONSTRUCTION PROGRESS IN THIS REPORTING MONTH</b>	<b>2</b>
<b>4.0</b>	<b>AIR QUALITY MONITORING</b>	
	4.1 Monitoring Requirement	2
	4.2 Monitoring Equipment	2
	4.3 Monitoring Parameters, Frequency and Duration	2
	4.4 Monitoring Locations and Schedule	2
	4.5 Monitoring Methodology	3
	4.6 Action and Limit levels	3 – 4
	4.7 Event-Action Plans	4
	4.8 Results and Observations	4
<b>5.0</b>	<b>MARINE WATER QUALITY MONITORING</b>	
	5.1 Monitoring Requirements	4
	5.2 Monitoring Locations	4
	5.3 Monitoring Parameters and Frequency	4
	5.4 Monitoring Methodology and Equipment Used	5 – 6
	5.5 Action and Limit Levels	6
	5.6 Event and Action Plan	7
	5.7 Monitoring Duration and Period in this reporting month	7
	5.8 Marine Water Monitoring Results	7
<b>6.0</b>	<b>NOISE MONITORING</b>	
	6.1 Monitoring Requirements	7
	6.2 Monitoring Equipment	8
	6.3 Monitoring Parameters, Duration and Frequency	8
	6.4 Monitoring Locations and Period	8
	6.5 Monitoring Procedures and Calibration Details	8 – 9
	6.6 Action and Limit levels	9
	6.7 Event-Action Plans	9
	6.8 Results and Observation	9
<b>7.0</b>	<b>ENVIRONMENTAL AUDIT</b>	
	7.1 Weekly Site Inspection	9
	7.2 Review of Environmental Monitoring Procedures	10
	7.3 Status of Environmental Licensing and Permitting	10
	7.4 Implementation Status	10 – 11
<b>8.0</b>	<b>LANDSCAPE AND VISUAL</b>	<b>11 – 12</b>
<b>9.0</b>	<b>WASTE MANAGEMENT</b>	
	9.1 Summary of Waste disposed of in this month	12
	9.2 Advice on the Solid and Liquid Waste Management Status	12 – 13
<b>10.0</b>	<b>ENVIRONMENTAL NON-CONFORMANCE</b>	
	10.1 Summary of air quality, noise and marine water quality	13
	10.2 Summary of Environmental Complaints	13
	10.3 Summary of Notification of Summons and Prosecution	13
<b>11.0</b>	<b>CONCLUSIONS AND RECOMMENDATIONS</b>	<b>13 – 14</b>
<b>12.0</b>	<b>FUTURE KEY ISSUE</b>	<b>14</b>



## APPENDIX

A	Organization Chart and Lines of Communication
B1	Calibration Certificates for Impact Air Quality Monitoring Equipments
B2	Impact Air Quality Monitoring Results
B3	Graphical Plots of Impact Air Quality Monitoring Data
C1	Calibration Certificates for Impact Marine Water Quality Monitoring Equipments
C2	Impact Marine Water Quality Monitoring Results
C3	Graphical Plots of Impact Marine Water Quality Monitoring Data
D1	Calibration Certificates for Impact Noise Monitoring Equipments
D2	Impact Noise Monitoring Results
D3	Graphical Plots of Impact Noise Monitoring Data
E	Weather Condition
F	Event-Action Plans
G	Construction Programme
H	Weekly ET's Site Inspection Record
I	Implementation Schedule of Mitigation Measures
J	Site General Layout Plan
K	QA/QC Results of Laboratory Analysis
L	Complaint Log
M	Complaint Investigation Reports

## FIGURES

Figure 1	Locations of Air Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank
Figure 2	Locations of Water Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank
Figure 3	Locations of Noise Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank

## TABLES

2.1	Contact Details of Key Personnel
4.1	Air Quality Monitoring Equipment
4.2	Monitoring parameters, duration and frequency of air quality monitoring
4.3	Action and Limit levels for 24-hr TSP and 1-hr TSP
5.1	Monitoring Parameters and Frequency of the marine water
5.2	Summary of testing procedure
5.3	Details of Water Quality Monitoring Equipment (In-site measurement)
5.4	Water Quality Action and Limit Levels
5.5	Time Schedule of Water Quality Monitoring
5.6	Summary of Marine Water Quality Exceedances in this reporting month
6.1	Noise Monitoring Equipment
6.2	Duration, Frequencies and Parameters of Noise Monitoring
6.3	Action and Limit Levels for noise monitoring
7.1	Key Findings of Weekly ET Site Inspections in this reporting month
7.2	Summary of environmental licensing and permit status
7.3	Summary of Environmental Complaints and Prosecutions
9.1	Actual amounts of waste generated in this reporting month



## **EXECUTIVE SUMMARY**

This monthly Environmental Monitoring and Audit (EM&A) report No.25 was prepared by Environmental Team (ET) of ETS-Testconsult Ltd (ETL) for the “Contract No. CV/2013/06 Handling of Surplus Public Fill (2014-2016) – Tuen Mun (TM) Area 38 Fill Bank” (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at TM Area 38 in January 2016.

### **Site Activities**

As informed by the Contractor, the site activities in this reporting period were as below:

1. Operation of the TM38 Fill Bank .
2. Transferring public fill to vessel and delivering to Taishan and other parties

### **Environmental Monitoring Progress**

The summary of the monitoring activities in this monitoring month is listed below:

- 24-hour TSP Monitoring: 6 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 15 Occasions at 2 designated locations
- Noise, Daytime: 8 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 13 Occasions at 4 designated locations
- Weekly-site inspection: 4 Occasions

### **Air Monitoring**

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

### **Noise Monitoring**

No exceedance of Action and Limit level for noise monitoring was recorded in the reporting month.

### **Marine Water Quality Monitoring**

No exceedance of action and limit level was recorded in the reporting month.

### **Weekly Site Inspection**

In general, performance on environmental mitigation measures implemented was found to be satisfactory in this reporting month. The major findings observed during site inspections are presented in the Section 7.0.

### **Environmental Complaints, Notification of summons and successful prosecutions**

Nine complaints were received in this reporting month. After investigation, only one complaint (Log No.17) was considered to be invalid since Lung Kwu Tan Road is outside the Public Cleaning Areas of Tuen Mun Area 38 Fill Bank. The details of the complaints refer to Clause 7.4.3 and Appendix L.

No notification of summon and prosecution with respect to environmental issues was received in this month.

### **Future Key Issues**

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- Wastewater and surface runoff from the site discharged into nearby water body; and
- Storage and usage of chemicals / fuel and chemical waste / waste oil.

## 1.0 INTRODUCTION

HKPFH Operation Limited (HKPFH) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2013/06 – Handling of Surplus Public Fill (2014-2016) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

In accordance with the Condition 5 of Part C of Environmental Permit (No.: EP-210/2005/B) (the EP), an EM&A programme as set out in the Project Profile should be implemented.

The EM&A programme requires environmental monitoring for air quality, water quality and environmental site inspections for air quality, water quality, landscape and visual, and waste management. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans;
- Environmental mitigation measures, as recommended in the Project Profile; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in May 2003 by Stanger Asia Ltd. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tuen Mun Area 38 in January 2016.

## 2.0 PROJECT INFORMATION

### 2.1 Construction Programme

Details of construction programme are shown in Appendix G.

### 2.2 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

### 2.3 Contact Details of Key Personnel

The key personnel contact names and telephone numbers are shown in Table 2.1.

Table 2.1 Contact Details of Key Personnel

Organization	Name of Key Staff	Project Role	Tel. No.	Fax No.
CEDD	Simon Leung, Terry Chock, Patrick Ng, James Sze, Phoebe Tang	Engineer's Representative	2762 5555	2714 0113
IEC (Ramboll Environ)	Tony Cheng	IEC	3465 2888	3465 2899
Contractor (HKPFH)	K W Li	Project Manager	9750 6438	2744 6937
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944



### 3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

As informed by the Contractor, the activities in the reporting month include:

1. Operation of the TM38 Fill Bank .
2. Transferring public fill to vessel and delivering to Taishan and other parties

### 4.0 AIR QUALITY MONITORING

#### 4.1 Monitoring Requirement

1-hr and 24-hr TSP levels were monitored in the reporting month. Table 4.3 shows the Action and Limit Levels for the environmental monitoring works.

#### 4.2 Monitoring Equipment

Both 1-hour and 24-hour TSP air quality monitoring was performed using a GMWS2310 High Volume Air Sampler (HVS) located at each of the designated monitoring station. Table 4.1 summarizes the equipment used in the air quality monitoring programme. Copies of the calibration certificates for the HVS and calibrator are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

<i>Equipment</i>	<i>Model and Make</i>
<i>HVS</i>	<i>Greasby GMWS2310</i>
<i>Calibrator</i>	<i>Tisch TE-5025A</i>

#### 4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2 Monitoring parameters, duration, frequency of air quality monitoring

<i>Parameter</i>	<i>Duration</i>	<i>Frequency</i>
<i>24-hr TSP</i>	<i>24 hr</i>	<i>Once per six days</i>
<i>1-hr TSP</i>	<i>1 hr</i>	<i>Three times per six days</i>

#### 4.4 Monitoring Locations and Schedule

In accordance with the Project Profile, two air-quality monitoring stations, namely TM-A1 and TM-A2, were selected for the 1-hr TSP and 24-hr TSP sampling.

Since the area for existing air monitoring station TM-A2 near Tipping Hall No.1 was handed over to EcoPark, air monitoring station TM-A2 was cancelled and the air monitoring was carried out at an alternative air monitoring station TM-RA2 (refer to Figure 1 attached) from 28 October 2008.

The locations of monitoring stations are shown in Figure 1.

During the reporting month, 1-hr and 24-hr TSP monitoring were carried out as the schedule. The details for 24-hr and 1-hr TSP monitoring carried out in this reporting month are summarized in Appendix B2.

#### 4.5 Monitoring Methodology

##### ***Both 1-hr and 24-hr air quality monitoring (High Volume Sampler)***

###### Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets were employed for both 1-hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

###### Installation

The installation of HVS refers to the requirement stated in Appendix D2 "General Technical Requirements of Environmental Monitoring" in the Environmental Monitoring and Audit Guidelines for Development Projects in Hong Kong published by EPD.

###### Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6m<sup>3</sup>/min and 1.7m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50. The flow rate is indicated on the flow rate chart.
- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 1 hour / 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recorded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of 25°C ± 3°C and the relative humidity (RH) <50% ±5%.

###### Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

##### ***Wind Data Monitoring***

Wind data included wind speed and wind direction were directly extracted from Tuen Mun Station of Hong Kong Observatory during this reporting month. The wind data are presented in Appendix E.

#### 4.6 Action and Limit Levels

Table 4.3 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.





Table 4.3 Action and Limit Levels for 24-hr TSP and 1-hr TSP

Monitoring Location	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )		1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	
	Action Level	Limit Level	Action Level	Limit Level
TM-A1	192	260	344	500
TM-RA2 *	192	260	344	500

Remark (\*): Since the area for existing air monitoring station TM-A2 near Tipping Hall No.1 was handed over to EcoPark, air monitoring station TM-A2 was cancelled and the air monitoring was carried out at an alternative air monitoring station TM-RA2 from 28 October 2008. Since dust monitoring stations TM-A2 and TM-RA2 are located close to the major dust emission sources and no significant difference between them on the prevailing meteorological conditions, the baseline data from TM-A2 can also be valid in the case of TM-RA2.

#### 4.7 Event-Action Plans

Please refer to Appendix F for details.

#### 4.8 Results and Observations

All monitoring data of both 1-hr and 24-hr TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hr and 24-hr TSP monitoring results for the reporting month is shown in Appendix B3. Wind data, including wind speed and wind direction, are annexed in Appendix E.

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of wheel washing facilities and road dampening by water bowsers on the main haul roads and unpaved areas.

### 5.0 MARINE WATER QUALITY MONITORING

#### 5.1 Monitoring Requirements

In accordance with the Project Profile, impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-flood and mid-ebb tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed) at two control monitoring stations (TM-FC1 and TM-FC2) and two impact monitoring stations (TM-FM1 and TM-FM2).

#### 5.2 Monitoring Locations

As stipulated in the EM&A requirement, there were four monitoring stations undertaken during the impact monitoring. Figure 2 shows the locations of the marine water quality monitoring stations.

#### 5.3 Monitoring Parameters and Frequency

Monitoring of the marine water quality parameters and frequency are listed in Table 5.1.

Table 5.1 Monitoring Parameters and Frequency of the marine water

Monitoring Station	Parameter	Frequency	No. of Depths
Control Stations: TM-FC1 (Mid-ebb) and TM-FC2 (Mid-flood)  Impact Stations: TM-FM1 and TM-FM2	Depth (m)	3 days/week, 2 tides/day	3 (Surface, mid- depth & bottom)
	Temperature ( $^{\circ}\text{C}$ )		
	Dissolved Oxygen (mg/L and % saturation)		
	Turbidity (NTU)		
	Salinity (ppt)		
	Suspended solids (mg/L)		



## 5.4 Monitoring Methodology and Equipment Used

### For Location of the monitoring stations

#### **Global Positioning System (GPS)**

A hand-held digital GPS was used to identify the designated monitoring stations prior to water sampling.

### For Water Depth measurement

#### **Echo Sounder**

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

### For In-situ Water Quality Measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals or sometimes longer throughout all stages of the water quality monitoring.

#### **Dissolved Oxygen, Salinity and Temperature Measuring Equipment**

A portable, weatherproof dissolved oxygen & salinity measuring instrument, which complete with cable, sensor and DC power source (e.g. YSI 85 or equivalent) was used for measuring:

- a dissolved oxygen level in the range of 0-20 mg/L and 0-200 % saturation;
- a salinity in range 0-40 ppt; and
- a temperature of 0-45 degree Celsius

A membrane electrode with automatic temperature compensation complete with a cable was installed.

#### **Turbidity Measurement Instrument**

A portable and weatherproof turbidity meter (HACH model 2100Q) was used during impact monitoring. It has a photoelectric sensor capable of measuring turbidity between 0-1000 NTU. Response of the sensor was checked with certified standard Turbidity solutions before the start of measurement.

### For Water Sampling and Sample Analysis

In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. At each sampling depth, duplicate readings of dissolved oxygen content and turbidity were taken. The probes were retrieved out of the water after first measurement and then redeployed for the second measurement. The difference between the two readings of each set was more than 25% of the value of the first reading while a third measurement would be conducted to ensure data precision.

#### **Water Sampler**

A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The both opening ends of the sampler were then closed accordingly by dead weight and water samples were collected.

#### **Water Container**

The sample container, made by high-density polythene, was rinsed with a portion of the water sample. The water sample was then transferred to the container, labeled with a unique sample ID and sealed with a screw cap. The water samples were stored in a cool box maintained at 4°C. The water samples were then delivered to a local HOKLAS-accredited laboratory (Environmental Laboratory, ETS-Testconsult Ltd, HOKLAS Registration No. 022) on the same day for analysis.



The summary of testing method of testing parameter as recommended by EIA or required by EPD, with the QA/QC results in accordance with the requirement of HOKLAS or international accredited scheme is shown in Table 5.2. For the QA/QC procedures, one QC sample, one duplicate sample and one sample spike of every batch of 20 samples were analysis. The QA/QC results are summarized in Appendix K.

Table 5.2 Summary of testing procedure

Laboratory Analysis	Testing Procedure	Detection Limit
Total suspended solids	In house method based on APHA 19 <sup>th</sup> ed 2540D	1.0 mg/L

**In-situ measurement**

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before the start of measurement.

At each measurement/sampling depth, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. For turbidity measurement, the sample was collected by using sampler and then transferred to the cell. The reading of turbidity of the sample was directly recorded from the Turbidimeter (HACH 2100Q) after inserting the cell to the Turbidimeter. For DO, DOS and Salinity, measurements were conducted three days per week at both mid-ebb and mid-flood tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed). The duplicate measurements were averaged if the difference was not greater than 25%. If the difference is greater than 25%, repeat measurement will be required to be carried out.

Table 5.3 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix C1.

Table 5.3 Details of Marine Water Quality Monitoring Equipment (In-site measurement)

Parameter	Model	Date of Calibration	Due Date	Equipment No.
Coordinate of Monitoring stations	Garmin eTrex 10	-----	-----	ET/EW/005/04
Dissolved Oxygen (Saturation), Temperature, Salinity	YSI Dissolved Oxygen, Salinity & Temperature Meter, YSI Pro 2030	30/11/15	01/03/16	ET/EW/008/006 *
Turbidity	HACH Model 2100Q Turbid Meter	30/12/15	29/03/16	ET/0505/011 *
Water Depth	Speedtech SM-5	-----	-----	ET/EW/002/06

Remark:(\*) indicates the instrument should be calibrated on use.

**5.5 Action and Limit Levels**

The water quality criteria, namely Action and Limit (A/L) levels are presented in the table below.

Table 5.4 Water Quality Action and Limit Levels

Parameter	Action Level	Limit Level
DO (mg/L)	<u>Surface &amp; Middle</u> <4.78 mg/L (5%-ile of baseline data) <u>Bottom</u> <4.16 mg/L (5%-ile of baseline data)	<u>Surface &amp; Middle</u> <4.00 mg/L (1%-ile of baseline data) <u>Bottom</u> <2.00 mg/L
SS (mg/L) (Depth-averaged)	>120% of the upstream control station's SS at the same tide on the same day	>130% of the upstream control station's SS at the same tide on the same day
Turbidity (NTU) (Depth-averaged)	>120% of the upstream control station's turbidity at the same tide on the same day	>130% of the upstream control station's turbidity at the same tide on the same day



## 5.6 Event and Action Plan

Please refer to the Appendix F for details.

## 5.7 Monitoring Duration and Period in this reporting month

Table 5.5 is the time schedule for the marine water quality monitoring events that were conducted in this reporting period. Duration of marine water quality monitoring is detailed in Appendix C2.

Table 5.5 Time Schedule of Marine Water Quality Monitoring

January 2016						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Remark (▼) : Marine water quality monitoring carried out by ET

## 5.8 Marine Water Quality Monitoring Results

The impact water quality measurement results are detailed in Appendix C2. Appendix C3 presents the water quality monitoring data and graphical presentations of monitoring results respectively.

The summary of marine water quality exceedances is shown in Table 5.6.

Table 5.6 Summary of Marine Water Quality Exceedances in this reporting month

Tide	Station	Exceedance Level	DO		Turbidity	SS	Total
			Surface & Middle	Bottom			
Mid-Ebb	TM-FM1	Action	0	0	0	0	0
		Limit	0	0	0	0	0
	TM-FM2	Action	0	0	0	0	0
		Limit	0	0	0	0	0
Mid-Flood	TM-FM1	Action	0	0	0	0	0
		Limit	0	0	0	0	0
	TM-FM2	Action	0	0	0	0	0
		Limit	0	0	0	0	0
Total		Action	0	0	0	0	0
		Limit	0	0	0	0	0

According to the summary of marine water monitoring results, no exceedance of action and limit level was recorded in this reporting month.

## 6.0 Noise Monitoring

### 6.1 Monitoring Requirements

Noise monitoring was conducted at 2 designated monitoring stations as specified in the Sections 26.10 to 26.12 of the Particular Specification for good site practice.

The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting month are presented in this section.



## 6.2 Monitoring Equipment

An Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ). It complies with International Electro Technical Commission Publications 651:1979 (Type1) and 804:1985 (Type1), and speed in m/s was used to monitor the wind speed.

Table 6.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix D1.

Table 6.1 Noise Monitoring Equipment

Equipment	Model
Sound Level Meter	Rion NL-31 / Rion NL-52
Calibrator	Rion NC-73 / Castle GA607

## 6.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 6.2.

Table 6.2 Duration, Frequencies and Parameters of Noise Monitoring

Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	$L_{eq}$ , $L_{10}$ , $L_{90}$	Twice per week

## 6.4 Monitoring Locations and Period

Since Lands Dept did not approve to carry out noise monitoring at their own area where the noise monitoring stations TM-N1 and TM-N2 located due to the security, noise monitoring carried out at two noise monitoring stations TM-RN1 and TM-RN2 (refer to the figure 3 attached) from 18 December 2007.

The noise monitoring locations, TM-RN1 and TM-RN2 are shown in Figure 3. The noise measurement at TM-RN1 and TM-RN2 are façade measurement.

The noise-monitoring period of monitoring stations is summarized in Appendix D2.

## 6.5 Monitoring Procedures and Calibration Details

### Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - Frequency weighting: A
  - Time weighting : Fast
  - Time measurement : 30 min
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB(A), the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements. Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.



### Maintenance and Calibration

- The microphone head of the sound level meter and calibrator are cleaned with soft cloth in quarterly intervals.
- The meter is sent to the supplier or HOKLAS laboratory to check and calibrated in yearly intervals.

### 6.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 6.3.

Table 6.3 Action and Limit Levels for noise monitoring

<i>Time Period</i>	<i>Action *</i>	<i>Limit *</i>
0700-1900 hrs on normal weekdays	When one documented complaint is received	65 dB(A)

### 6.7 Event-Action Plans

Please refer to the Appendix F for details.

### 6.8 Results and Observation

The detail of the noise monitoring is provided in Appendix D2. Graphical presentation of the monitoring result for the reporting month is shown in Appendix D3.

Since no documented complaint on noise issue was received in this reporting month, no Action Level exceedance was recorded. Besides, no exceedance in Limit Level was recorded according to the result from Day-time noise monitoring.

The major sources of noise pollution observed in this reporting month were noise from the traveling dump trucks and from the operation of site machines.

## 7.0 ENVIRONMENTAL AUDIT

### 7.1 Weekly ET Site Inspection

Weekly site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, four weekly site inspections were conducted on 07, 14, 21 and 28 January 2016. Summaries of key findings of weekly ET site inspections in this month are described in Table 7.1.

Table 7.1 Key Findings of Weekly ET Site Inspections in this reporting month

<i>Date</i>	<i>Key Findings</i>	<i>Action(s) Taken recommended by ET</i>	<i>Action(s) Taken by the Contractor during the site audit</i>	<i>Rectification Status by ET</i>
07 January 2016	Mud and silt were accumulated inside the main drainage channel. (New item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	----	Follow-up
14 January 2016	Mud and silt were accumulated inside the main drainage channel. (Previous item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	----	Follow-up
21 January 2016	Mud and silt were accumulated inside the main drainage channel. (Previous item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	----	Follow-up
	Mud and silt were accumulated inside the U-channel near CEDD site office. (New item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	----	Follow-up



Date	Key Findings	Action(s) Taken recommended by ET	Action(s) Taken by the Contractor during the site audit	Rectification Status by ET
28 January 2016	Mud and silt were accumulated inside the main drainage channel. (Previous item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	---	Follow-up
	Mud and silt were accumulated inside the U-channel near CEDD site office. (Previous item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	The contractor provided manpower to clean up the mud and silt accumulated inside the U-channel near CEDD site office.	Closed
	Mud and silt were noted accumulated inside the drainage channel near site exit. (New item)	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	---	Follow-up
	Ponding water was found on the main road near wheel washing bay. (New item)	To clear the ponding water and maintain the road properly to prevent accumulation of water.	---	Follow-up

## 7.2 Review of Environmental Monitoring Procedures

The monitoring works conducted by the ET were inspected internally on a regular basis. The following observations have been recorded for the monitoring works:

### Air Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and general weather condition on the monitoring day.

### Water Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations, which might affect the results; and
- Major water pollution sources were identified and recorded.

### Noise Monitoring

- The monitoring team recorded the observations around the monitoring station, which might affect the results.
- Major noise sources were identified and recorded.

## 7.3 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 7.2.

Table 7.2 Summary of environmental licensing and permit status

Description	Permit No.	Valid Period		Section
		From	To	
Environmental Permit	EP-210/2005/B	08/04/13	---	Issued
Marine Dumping Permit	EP/MD/16-150	01/01/16	31/03/16	Approval for dumping 3,800,000 tons (approximately equal to 2,111,111 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan



Description	Permit No.	Valid Period		Section
		From	To	
Chemical Waste Producer	5296-421-H3555-01	21/01/14	---	Spent battery containing heavy metals and spent lubricating oil
Effluent Discharge License	WT00018973-2014	23/05/14	31/05/19	Discharge of Industrial Trade Effluent arising from public fill reception facilities, screen and sedimentation tank
Billing Account for Waste Disposal	7018998	---	---	---

## 7.4 Implementation Status

### 7.4.1 Implementation Status of Environmental Mitigation Measures

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix I. Most of the necessary mitigation measures were implemented properly.

### 7.4.2 Implementation Status of Event and Action Plan

No exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting month. Apart from this, there was no exceedance on noise recorded in this month.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in this reporting month.

Hence, no further action was required to be implemented.

### 7.4.3 Implementation Status of Environmental Complaint, Notification of Summon and Successful Prosecution Handling

Nine complaints were occurred in this reporting month. The details of the complaints are as below:

- One complaint received on 16 January 2016 (10:29:19), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1773873559) against the rocks and debris dropped from the dump trucks and deposited on the road surface on Lung Mun Road (to Lung Kwu Tank);
- One complaint received on 16 January 2016 (11:52:36), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774073373) against the soil and sand dropped from the dump trucks and deposited on the road surface at Lung Mun Road from Tuen Mun Area 38 Fill Bank (TM38) to Lung Kwu Tank;
- One complaint received on 16 January 2016 (12:42:56), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774259372) against the soil and sand dropped from the dump trucks and deposited near lamp post (FC1778A – FC1808A) at Lung Mun Road;
- One complaint received on 16 January 2016 (12:44:19), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774296204) against the rocks, soil and sand deposited at Lung Mun Road near Tuen Mun Area 38 Fill Bank (TM38);
- One complaint received on 16 January 2016 (17:36:42), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774986539) against the construction waste dumped from the trucks from No.201 Lung Mun Road (River Trade Terminal) to EcoPark;
- One complaint received on 21 January 2016 (09:55:04), which was forwarded to ET on 25 January 2016, from public (1823 Case # 2-1792038360) against the rocks and mud dumped along Lung Mun Road (River Trade Terminal to EcoPark);
- One complaint received on 23 January 2016 (12:22:45), which was forwarded to ET on 26 January 2016, from public (1823 Case # 2-1800289518) against the rocks and debris dumped along Lung Mun Road (River Trade Terminal to EcoPark);
- One complaint received on 23 January 2016 (13:04:51), which was forwarded to ET on 26 January 2016, from public (1823 Case # 2-1800182690) against the sands dumped at Lung Kwu Tank Road to EcoPark.
- One complaint received on 27 January 2016 (16:43:26), which was forwarded to ET on 02 February 2016, from public (1823 Case # 2-1815145897) against the mud noted at 202 Lung Mun Road (near River Trade Terminal).





After investigation, only one complaint (Log No.17) was considered to be invalid since Lung Kwu Tan Road is outside the Public Cleaning Areas of Tuen Mun Area 38 Fill Bank. Due to the complaints, the Contractor has implemented control measures and improvement has been observed. The Contractor replied to take more effort on cleaning of site haul road and public road, and also site truck before leaving the site. Complaint Investigation reports of these events have been prepared and submit to IEC and Contractor by ET. Appendix L presents the complaint log and Appendix M shows the complaint investigation reports of these events.

No notification of summon and prosecution with respect to environmental issues was received in this monitoring month. A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 7.3.

Table 7.3 Summary of Environmental Complaints and Prosecutions

Complaints logged		Summons served		Successful Prosecution	
January 2016	Cumulative	January 2016	Cumulative	January 2016	Cumulative
9	18	0	0	0	0

## 8.0 LANDSCAPE AND VISUAL

Landscape and visual site audit was carried out on a weekly basis to monitor environmental issues in order to ensure that all mitigation measures were implemented timely and properly. The findings in this reporting month were:

- The maximum stockpiling height at the Fill Bank was limited to a maximum of +40 mPD;
- The Contractor hydroseeded the outer slopes of the Fill Bank as far as practicable;
- The Contractor removed the stockpile of public fill in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable; and
- Lighting was set to minimize night-time glare.

## 9.0 WASTE MANAGEMENT

### 9.1 Summary of Waste disposed of in this month

The actual amounts of different types of waste disposed of by the activities of the Project in the month are shown in Table 9.1

Table 9.1 Actual amounts of Waste generated in this reporting month

Waste Type	Actual Amount	Disposal Locations
Public Fill (m <sup>3</sup> )	0	Tuen Mun 38 Fill Bank
C&D Waste (kg)	0	WENT Landfill
Chemical Waste (kg/L)	0	Collected by licensed collector

### 9.2 Advice on the Solid and Liquid Waste Management Status

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials used for this cleaning works as chemical waste.

The drain outlet of all the bunded areas should be plugged properly. Besides, pre-cast drip trays were provided for oil drums at several areas, such as workshop and chemical storage area. The Contractor should collect and dispose of any stagnant water accumulated in the concrete bunding and drip trays and handle them as chemical waste.

The Contractor should use suitable containers with proper labels to store chemical wastes in accordance with Code of Practice on the Packaging, Labeling and Storage of Chemical Waste. The Contractor should also advise their workers of the proper procedures in handling the chemical waste. All the trip tickets for chemical waste disposal should be properly kept in the site office.



The Contractor was reminded to increase the frequency of inspection and cleaning of the site drainage system, including permanent desilting chambers, desilting facilities, oil interceptor bypass tank and all the trapezoidal channels. Moreover, the Contractor should apply approved pesticides in the stagnant water ponds.

All the runoff from the parking area should be pumped to the desilting facilities and oil interceptors to remove suspended solids and oil & grease prior to discharge.

## 10.0 ENVIRONMENTAL NON-CONFORMANCE

### 10.1 Summary of air quality, noise and marine water quality

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in the reporting month.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting month.

### 10.2 Summary of Environmental Complaints

Nine complaints were occurred in this reporting month.

### 10.3 Summary of Notification of Summons and Prosecution

There was no notification of summon and prosecution respect to environmental issues registered in this reporting month.

## 11.0 CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

Impact monitoring of air quality, noise and water quality were carried out at designated locations in this reporting month.

According to the summary of air monitoring results, no exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in the reporting month.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting month.

According to the weekly site inspections carried out in this reporting month, the Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems and automatic wheel washing facilities, dampening of haul roads and stockpiling areas.

Nine complaints were received in this reporting month.

No prosecution or notification of summons was received in this reporting month.

### Recommendations

According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

#### **Air Quality**

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;



- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on all paved haul roads and public roads especially outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water bowser;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

#### **Noise**

- Conduct noisy activities at a farther location from the NSRs.

#### **Water Quality**

- Maintain the drainage system, including the trapezoidal channels and permanent desilting chambers regularly; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

#### **Chemical and Waste Management**

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

#### **Landscape and Visual**

- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location; and
- Maintain the hydroseeded slopes properly.

## **12.0 FUTURE KEY ISSUES**

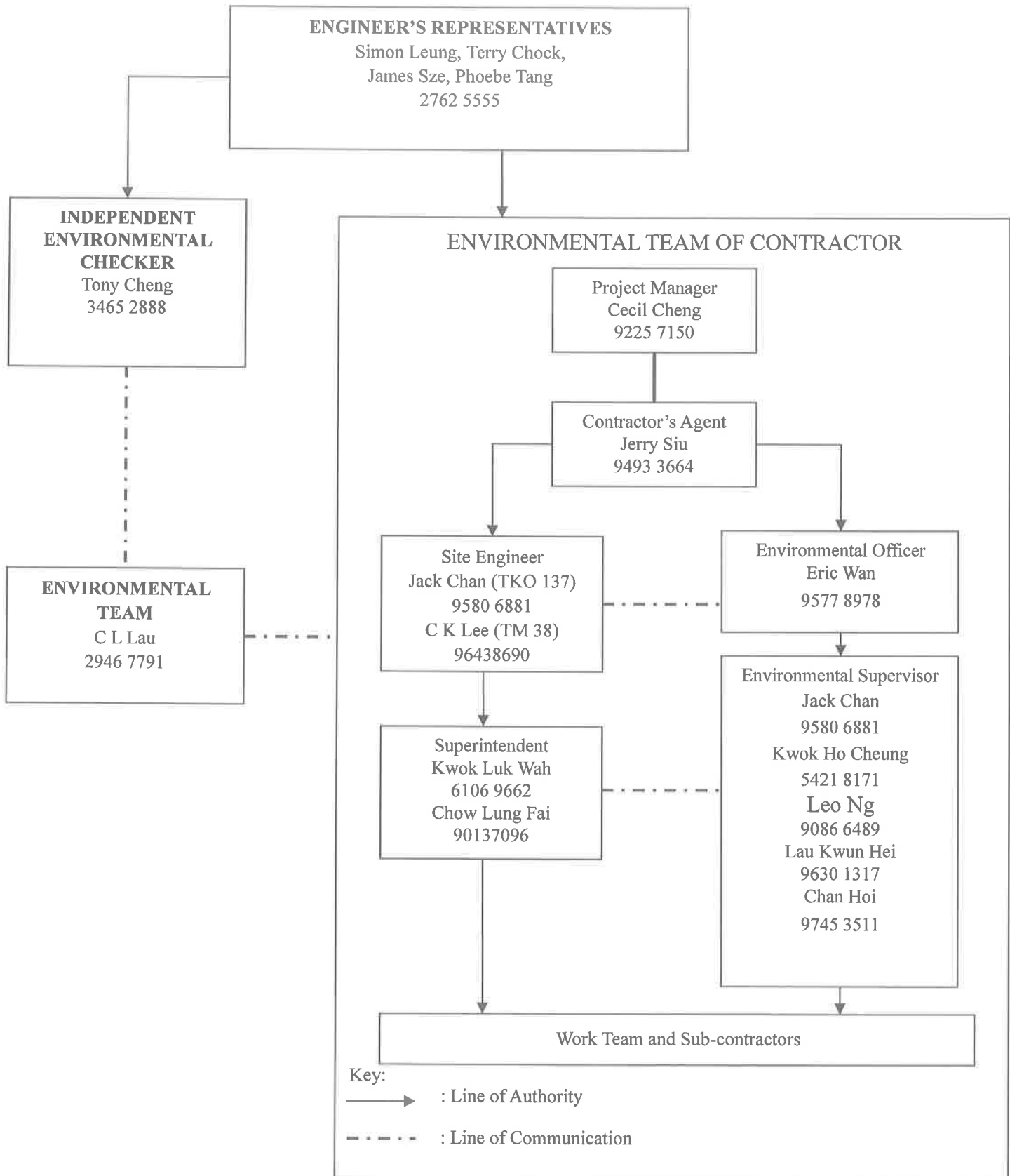
Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site and
- Wastewater and surface runoff from the site discharged into nearby water body.

- END OF REPORT -

## **Appendix A**

### **Project Organization Chart**



## **Appendix B1**

### **Calibration Certificates for Impact Air Quality Monitoring Equipments**



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318 E-mail : etl@ets-testconsult.com  
Fax : 2695 3944 Web site : www.ets-testconsult.com

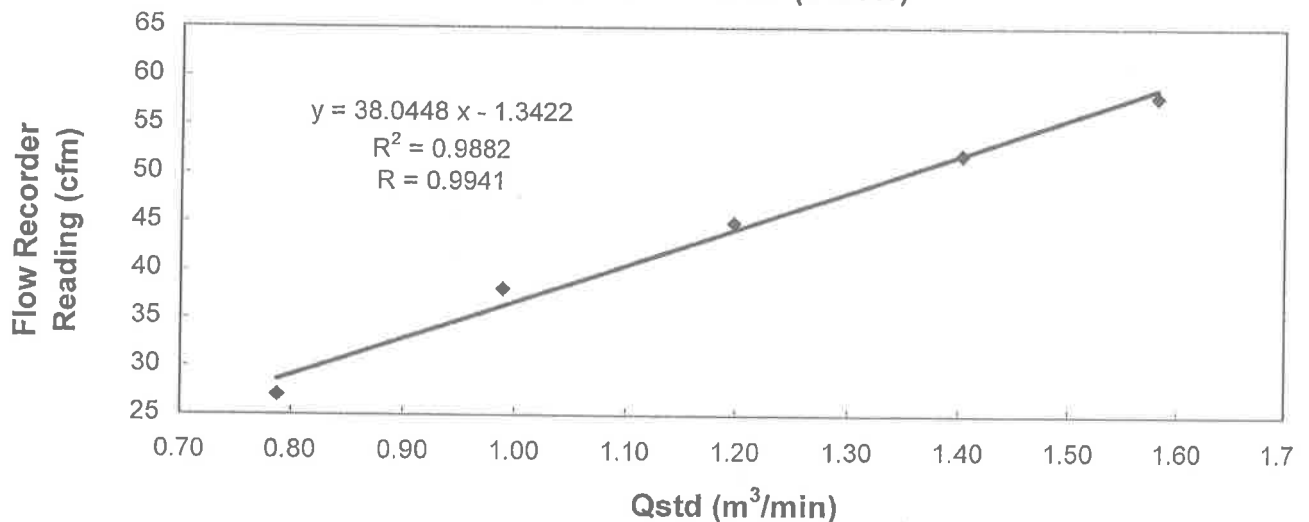
Calibration Report  
of  
High Volume Air Sampler

**Manufacturer** : Graseby GMW Date of Calibration : 22 December 2015  
**Serial No.** : 10347 ( ET / EA / 003 / 06) Calibration Due Date : 21 February 2016  
**Method** : Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Manual

**Results**

Flow recorder reading (cfm)	58	52	45	38	27
Qstd (Actual flow rate, m <sup>3</sup> /min)	1.58	1.40	1.20	0.99	0.79
Pressure :	763.56 mm Hg			Temp. :	295 K

**Sampler 10347 Calibration Curve**  
**Site: Tuen Mun 38 (TM-A1)**



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies\* / ~~does not comply~~\* with the specified requirements and is deemed acceptable\* / unacceptable\* for use.

Calibrated by : MAK, Kei Wai  
MAK, Kei Wai  
(Assistant Supervisor)

Approved by : LAW, Sau Yee  
LAW, Sau Yee  
(Senior Environmental Officer)



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

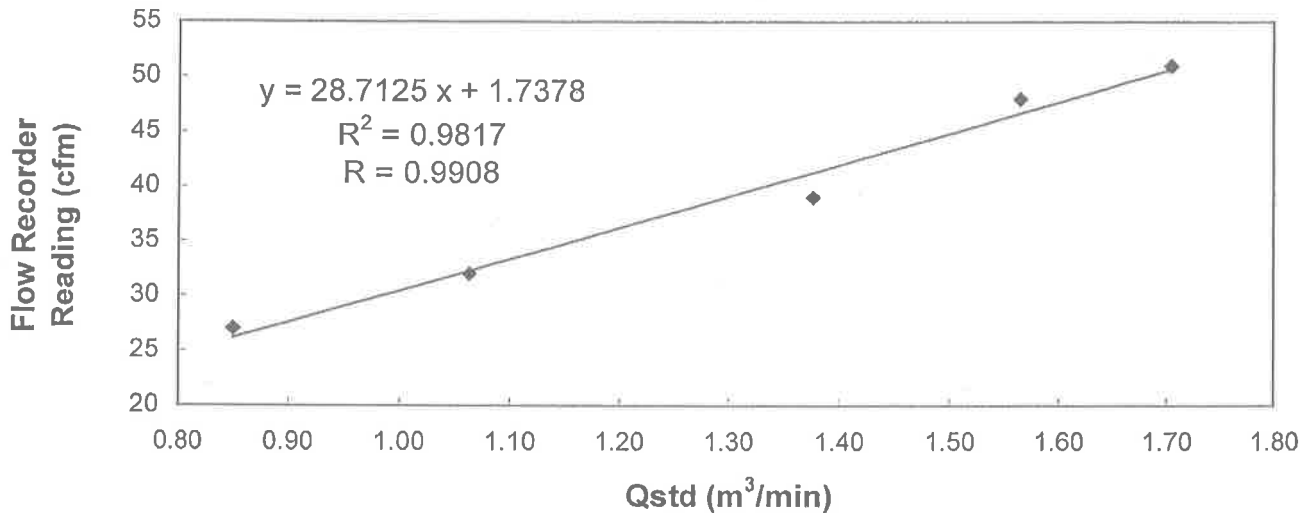
8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318 E-mail : etl@ets-testconsult.com  
Fax : 2695 3944 Web site : www.ets-testconsult.com

Calibration Report  
of  
High Volume Air Sampler

Manufacturer : Graseby GMW Date of Calibration : 22 December 2015  
Serial No. : 9864 ( ET / EA / 003 / 19 ) Calibration Due Date : 21 February 2016  
Method : Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Manual

Results	Flow recorder reading (cfm)	51	48	39	32	27
	Qstd (Actual flow rate, m <sup>3</sup> /min)	1.70	1.56	1.38	1.06	0.85
	Pressure : 763.56 mm Hg	Temp. : 295 K				

**Sampler 9864 Calibration Curve**  
**Site: Tuen Mun (TM-RA2)**



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies\* / ~~does not comply\*~~ with the specified requirements and is deemed acceptable\* / unacceptable\* for use.

Calibrated by : MAK, Kei Wai  
MAK, Kei Wai  
(Assistant Supervisor)

Checked by : LAW, Sau Yee  
LAW, Sau Yee  
(Senior Environmental Officer)





61/CA/004712

TISCH ENVIRONMENTAL, INC.  
 145 SOUTH MIAMI AVE  
 VILLAGE OF CLEVELAND, OH  
 45002  
 513.467.9000  
 877.263.7610 TOLL FREE  
 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 12, 2015 Rootsometer S/N 0438320 Ta (K) - 293  
 Operator Tisch Orifice I.D. - 2943 Pa (mm) - 751.84

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4710	3.2	2.00
2	NA	NA	1.00	1.0350	6.4	4.00
3	NA	NA	1.00	0.9200	7.9	5.00
4	NA	NA	1.00	0.8760	8.7	5.50
5	NA	NA	1.00	0.7220	12.6	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0018	0.6810	1.4186	0.9957	0.6769	0.8828
0.9976	0.9639	2.0061	0.9915	0.9580	1.2485
0.9955	1.0820	2.2429	0.9894	1.0754	1.3959
0.9945	1.1352	2.3524	0.9884	1.1283	1.4640
0.9892	1.3701	2.8371	0.9832	1.3618	1.7657
Qstd slope (m)	=	2.05628	Qa slope (m)	=	1.28761
intercept (b)	=	0.01949	intercept (b)	=	0.01213
coefficient (r)	=	0.99997	coefficient (r)	=	0.99997

y axis = SQRT[H2O(Pa/760) (298/Ta)]

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol [(Pa-Diff. Hg)/760] (298/Ta)  
 Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]  
 Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{ [SQRT(H2O(Pa/760) (298/Ta))] - b}  
 Qa = 1/m{ [SQRT H2O(Ta/Pa)] - b}



## **Appendix B2**

### **Impact Air Quality Monitoring Results**

## Summary of 24-hr TSP Monitoring Results

Monitoring Station : TM-A1

Date	Start Time	Finish		Elapse Time		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min.)		Average (m <sup>3</sup> /min.)	Filter Weight (g)		Conc. (µg/m <sup>3</sup> )
		Date	Time	Initial	Final		Initial	Final		Initial	Final	
01/01/16	08:00	02/01/16	08:00	18819.86	18843.86	24.00	0.8764	0.8764	0.8764	2.7494	2.8498	80
07/01/16	11:00	08/01/16	11:00	18847.86	18871.86	24.00	0.8764	0.8764	0.8764	2.7731	2.8745	80
13/01/16	08:00	14/01/16	08:00	18873.86	18897.86	24.00	0.8764	0.8764	0.8764	2.7634	2.8636	79
19/01/16	09:41	20/01/16	09:41	18901.86	18925.86	24.00	0.8764	0.8764	0.8764	2.7618	2.8701	86
25/01/16	08:00	26/01/16	08:00	18927.86	18951.86	24.00	0.8764	0.8764	0.8764	2.7583	2.8649	84
31/01/16	08:00	01/02/16	08:00	18954.86	18978.86	24.00	0.8764	0.8764	0.8764	2.7601	2.8692	86

Monitoring Station : TM-RA2

Date	Start Time	Finish		Elapse Time		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min.)		Average (m <sup>3</sup> /min.)	Filter Weight (g)		Conc. (µg/m <sup>3</sup> )
		Date	Time	Initial	Final		Initial	Final		Initial	Final	
01/01/16	08:00	02/01/16	08:00	5679.05	5703.05	24.00	1.0540	1.0540	1.0540	2.7541	2.9668	140
07/01/16	11:05	08/01/16	11:05	5707.05	5731.05	24.00	1.0540	1.0540	1.0540	2.7698	2.9753	135
13/01/16	08:00	14/01/16	08:00	5733.05	5757.05	24.00	1.0540	1.0540	1.0540	2.7421	2.9618	145
19/01/16	09:43	20/01/16	09:43	5761.05	5785.05	24.00	1.0540	1.0540	1.0540	2.7606	2.9756	142
25/01/16	08:00	26/01/16	08:00	5787.05	5811.05	24.00	1.0540	1.0540	1.0540	2.7591	2.9708	139
31/01/16	08:00	01/02/16	08:00	5814.05	5838.05	24.00	1.0540	1.0540	1.0540	2.7594	2.9778	144

## Summary of 1-hr TSP Monitoring Results

Monitoring Station : TM-A1

Date	Time		Elapse Time		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min.)		Average (m <sup>3</sup> /min.)	Filter Weight (g)		Conc. (µg/m <sup>3</sup> )
	Start	Finish	Initial	Final		Initial	Final		Initial	Final	
02/01/16	09:23	10:23	18843.86	18844.86	1.00	0.8764	0.8764	0.8764	2.7639	2.7716	146
02/01/16	10:23	11:23	18844.86	18845.86	1.00	0.8764	0.8764	0.8764	2.7539	2.7622	158
05/01/16	10:25	11:25	18845.86	18846.86	1.00	0.8764	0.8764	0.8764	2.7434	2.7524	171
07/01/16	08:25	09:25	18846.86	18847.86	1.00	0.8764	0.8764	0.8764	2.7731	2.7809	148
09/01/16	11:28	12:28	18871.86	18872.86	1.00	0.8764	0.8764	0.8764	2.7434	2.7518	160
12/01/16	14:10	15:10	18872.86	18873.86	1.00	0.8764	0.8764	0.8764	2.7732	2.7796	122
14/01/16	09:24	10:24	18897.86	18898.86	1.00	0.8764	0.8764	0.8764	2.7531	2.7615	160
14/01/16	10:24	11:24	18898.86	18899.86	1.00	0.8764	0.8764	0.8764	2.7434	2.7530	183
16/01/16	09:15	10:15	18899.86	18900.86	1.00	0.8764	0.8764	0.8764	2.7627	2.7737	209
19/01/16	08:41	09:41	18900.86	18901.86	1.00	0.8764	0.8764	0.8764	2.7608	2.7724	221
21/01/16	09:50	10:50	18925.86	18926.86	1.00	0.8764	0.8764	0.8764	2.7603	2.7725	232
23/01/16	12:40	13:40	18926.86	18927.86	1.00	0.8764	0.8764	0.8764	2.7577	2.7704	242
26/01/16	08:10	09:10	18951.86	18952.86	1.00	0.8764	0.8764	0.8764	2.7543	2.7673	247
28/01/16	09:57	10:57	18952.86	18953.86	1.00	0.8764	0.8764	0.8764	2.7583	2.7706	234
30/01/16	08:10	09:10	18953.86	18954.86	1.00	0.8764	0.8764	0.8764	2.7556	2.7683	242

Monitoring Station : TM-RA2

Date	Time		Elapse Time		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min.)		Average (m <sup>3</sup> /min.)	Filter Weight (g)		Conc. (µg/m <sup>3</sup> )
	Start	Finish	Initial	Final		Initial	Final		Initial	Final	
02/01/16	09:30	10:30	5703.05	5704.05	1.00	1.0540	1.0540	1.0540	2.7512	2.7672	253
02/01/16	10:30	11:30	5704.05	5705.05	1.00	1.0540	1.0540	1.0540	2.7612	2.7783	270
05/01/16	10:30	11:30	5705.05	5706.05	1.00	1.0540	1.0540	1.0540	2.7550	2.7732	288
07/01/16	08:15	09:15	5706.05	5707.05	1.00	1.0540	1.0540	1.0540	2.7629	2.7799	269
09/01/16	11:35	12:35	5731.05	5732.05	1.00	1.0540	1.0540	1.0540	2.7702	2.7869	264
12/01/16	14:00	15:00	5732.05	5733.05	1.00	1.0540	1.0540	1.0540	2.7687	2.7861	275
14/01/16	09:30	10:30	5757.05	5758.05	1.00	1.0540	1.0540	1.0540	2.7629	2.7801	272
14/01/16	10:30	11:30	5758.05	5759.05	1.00	1.0540	1.0540	1.0540	2.7397	2.7580	289
16/01/16	09:05	10:05	5759.05	5760.05	1.00	1.0540	1.0540	1.0540	2.7535	2.7725	300
19/01/16	08:43	09:43	5760.05	5761.05	1.00	1.0540	1.0540	1.0540	2.7611	2.7805	307
21/01/16	09:55	10:55	5785.05	5786.05	1.00	1.0540	1.0540	1.0540	2.7598	2.7789	302
23/01/16	12:45	13:45	5786.05	5787.05	1.00	1.0540	1.0540	1.0540	2.7581	2.7773	304
26/01/16	08:05	09:05	5811.05	5812.05	1.00	1.0540	1.0540	1.0540	2.7560	2.7754	307
28/01/16	10:02	11:02	5812.05	5813.05	1.00	1.0540	1.0540	1.0540	2.7566	2.7754	297
30/01/16	08:15	09:15	5813.05	5814.05	1.00	1.0540	1.0540	1.0540	2.7527	2.7718	302

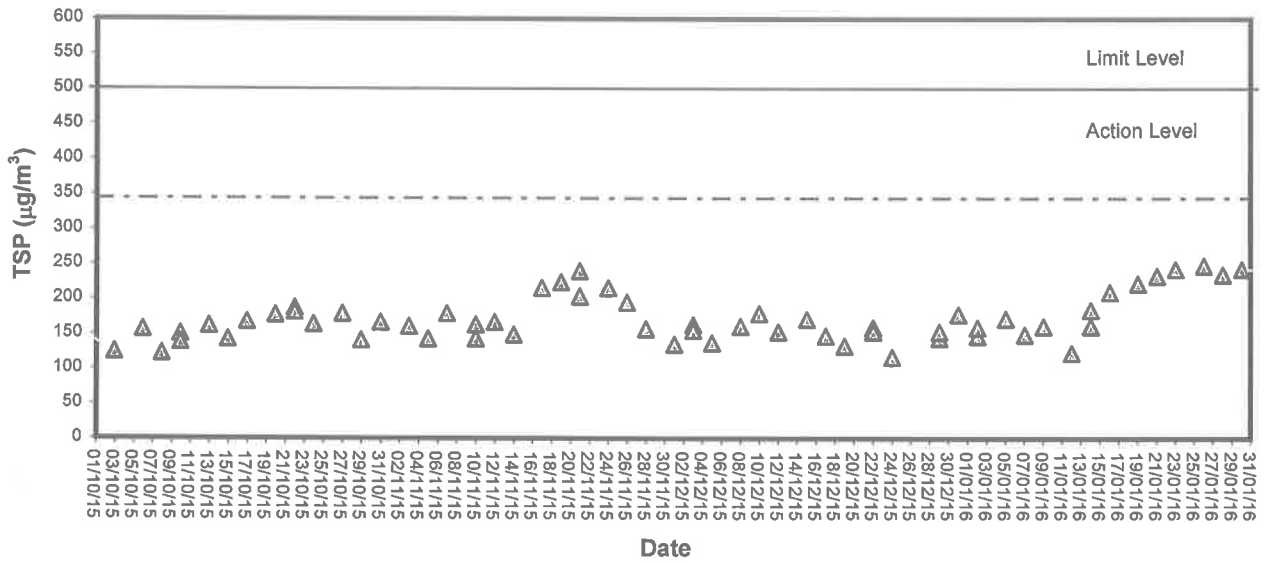


## **Appendix B3**

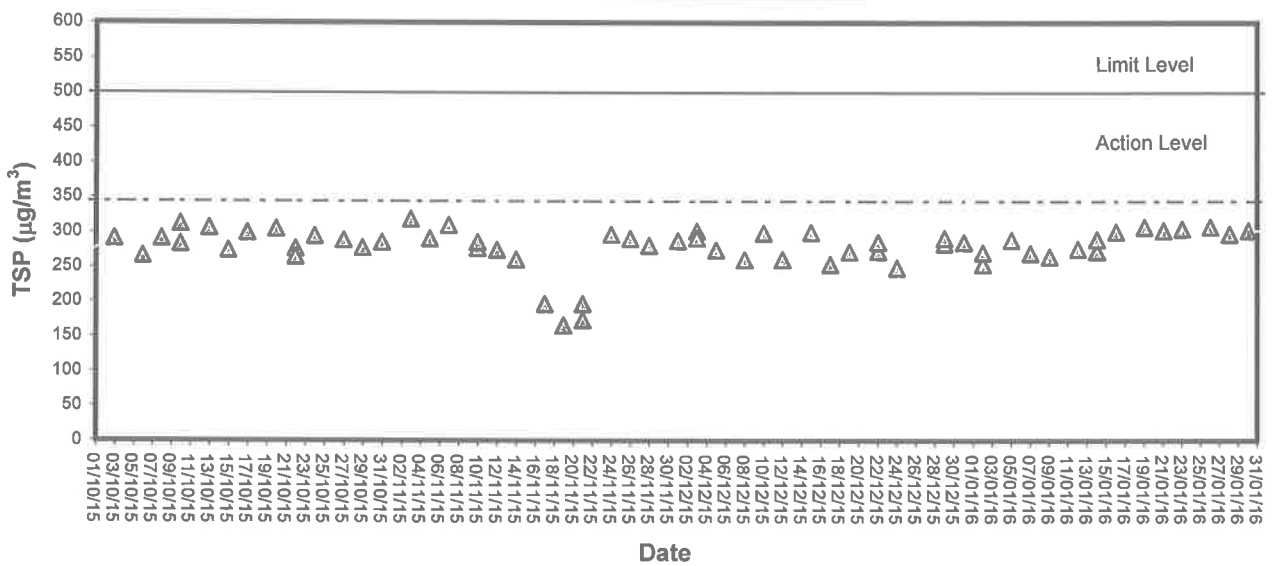
### **Graphical Plots of Impact Air Quality Monitoring Data**



**1-hour TSP level at TM-A1**

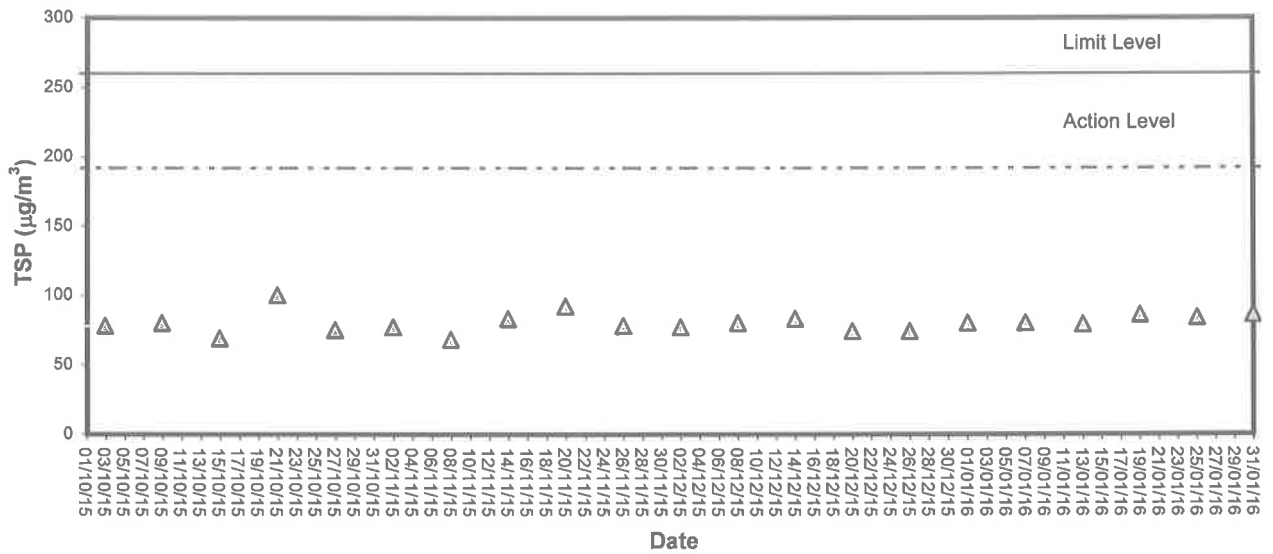


**1-hour TSP level at TM-RA2**

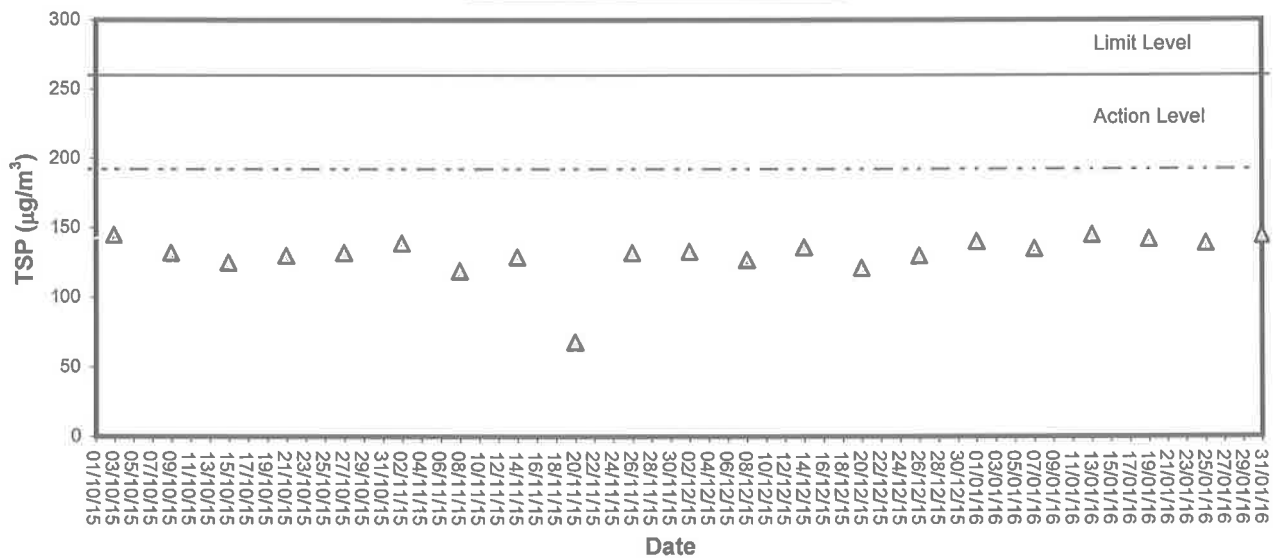




**24-hour TSP level at TM-A1**



**24-hour TSP level at TM-RA2**





## **Appendix C1**

### **Calibration Certificates for Impact Marine Water Quality Monitoring Equipments**





### Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/006</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>12A 100554</u>
Date of Calibration : <u>30/11/2015</u>	Calibration Due Date : <u>01/03/2016</u>

#### Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/008

Ref. No. of Water Bath : ---

Temperature (°C)				
Reference Thermometer reading	Measured	19.7	Corrected	20.4
DO Meter reading	Measured	20	Difference	0.4

#### Standardization of sodium thiosulphate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) solution

Reagent No. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> titrant	CPE/012/4.5/001/12/3	Reagent No. of 0.025N K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	CPE/012/4.4/002/04/05
	Trial 1	Trial 2	
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	10.15	
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	10.15	20.40	
Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	10.15	10.25	
Normality of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution (N)	0.02463	0.02439	
Average Normality (N) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution (N)	0.02451		
Acceptance criteria, Deviation	Less than ± 0.001N		

Calculation: Normality of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, N = 0.25 / ml Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> used

#### Linearity Checking

##### Determination of dissolved oxygen content by Winkler Titration \*

Purging Time (min)	2		5		10	
	1	2	1	2	1	2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	11.10	22.50	0.00	6.60	10.40
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	11.10	22.50	29.30	6.60	10.40	14.10
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	11.10	11.40	6.80	6.60	3.80	3.70
Dissolved Oxygen (DO), mg/L	7.30	7.50	4.47	4.34	2.50	2.43
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.13	7.24	7.19	7.30	7.50	7.40	2.88
5	4.58	4.47	4.53	4.47	4.34	4.41	2.68
10	2.41	2.33	2.37	2.50	2.43	2.47	4.13
Linear regression coefficient				0.9961			



### Internal Calibration Report of Dissolved Oxygen Meter

**Zero Point Checking**

DO meter reading, mg/L	0.00
------------------------	------

**Salinity Checking**

Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/711	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/11
-----------------------------	---------------------	-----------------------------	--------------------

**Determination of dissolved oxygen content by Winkler Titration \*\***

Salinity (ppt)	10		30	
	1	2	1	2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	11.10	22.20	31.80
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	11.10	22.20	31.80	41.10
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	11.10	11.10	9.60	9.30
Dissolved Oxygen (DO), mg/L	7.30	7.30	6.32	6.12
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation:  $DO (mg/L) = V \times N \times 8000/298$

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.31	7.45	7.38	7.30	7.30	7.30	1.09
30	6.43	6.31	6.37	6.32	6.12	6.22	2.38

**Acceptance Criteria**

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : >0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies # / ~~does not comply~~ # with the specified requirements and is deemed acceptable # / unacceptable # for use.

# Delete as appropriate

Calibrated by

:

Approved by :



## Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/006      Manufacturer : YSI  
 Model No. : Pro 2030      Serial No. : 12A 100554  
 Date of Calibration : 30/11/2015      Due Date : 01/03/2015 <sup>2016</sup>

*ide*

Ref. No. of Salinity Standard used (30ppt)	S/001/5
--	---------

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.3	1.00

(\*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

Acceptance Criteria      Difference : -10 % to 10 %

The salinity meter complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use. Measurements are traceable to national standards.

Checked by : *ly*      Approved by : *[Signature]*



## Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/011                      Manufacturer : HACH  
Model No. : 2100Q    Serial No. : 11110 C 014260  
Date of Calibration : 30/12/2015                      Due Date : 29/03/2016

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/8

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.8	4.00
100	97.4	-2.60
800	786	-1.75

(\*) Difference = (Measured Value – Theoretical Value) / Theoretical Value x 100

Acceptance Criteria

Difference : -5 % to 5 %

The turbidity meter complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use. Measurements are traceable to national standards.

Prepared by : 

Checked by : 



## **Appendix C2**

### **Impact Marine Water Quality Monitoring Results**

# Mid-Flood Tide



東業德測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FC1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)		Dissolved Oxygen Saturation (%)		Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Depth-average	Value
02/01/16	1312-1330	24/Fine	Surface	23.0	24.1	24.2	6.44	6.43	86.1	86.0	5.17	5.16	7.8	7.7	7.8	
			Middle	22.8	24.3	24.4	6.30	6.29	84.0	83.9	5.15	5.30	7.6	7.9		
			Bottom	22.5	24.4	24.6	6.28	6.16	83.8	82.2	5.32	5.44	7.9	7.9		
05/01/16	1543-1600	18/Cloudy	Surface	19.5	24.1	24.2	6.17	6.26	82.1	78.6	5.46	5.03	7.5	7.6	7.8	
			Middle	19.3	24.2	24.3	6.15	6.10	82.3	76.4	4.99	5.25	7.7	7.8		
			Bottom	19.1	24.3	24.5	6.25	6.00	76.2	74.9	5.07	5.33	7.9	7.9		
07/01/16	1658-1715	23/Fine	Surface	23.1	24.5	24.4	6.01	6.48	75.1	86.6	5.38	4.38	6.7	6.8	7.2	
			Middle	22.9	24.2	24.2	5.99	6.35	74.7	87.3	4.90	4.72	7.3	7.2		
			Bottom	22.7	24.3	24.4	6.47	6.16	86.5	82.2	4.39	4.71	7.1	7.5		
09/01/16	1812-1830	22/Cloudy	Surface	22.5	24.4	25.0	6.17	6.48	82.3	86.5	4.88	3.95	5.8	5.9	6.3	
			Middle	22.3	25.1	25.3	6.15	6.34	86.6	84.3	4.90	4.11	6.0	6.3		
			Bottom	22.2	25.2	25.5	6.47	6.23	84.2	82.5	3.96	4.13	6.2	6.4		
12/01/16	0942-1000	22/Cloudy	Surface	21.0	25.4	25.1	6.22	6.50	82.4	84.3	4.32	4.33	6.4	6.6	7.1	
			Middle	20.8	25.1	25.3	6.24	6.36	82.6	82.3	4.34	5.12	5.9	6.0		
			Bottom	20.6	25.2	25.4	6.51	6.15	84.2	79.3	4.97	5.23	6.1	7.8		
14/01/16	1113-1130	21/Cloudy	Surface	20.9	25.4	25.2	6.16	6.56	79.2	85.2	5.25	4.89	7.4	7.5	7.6	
			Middle	20.7	25.1	25.4	6.55	6.42	84.4	83.2	4.99	5.03	7.4	7.5		
			Bottom	20.5	25.2	25.5	6.43	6.21	83.0	80.1	5.12	5.01	7.7	7.7		
16/01/16	1215-1230	16/Drizzle	Surface	19.5	25.4	26.4	6.20	6.86	80.0	87.4	5.14	8.04	12.0	12.1	12.2	
			Middle	19.9	25.5	26.9	6.22	6.45	80.2	82.7	5.16	8.14	12.2	12.3		
			Bottom	20.0	26.4	27.4	6.41	6.10	87.1	78.7	5.24	8.21	12.3	12.4		

# Mid-Flood Tide

## Monitoring Station : TM-FC1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
19/01/16	1430-1445	17/Cloudy	Surface	19.7	27.3	27.3	6.66	6.65	6.43	85.3	85.1	5.57	5.58	8.1	8.2			
					27.3	27.3	6.63	6.62	6.43	84.9	85.1	5.59	5.58	8.3	8.2			
					28.0	28.0	6.24	6.22	6.43	80.8	80.6	5.94	5.92	8.9	8.8			
21/01/16	1642-1700	17/Cloudy	Bottom	10.0	28.3	28.3	6.06	6.04	6.04	78.8	78.6	6.47	6.44	9.9	9.8			
					28.2	28.2	6.02	6.02	6.04	78.3	78.6	6.40	6.44	9.7	9.8			
					30.4	30.4	6.77	6.79	6.70	87.0	87.2	7.10	7.14	10.6	10.7			
23/01/16	1812-1830	9/Cloudy	Surface	16.6	24.1	24.1	6.75	6.74	6.62	79.9	79.8	4.36	4.37	6.7	6.8			
					24.1	24.1	6.73	6.74	6.62	79.7	79.8	4.38	4.37	6.9	6.8			
					24.2	24.3	6.51	6.50	6.62	76.8	76.7	4.59	4.60	7.2	7.3			
26/01/16	0942-1000	10/Cloudy	Surface	14.5	24.3	24.3	6.49	6.31	6.31	74.1	74.2	4.77	4.78	7.4	7.5			
					24.3	24.3	6.30	6.31	6.31	74.1	74.2	4.77	4.78	7.4	7.5			
					24.4	24.5	6.32	6.31	6.31	74.3	74.2	4.79	4.78	7.6	7.5			
28/01/16	0910-0926	16/Drizzle	Surface	16.6	24.0	24.1	6.37	6.36	6.28	72.4	72.3	4.91	4.92	7.3	7.4			
					24.1	24.1	6.35	6.36	6.28	72.2	72.3	4.93	4.92	7.5	7.4			
					24.2	24.3	6.21	6.20	6.28	70.4	70.3	4.99	5.00	7.5	7.5			
30/01/16	1112-1130	19/Fine	Surface	16.0	24.4	24.4	6.13	6.12	6.16	69.1	69.0	5.17	5.17	7.7	7.8			
					24.4	24.4	6.11	6.12	6.16	68.9	69.0	5.16	5.17	7.9	7.8			
					24.5	24.5	6.63	6.64	6.55	75.3	75.4	4.23	4.26	6.3	6.5			
28/01/16	0910-0926	16/Drizzle	Middle	16.5	24.0	24.0	6.65	6.47	6.55	75.5	75.4	4.29	4.26	6.7	6.5			
					24.2	24.2	6.48	6.47	6.55	73.6	73.5	4.51	4.48	7.0	6.9			
					24.1	24.1	6.45	6.47	6.55	73.3	73.5	4.44	4.48	6.8	6.9			
28/01/16	0910-0926	16/Drizzle	Bottom	16.3	24.3	24.4	6.24	6.26	6.26	70.9	71.1	4.68	4.65	7.3	7.2			
					24.3	24.4	6.27	6.26	6.26	71.2	71.1	4.61	4.65	7.1	7.2			
					25.0	25.1	6.44	6.45	6.38	75.9	76.0	4.37	4.38	6.4	6.5			
30/01/16	1112-1130	19/Fine	Surface	16.0	25.1	25.1	6.46	6.31	6.16	76.1	76.0	4.39	4.38	6.6	6.5			
					25.2	25.3	6.30	6.31	6.16	74.1	74.2	4.46	4.47	6.8	6.9			
					25.3	25.4	6.32	6.15	6.16	74.3	74.2	4.48	4.47	7.0	6.9			
30/01/16	1112-1130	19/Fine	Middle	15.8	25.4	25.4	6.15	6.16	6.16	72.1	72.2	4.59	4.60	7.2	7.2			
					25.4	25.4	6.17	6.16	6.16	72.3	72.2	4.61	4.60	7.2	7.2			
					25.4	25.4	6.17	6.16	6.16	72.3	72.2	4.61	4.60	7.2	7.2			

# Mid-Flood Tide



## Monitoring Station : TM-FM1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	
02/01/16	1248-1300	24/Fine	Surface	23.1	23.9	24.0	6.37	6.36	6.33	85.2	85.1	5.22	5.23	7.7	7.8	8.0		
					24.0		6.35		6.33		5.24		7.9					
					24.1	24.2	6.28	6.29		5.44	5.45	7.9	8.0					
05/01/16	1516-1533	18/Cloudy	Bottom	22.7	24.2	24.5	6.30	6.16	6.16	83.9	81.9	5.46	5.56	8.1	8.2			
					24.4	24.5	6.17	6.15	6.16	82.0	81.9	5.55	5.57	8.1	8.2			
					24.5	24.2	6.15	6.18	6.19	81.8	78.1	4.86	4.88	7.3	7.4			
07/01/16	1633-1651	23/Fine	Surface	23.0	24.1	24.2	6.20	6.19	6.11	77.9	78.1	4.90	4.88	7.5	7.5	7.5		
					24.2	24.3	6.04	6.03	6.11	76.0	75.9	4.94	4.97	7.5	7.5			
					24.3	24.3	6.02	6.02	5.90	75.7	74.0	5.00	5.07	7.5	7.6			
09/01/16	1748-1806	22/Cloudy	Bottom	22.5	24.4	24.5	5.91	6.11	6.11	74.2	81.3	5.04	4.81	7.3	7.3			
					24.4	24.5	5.89	6.10	6.11	73.7	81.2	5.10	4.82	7.3	7.3			
					24.5	24.9	6.39	6.38	6.30	85.4	85.2	4.46	4.00	6.7	6.0			
12/01/16	0918-0936	22/Cloudy	Surface	21.1	24.1	25.0	6.41	6.38	6.30	85.0	85.2	4.48	4.00	6.0	6.0	6.4		
					24.2	25.1	6.41	6.22	6.30	85.0	85.3	4.48	4.01	6.0	6.0			
					24.3	25.2	6.29	6.22	6.30	86.4	82.6	4.59	4.26	7.1	6.4			
14/01/16	1046-1103	21/Cloudy	Bottom	20.7	24.3	25.3	6.31	6.16	6.16	86.6	81.6	4.61	4.43	7.3	6.7			
					24.3	25.2	6.23	6.15	6.16	86.6	81.5	4.80	4.42	7.3	6.6			
					24.4	25.4	6.12	6.17	6.16	81.4	81.6	4.80	4.44	7.3	6.8			
16/01/16	1155-1200	16/Drizzle	Surface	19.9	24.9	25.2	6.37	6.41	6.35	81.2	83.2	3.99	4.81	6.0	6.0	11.0		
					25.0	25.3	6.39	6.29	6.30	85.3	84.0	4.01	4.71	6.0	6.0			
					25.1	25.3	6.37	6.35	6.35	82.5	82.3	4.25	4.89	6.3	6.4			
16/01/16	1155-1200	16/Drizzle	Middle	19.9	25.2	26.3	6.23	6.38	6.56	82.7	82.0	4.27	7.44	10.7	10.9			
					25.3	26.3	6.28	6.38	6.38	82.7	82.0	4.27	7.44	10.7	10.9			
					25.4	26.8	6.15	6.06	6.06	81.5	82.0	4.97	7.73	11.1	11.5			
16/01/16	1155-1200	16/Drizzle	Bottom	19.9	25.4	27.3	6.11	6.06	6.06	81.3	77.7	4.99	7.73	11.6	11.5			
					25.4	27.3	6.09	6.06	6.06	78.8	77.7	5.13	7.75	11.6	11.5			
					25.5	27.3	6.09	6.08	6.06	78.6	77.4	5.15	7.70	11.6	11.5			



# Mid-Flood Tide



東業經動測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FM1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Value	Average
19/01/16	1410-1425	17/Cloudy	Surface	19.7	27.4	27.4	6.72	6.74		86.3	86.6	5.17	5.16	7.7	7.7			
					27.4		6.75		86.8	5.14	7.7							
					28.0	28.1	6.18	6.16	79.8	6.10	9.3	9.2	5.84	9.1				
21/01/16	1617-1635	17/Cloudy	Bottom	20.0	28.4	28.4	6.07	6.06		78.8	78.6	6.20	6.23	9.4	9.5			
					28.3		6.04		78.3	6.26	9.6							
					30.4	30.4	6.78	6.76	87.1	7.25	10.7	10.8						
23/01/16	1748-1808	9/Cloudy	Surface	16.5	24.1	24.2	6.61	6.62		78.2	78.3	4.25	4.26	6.4	6.5			
					24.2		6.63		78.4	4.27	6.6							
					24.3	24.4	6.44	6.43	75.9	4.32	6.7	6.8	4.34	6.9				
26/01/16	0918-0936	10/Cloudy	Surface	14.6	24.4	24.4	6.42	6.43		85.7	85.5	7.46	7.43	7.0	7.0			
					24.5	24.6	6.27	6.28	84.0	7.24	6.8	6.9	4.41	4.42	7.5	7.6		
					24.6		6.29		83.6	7.20	7.0	7.1	5.03	5.04	7.7	7.7		
28/01/16	0930-0944	16/Drizzle	Surface	16.5	24.2	24.2	6.29	6.28		71.3	71.4	5.03	5.04	7.8	7.9			
					24.3	24.3	6.15	6.14	69.8	5.12	7.6	7.7	5.15	7.8				
					24.4	24.5	6.13	6.05	69.6	5.14	8.0	8.0	5.27	5.28	8.0	8.0		
30/01/16	1048-1106	19/Fine	Surface	16.1	24.5	24.5	6.06	6.05		68.1	68.2	5.29	5.28	6.6	6.5			
					24.0	24.1	6.73	6.74	76.5	4.38	6.4	6.4	4.46	4.43	6.6	6.5		
					24.1	24.3	6.75	6.68	76.7	4.32	6.9	6.9	4.40	4.43	7.0	7.1		
30/01/16	1048-1106	19/Fine	Middle	16.4	24.4	24.5	6.42	6.43		75.9	75.8	4.46	4.46	7.0	7.1			
					24.2	24.3	6.66	6.68	75.7	4.40	7.2	7.2	4.56	4.56	7.2	7.2		
					24.4	24.5	6.42	6.42	72.9	4.56	7.4	7.4	4.64	4.65	7.4	7.4		
30/01/16	1048-1106	19/Fine	Bottom	16.3	25.1	25.2	6.54	6.55		73.2	73.1	4.61	4.59	6.8	6.9			
					25.2		6.56		77.1	4.45	7.0	7.0	4.68	4.68	7.0	7.0		
					25.3	25.3	6.41	6.42	79.4	4.55	7.1	7.1	4.72	4.72	7.1	7.1		
30/01/16	1048-1106	19/Fine	Bottom	15.6	25.3	25.5	6.43	6.29		79.6	79.5	4.57	4.56	7.2	7.3			
					25.4	25.5	6.30	6.29	73.9	4.64	7.2	7.2	4.64	4.65	7.2	7.3		
					25.5		6.28		73.7	4.66	7.4	7.4	4.66	4.66	7.4	7.4		

# Mid-Flood Tide

## Monitoring Station : TM-FM2

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
02/01/16	1224-1242	24/Fine	Surface	23.0	24.0	24.0	6.50	6.51	6.45	86.9	87.0	87.0	4.96	4.97	7.4	7.5	7.7	
			Middle	22.8	24.1	24.2	6.37	6.38	6.45	84.9	85.0	85.1	5.11	5.10	7.9	7.8		
			Bottom	22.6	24.3	24.4	6.24	6.23	6.23	83.1	82.8	82.5	5.24	5.25	7.7	7.7		
05/01/16	1453-1510	18/Cloudy	Surface	19.8	24.2	24.3	6.24	6.26	6.20	78.9	79.1	79.1	4.84	4.89	7.2	7.3	7.6	
			Middle	19.6	24.3	24.4	6.16	6.15	6.20	77.7	77.5	77.2	4.96	5.01	7.5	7.6		
			Bottom	19.5	24.6	24.5	6.08	6.07	6.07	76.5	76.2	75.9	5.08	5.11	7.6	7.8		
07/01/16	1609-1627	23/Fine	Surface	23.2	24.0	24.0	6.55	6.54	6.47	87.4	87.5	87.5	4.27	4.28	6.4	6.5	6.9	
			Middle	23.0	24.1	24.2	6.41	6.40	6.47	88.1	88.0	87.9	4.46	4.45	7.0	6.9		
			Bottom	22.8	24.3	24.4	6.22	6.21	6.21	82.7	82.6	82.5	4.71	4.72	7.2	7.3		
09/01/16	1724-1742	22/Cloudy	Surface	22.5	25.1	25.2	6.45	6.46	6.40	86.1	86.2	86.2	4.12	4.13	6.1	6.2	6.4	
			Middle	22.4	25.3	25.4	6.33	6.34	6.40	84.1	84.2	84.3	4.27	4.28	6.4	6.5		
			Bottom	22.3	25.5	25.6	6.12	6.13	6.13	81.2	81.3	81.4	4.36	4.37	6.5	6.6		
12/01/16	0854-0912	22/Cloudy	Surface	21.0	25.0	25.0	6.55	6.56	6.49	85.0	85.1	85.1	5.12	5.11	7.6	7.6	7.8	
			Middle	20.8	25.1	25.2	6.42	6.41	6.49	83.1	83.1	83.0	5.24	5.25	7.7	7.9		
			Bottom	20.7	25.3	25.4	6.33	6.34	6.34	81.6	81.7	81.8	5.37	5.38	7.9	7.8		
14/01/16	1023-1040	21/Cloudy	Surface	20.9	25.1	25.1	6.61	6.62	6.55	85.9	86.0	86.0	5.03	5.02	7.5	7.5	7.7	
			Middle	20.7	25.3	25.3	6.48	6.47	6.55	83.9	83.8	83.7	5.15	5.16	7.6	7.7		
			Bottom	20.6	25.2	25.5	6.46	6.40	6.40	82.4	82.5	82.5	5.28	5.29	7.8	7.9		
16/01/16	1135-1150	16/Drizzle	Surface	19.4	26.3	26.3	6.69	6.67	6.48	85.0	84.7	84.7	7.07	7.04	10.6	10.5	10.9	
			Middle	19.8	26.9	27.0	6.29	6.28	6.48	80.7	80.6	80.4	7.34	7.32	10.8	10.7		
			Bottom	20.0	27.2	27.3	6.01	6.03	6.03	77.4	77.7	77.9	7.88	7.87	11.7	11.6		

# Mid-Flood Tide

Monitoring Station : TM-FM2



東區德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
19/01/16	1350-1405	17/Cloudy	Surface	19.8	27.4	27.4	6.68	6.67	5.20	5.23	7.7	7.8	7.7	7.8	7.7	7.8	7.7	7.8
			Middle	20.0	28.1	28.2	6.65	6.27	6.06	6.04	81.3	81.1	80.8	8.8	9.0	8.7	8.7	8.7
			Bottom	20.0	28.2	28.3	6.25	6.03	6.04	6.03	78.5	78.3	78.1	9.1	9.4	9.1	9.4	9.1
21/01/16	1554-1611	17/Cloudy	Surface	19.0	30.3	30.4	6.75	6.74	7.23	7.21	10.7	10.6	10.7	10.6	10.7	10.6	10.7	10.6
			Middle	18.9	30.6	30.6	6.63	6.62	86.3	85.0	85.2	85.0	84.8	10.8	10.9	10.8	10.8	10.8
			Bottom	18.8	30.7	30.8	6.60	6.50	83.8	83.5	83.1	83.5	83.1	11.0	10.8	11.0	10.6	10.8
23/01/16	1724-1742	9/Cloudy	Surface	16.5	23.9	24.0	6.55	6.56	77.5	77.6	77.7	77.6	77.6	6.8	6.8	6.8	6.8	6.8
			Middle	16.4	24.1	24.2	6.57	6.32	74.4	74.5	74.6	74.5	74.6	7.1	7.2	7.1	7.2	7.0
			Bottom	16.2	24.2	24.3	6.33	6.18	72.5	72.6	72.7	72.6	72.7	7.3	7.1	7.0	7.1	7.0
26/01/16	0854-0912	10/Cloudy	Surface	14.4	23.9	23.9	6.45	6.46	73.3	73.4	73.5	73.4	73.4	7.4	7.4	7.4	7.4	7.4
			Middle	14.3	24.0	24.1	6.32	6.31	71.7	71.6	71.5	71.6	71.5	7.7	7.8	7.7	7.8	7.7
			Bottom	14.1	24.1	24.2	6.30	6.24	70.5	70.4	70.3	70.4	70.5	7.9	7.9	7.8	7.9	7.7
28/01/16	0948-1003	16/Drizzle	Surface	16.5	24.1	24.1	6.68	6.66	42.9	42.6	42.9	42.6	6.5	6.4	6.5	6.4	6.5	6.4
			Middle	16.4	24.2	24.3	6.64	6.57	74.6	74.4	74.2	74.4	74.2	6.3	6.8	6.7	6.8	6.8
			Bottom	16.3	24.3	24.4	6.57	6.46	73.3	73.4	73.5	73.4	73.3	7.0	7.1	7.0	7.1	7.0
30/01/16	1024-1042	19/Fine	Surface	15.9	24.9	25.0	6.60	6.61	77.8	77.9	77.8	77.9	6.4	6.5	6.4	6.5	6.4	6.5
			Middle	15.7	25.1	25.2	6.62	6.46	76.1	76.1	76.0	76.1	76.1	6.6	6.9	6.7	6.9	6.9
			Bottom	15.6	25.2	25.3	6.45	6.35	74.4	74.5	74.6	74.5	74.4	7.1	7.2	7.1	7.2	7.1

# Mid-Flood Tide

## Monitoring Station : TM-FC2

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)		Dissolved Oxygen Saturation (%)		Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Value	Average	Value	Average	Depth-average	Value	Average	Depth-average
02/01/16	1200-1218	24/Fine	Surface	23.1	23.9	24.0	6.60	6.59	88.3	88.4	5.00	5.01	7.4	7.5	7.7	
			Middle	22.9	24.0	6.41	6.40	85.5	85.6	5.02	5.14	7.6	7.7			
			Bottom	22.7	24.2	6.39	6.31	85.7	83.9	5.13	5.30	7.6	7.8			
05/01/16	1430-1447	18/Cloudy	Surface	19.7	24.3	6.28	6.27	79.1	78.9	4.88	4.92	7.4	7.5	7.6		
			Middle	19.5	24.4	6.13	6.12	77.1	76.9	5.01	5.05	7.5	7.6			
			Bottom	19.4	24.3	6.11	6.03	76.7	75.7	5.09	5.17	7.7	7.7			
07/01/16	1545-1603	23/Fine	Surface	23.0	24.0	6.30	6.31	84.2	84.3	4.30	4.31	6.4	6.5	6.8		
			Middle	22.9	24.2	6.17	6.18	84.8	84.9	4.49	4.50	6.7	6.8			
			Bottom	22.7	24.3	6.19	6.05	85.0	80.4	4.51	4.68	6.9	7.1			
09/01/16	1700-1718	22/Cloudy	Surface	22.5	25.1	6.55	6.56	87.4	87.5	3.73	3.74	5.4	5.6	5.8		
			Middle	22.3	25.2	6.40	6.39	85.1	85.0	3.88	3.89	5.7	5.8			
			Bottom	22.2	25.3	6.38	6.19	84.9	82.2	3.90	4.04	5.9	6.1			
12/01/16	0830-0845	22/Cloudy	Surface	20.9	25.1	6.37	6.38	82.6	82.7	5.04	5.05	7.5	7.6	7.7		
			Middle	20.8	25.2	6.24	6.23	80.7	80.6	5.13	5.14	7.7	7.7			
			Bottom	20.6	25.4	6.22	6.16	80.5	79.4	5.15	5.23	7.8	7.8			
14/01/16	1000-1017	21/Cloudy	Surface	20.8	25.3	6.43	6.44	83.5	83.6	4.95	4.96	7.4	7.5	7.6		
			Middle	20.7	25.2	6.45	6.29	81.5	81.4	4.97	5.05	7.5	7.6			
			Bottom	20.5	25.4	6.30	6.22	81.3	80.2	5.04	5.14	7.7	7.7			
16/01/16	1115-1130	16/Drizzle	Surface	19.5	25.6	6.23	6.22	80.3	80.2	5.13	5.14	7.6	7.7	10.6		
			Middle	19.7	25.7	6.21	6.09	80.1	78.2	5.15	7.66	7.8	11.3			
			Bottom	19.8	27.1	6.07	6.09	77.9	78.2	6.24	7.65	9.5	11.2			

# Mid-Flood Tide

## Monitoring Station : TM-FC2

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)		Dissolved Oxygen Saturation (%)		Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Depth-average	Value
19/01/16	1330-1345	17/Cloudy	Surface	19.7	27.4	27.4	6.70	6.72	86.1	86.4	5.02	5.04	7.5	7.6	8.1	
			Middle	19.9	27.9	28.0	6.30	6.32	81.5	81.7	5.48	5.47	8.1	8.0		
			Bottom	20.0	28.2	28.2	6.12	6.14	79.3	79.5	5.87	5.84	8.8	8.7		
21/01/16	1530-1547	17/Cloudy	Surface	18.9	30.4	30.4	6.67	6.69	85.7	85.9	7.28	7.31	10.6	10.7	10.7	
			Middle	18.8	30.5	30.6	6.53	6.51	83.9	83.7	7.49	7.51	10.9	11.0		
			Bottom	18.7	30.7	30.7	6.33	6.32	81.3	81.2	7.26	7.32	11.1	10.5		
23/01/16	1700-1718	9/Cloudy	Surface	16.4	24.1	24.1	6.70	6.71	79.3	79.4	4.17	4.18	6.3	6.4	6.7	
			Middle	16.3	24.2	24.3	6.59	6.60	77.7	77.8	4.29	4.30	6.3	6.5		
			Bottom	16.2	24.4	24.5	6.43	6.44	75.6	75.7	4.55	4.56	6.7	7.0		
26/01/16	0830-0848	10/Cloudy	Surface	14.5	24.1	24.1	6.29	6.30	71.5	71.6	4.92	4.93	7.4	7.5	7.6	
			Middle	14.3	24.3	24.3	6.18	6.19	70.1	70.2	5.03	5.04	7.6	7.6		
			Bottom	14.2	24.4	24.5	6.20	6.18	70.3	69.6	5.05	5.17	7.7	7.7		
28/01/16	1007-1023	16/Drizzle	Surface	16.6	24.1	24.1	6.59	6.61	74.9	75.1	4.35	4.33	6.6	6.5	6.8	
			Middle	16.5	24.2	24.2	6.52	6.53	74.1	74.2	4.48	4.45	6.4	6.8		
			Bottom	16.4	24.3	24.4	6.54	6.42	74.3	72.9	4.41	4.58	6.6	7.1		
30/01/16	1000-1018	19/Fine	Surface	16.1	25.2	25.2	6.37	6.38	75.1	75.2	4.55	4.56	7.1	7.1	7.3	
			Middle	15.8	25.3	25.3	6.20	6.21	72.9	73.0	4.63	4.64	7.2	7.3		
			Bottom	15.7	25.4	25.5	6.13	6.14	71.9	72.0	4.65	4.71	7.4	7.5		

# Mid-Ebb Tide

## Monitoring Station : TM-FC1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
02/01/16	1942-2000	24/Fine	Surface	22.9	23.9	24.0	6.34	6.33	6.25	84.8	84.7	5.23	5.24	7.7	7.8	8.0		
					24.0	24.1	6.32	6.16	84.6	5.25	7.9							
					24.2	24.2	6.17	5.37	82.3	5.39	7.8							
05/01/16	0943-1000	18/Cloudy	Bottom	22.5	24.3	24.4	6.00	6.01	6.01	79.8	80.0	5.47	5.48	8.1	8.2			
					24.4	24.1	6.02	6.20	80.1	5.09	8.3							
					24.0	24.1	6.21	77.9	5.08	7.6	7.7							
07/01/16	1142-1200	23/Fine	Surface	23.1	24.1	24.2	6.34	6.35	6.28	84.8	84.9	4.46	4.47	6.6	6.7			
					24.2	24.3	6.36	6.20	85.0	4.48	6.8							
					24.3	24.3	6.19	75.7	5.34	7.8	7.9							
09/01/16	1312-1330	22/Cloudy	Middle	22.4	24.3	24.3	6.03	6.04	6.04	75.4	75.6	5.42	5.38	7.0	7.1			
					24.3	24.4	5.95	5.94	85.3	4.57	7.2							
					24.5	24.5	6.11	6.12	81.3	4.99	7.5							
12/01/16	1457-1515	22/Cloudy	Surface	21.1	24.4	24.5	6.13	6.12	6.12	73.9	74.1	5.53	5.50	8.4	8.2			
					25.1	25.2	6.31	6.32	84.2	4.14	6.1							
					25.2	25.2	6.33	6.18	84.4	4.16	6.3							
14/01/16	1613-130	21/Cloudy	Middle	20.8	25.3	25.4	6.17	6.16	6.26	81.9	82.0	4.29	4.30	6.4	6.5			
					25.4	25.4	6.19	6.06	82.1	4.31	6.6							
					25.5	25.5	6.05	6.06	80.2	4.48	6.8							
16/01/16	1815-1830	16/Drizzle	Bottom	20.6	25.6	25.6	6.07	6.04	6.03	80.4	80.3	4.50	4.49	7.0	6.9			
					25.0	25.0	6.34	6.35	82.2	5.12	7.6							
					24.9	25.3	6.36	6.47	82.4	5.14	7.6							
16/01/16	1815-1830	16/Drizzle	Surface	19.4	25.1	25.2	6.17	6.16	6.40	79.8	79.7	5.26	5.27	7.7	7.8			
					25.2	25.2	6.15	6.03	79.6	5.28	7.9							
					25.3	25.4	6.02	6.03	77.6	6.02	9.0							
16/01/16	1815-1830	16/Drizzle	Middle	19.7	25.4	25.5	6.46	6.47	6.12	84.0	84.1	4.94	4.95	7.5	7.6			
					25.5	25.5	6.48	6.33	84.1	4.96	7.7							
					25.5	25.5	6.32	6.03	82.2	5.09	7.6							
16/01/16	1815-1830	16/Drizzle	Bottom	20.0	25.6	25.6	6.11	6.12	6.04	81.9	82.1	5.07	5.08	7.6	7.6			
					25.6	25.6	6.13	6.12	79.9	5.20	7.6							
					25.6	25.6	6.13	6.12	79.1	5.22	7.8							
16/01/16	1815-1830	16/Drizzle	Surface	19.4	26.5	26.5	6.67	6.66	6.39	84.8	84.6	7.94	7.92	11.8	11.8			
					26.5	26.5	6.64	6.13	84.4	7.90	11.8							
					27.2	27.2	6.14	6.04	78.7	8.27	12.4							
16/01/16	1815-1830	16/Drizzle	Middle	19.7	27.2	27.2	6.11	6.04	6.04	78.3	78.5	8.31	8.29	12.6	12.5			
					27.3	27.3	6.03	6.04	77.6	8.30	12.4							
					27.3	27.3	6.05	6.04	78.0	8.34	12.8							

# Mid-Ebb Tide



東業 維動 測試 顧問 有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FC1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	
19/01/16	0900-0915	17/Cloudy	Surface	19.3	27.4	27.4	6.43	6.45	6.29	82.2	82.5	5.74	5.72	8.5	8.4	9.0		
					27.3	28.1	6.47	6.14	6.29	82.7	79.1	5.70	6.10	8.3	9.1			
					28.1	28.2	6.12	6.04	6.04	78.9	78.1	6.12	6.32	9.2	9.5			
21/01/16	1127-1145	16/Cloudy	Surface	18.9	30.3	30.4	6.02	6.76	6.67	77.8	86.9	6.34	7.20	10.8	10.7	10.8		
					30.4	30.6	6.05	6.57	6.67	78.3	84.5	7.23	7.46	10.6	10.8			
					30.5	30.8	6.58	6.39	6.39	84.6	82.1	7.43	7.30	10.7	10.8			
23/01/16	1312-1330	10/Cloudy	Surface	16.6	24.1	24.0	6.37	6.57	6.44	81.9	77.8	4.47	4.48	6.8	6.9	7.1		
					24.2	24.2	6.56	6.30	6.44	82.2	74.3	4.49	4.57	7.0	7.2			
					24.3	24.4	6.29	6.12	6.12	77.7	71.9	4.56	4.78	7.1	7.5			
26/01/16	1442-1500	10/Cloudy	Surface	14.5	24.2	24.2	6.27	6.26	6.20	71.1	71.2	5.19	5.20	7.6	7.7	7.8		
					24.3	24.4	6.14	6.13	6.20	71.3	69.5	5.21	5.37	7.8	7.9			
					24.4	24.6	6.12	6.06	6.06	69.6	68.1	5.36	5.43	8.0	7.9			
28/01/16	1430-1447	16/Cloudy	Surface	16.4	24.5	24.6	6.05	6.50	6.45	68.2	73.7	5.44	4.44	6.7	6.8	7.2		
					24.6	23.9	6.07	6.41	6.45	68.0	70.5	5.42	4.70	6.9	7.4			
					23.8	24.1	6.39	6.22	6.22	73.8	70.5	4.41	4.82	7.2	7.4			
30/01/16	1712-1730	19/Fine	Surface	16.1	25.1	25.2	6.35	6.36	6.28	70.6	74.9	4.78	4.48	6.7	7.0	7.3		
					25.2	25.3	6.37	6.20	6.28	70.3	72.9	4.47	4.57	6.9	7.1			
					25.3	25.5	6.21	6.10	6.10	72.2	71.5	4.67	4.62	7.2	7.7			
30/01/16	1712-1730	19/Fine	Middle	15.8	25.3	25.3	6.19	6.20	6.10	72.8	71.5	4.58	4.62	7.8	7.7	7.3		
					25.4	25.5	6.11	6.10	6.10	71.6	71.5	4.60	4.62	7.8	7.7			
					25.5	25.5	6.09	6.10	6.10	71.4	71.5	4.64	4.62	7.6	7.7			



**Mid-Ebb Tide**

**Monitoring Station : TM-FM1**

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Value	Average
02/01/16	1918-1936	24/Fine	Surface	23.0	24.1	24.2	6.29	6.28	84.1	84.1	5.55	5.56	8.0	8.1	8.3			
			Middle	22.8	24.2	6.27	6.11	84.0	81.5	5.57	5.64	8.2	8.3					
			Bottom	22.6	24.3	6.12	6.10	81.6	79.4	5.63	5.78	8.4	8.5					
05/01/16	0916-0933	18/Cloudy	Surface	19.5	24.4	5.96	5.97	79.3	77.3	5.77	4.97	7.5	7.6	7.6				
			Middle	19.4	24.5	5.98	5.97	79.5	75.1	5.79	5.06	7.6	7.6					
			Bottom	19.2	24.1	6.12	6.13	77.1	73.2	4.95	5.16	7.7	7.7					
07/01/16	1118-1130	23/Fine	Surface	23.0	24.2	6.25	6.26	83.6	83.7	4.55	4.56	7.1	7.2	7.3				
			Middle	22.7	24.0	6.27	6.16	83.8	84.7	4.57	4.68	7.2	7.4					
			Bottom	22.6	24.1	6.15	6.15	84.8	79.9	4.67	4.78	7.3	7.4					
09/01/16	1248-1306	22/Cloudy	Surface	22.5	24.2	6.00	6.01	80.0	80.0	4.77	4.78	7.5	7.5	6.8				
			Middle	22.3	24.3	6.27	6.26	83.4	83.5	4.25	4.26	6.4	6.5					
			Bottom	22.2	24.4	6.13	6.14	83.6	81.6	4.38	4.39	6.6	6.7					
12/01/16	1433-1451	22/Cloudy	Surface	21.0	25.2	5.97	5.96	77.0	76.9	5.27	5.28	7.0	7.1	7.7				
			Middle	20.9	25.3	5.95	6.10	79.0	78.9	5.14	5.15	7.6	7.8					
			Bottom	20.8	25.4	6.09	6.29	79.5	79.4	5.16	4.56	8.0	7.8					
14/01/16	1546-1603	21/Cloudy	Surface	21.1	25.5	6.31	6.30	81.6	81.7	5.00	5.01	7.4	7.5	7.5				
			Middle	20.9	25.2	6.39	6.38	81.8	82.9	5.02	4.78	7.6	7.5					
			Bottom	20.7	25.3	6.27	6.26	82.9	81.2	4.77	4.95	7.7	7.6					
16/01/16	1755-1810	16/Drizzle	Surface	19.5	25.4	6.08	6.07	78.6	78.5	5.10	5.11	11.1	11.1	11.7				
			Middle	19.8	25.5	6.06	6.20	78.4	79.6	5.12	7.97	12.0	11.9					
			Bottom	20.0	25.6	5.94	5.96	77.3	77.1	8.07	8.05	12.1	12.1					



# Mid-Ebb Tide



東業棧動測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FM1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Value	Average
19/01/16	0840-0855	17/Cloudy	Surface	19.2	27.5	27.5	6.57	6.58	83.9	84.1	5.23	5.21	7.8	7.7	8.6			
			Middle	19.8	27.9	27.9	6.07	6.06	78.4	78.2	6.07	6.04	9.0	9.0				
			Bottom	20.0	28.3	28.3	5.99	5.97	77.6	77.3	6.12	6.14	9.1	9.2				
21/01/16	1102-1120	16/Cloudy	Surface	18.9	30.3	30.3	6.69	6.68	86.0	85.8	7.35	7.33	10.8	10.7	10.8			
			Middle	18.8	30.5	30.5	6.60	6.59	84.8	84.6	7.46	7.49	11.0	11.1				
			Bottom	18.8	30.6	30.6	6.57	6.47	84.4	83.1	7.52	7.20	11.1	10.7				
23/01/16	1248-1306	10/Cloudy	Surface	16.6	24.1	24.1	6.49	6.48	76.8	76.7	4.37	4.38	6.6	6.7	7.3			
			Middle	16.5	24.3	24.3	6.25	6.26	73.7	73.8	4.62	4.61	7.3	7.2				
			Bottom	16.3	24.5	24.5	6.04	6.05	71.0	71.1	4.80	4.81	7.2	7.3				
26/01/16	1418-1436	10/Cloudy	Surface	14.6	24.0	24.0	6.19	6.18	70.3	70.4	5.09	5.10	7.5	7.6	7.7			
			Middle	14.4	24.2	24.2	6.09	6.10	69.1	69.2	5.13	5.14	7.6	7.6				
			Bottom	14.2	24.5	24.5	5.98	5.98	67.5	67.4	5.36	5.35	7.8	7.9				
28/01/16	1452-1510	16/Cloudy	Surface	16.4	23.8	23.8	6.62	6.63	75.1	75.2	4.46	4.49	6.6	6.8	7.1			
			Middle	16.3	24.0	24.0	6.57	6.56	74.5	74.4	4.59	4.62	7.1	7.2				
			Bottom	16.2	24.2	24.2	6.48	6.48	73.5	73.5	4.74	4.72	7.4	7.4				
30/01/16	1648-1706	19/Fine	Surface	16.0	25.0	25.0	6.40	6.41	75.4	75.5	4.60	4.61	7.2	7.2	7.3			
			Middle	15.8	25.2	25.2	6.33	6.34	74.4	74.5	4.78	4.79	7.3	7.4				
			Bottom	15.6	25.4	25.4	6.20	6.21	72.7	72.8	4.83	4.84	7.3	7.4				

# Mid-Ebb Tide



東業檢測顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FM2

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Value	Average
02/01/16	1854-1912	24/Fine	Surface	23.1	23.9	24.0	6.40	6.41	6.38	85.6	85.7	5.17	5.18	7.6	7.7	7.9		
			Middle	22.9	24.1	24.2	6.35	6.34	6.38	84.7	84.6	5.36	5.37	7.8	7.9			
			Bottom	22.7	24.2	24.2	6.33	6.34	6.38	84.5	84.6	5.38	5.37	8.0	8.1			
05/01/16	0853-0910	18/Cloudy	Surface	19.7	24.4	24.5	6.17	6.16	6.16	82.1	82.0	5.46	5.47	7.4	7.5	7.7		
			Middle	19.5	24.2	24.2	6.18	6.20	6.14	78.1	78.3	4.93	4.98	7.6	7.8			
			Bottom	19.4	24.3	24.3	6.07	6.09	6.01	76.9	76.7	5.05	5.10	8.0	8.1			
07/01/16	1054-1112	23/Fine	Surface	23.1	24.4	24.5	6.02	6.01	6.01	75.7	75.4	5.17	5.20	7.7	7.7	7.0		
			Middle	22.8	24.1	24.2	6.41	6.40	6.32	85.7	85.6	4.37	4.38	6.6	6.7			
			Bottom	22.6	24.2	24.3	6.39	6.23	6.30	85.5	85.6	4.49	4.48	6.5	6.6			
09/01/16	1224-1242	22/Cloudy	Surface	22.5	24.3	24.3	6.22	6.39	6.35	83.5	83.6	4.49	4.50	7.0	7.0	6.9		
			Middle	22.4	24.4	24.5	6.29	6.30	6.30	83.7	83.6	4.51	4.51	7.5	7.6			
			Bottom	22.2	24.5	24.5	6.02	6.01	6.01	80.1	80.0	5.02	5.01	7.7	7.7			
12/01/16	1405-1427	22/Cloudy	Surface	20.9	25.0	25.0	6.38	6.39	6.16	85.1	85.2	4.32	4.33	6.5	6.6	7.9		
			Middle	20.7	25.1	25.2	6.40	6.30	6.37	83.5	83.6	4.34	4.50	6.7	7.0			
			Bottom	20.5	25.2	25.2	6.37	6.33	6.16	83.7	81.7	4.62	4.61	7.3	7.2			
14/01/16	1523-1540	21/Cloudy	Surface	21.0	25.3	25.4	6.52	6.53	6.46	84.8	84.9	5.09	5.08	7.6	7.7	7.8		
			Middle	20.8	25.4	25.4	6.54	6.38	6.37	85.0	82.7	5.07	5.22	7.8	7.8			
			Bottom	20.7	25.5	25.6	6.30	6.31	6.31	82.6	81.4	5.23	5.35	7.9	7.9			
16/01/16	1735-1750	16/Drizzle	Surface	19.4	26.5	26.5	6.65	6.63	6.40	84.6	84.3	7.68	7.67	11.3	11.2	11.6		
			Middle	19.8	27.0	27.0	6.19	6.17	6.40	84.0	79.0	7.65	7.86	11.1	11.7			
			Bottom	19.9	27.3	27.4	6.02	6.04	6.04	77.4	77.6	7.95	7.97	11.8	11.9			

# Mid-Ebb Tide



東業維動測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FM2

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
19/01/16	0820-0835	17/Cloudy	Surface	19.3	27.5	27.5	6.62	6.60	6.34	84.5	84.3	5.07	5.04	7.6	7.5			
			Middle	19.9	27.8	6.10	6.08	78.9	78.7	5.98	5.96	9.0	8.9	8.5				
			Bottom	20.0	27.8	6.06	5.93	78.4	76.9	5.94	6.04	8.8	9.1					
21/01/16	1038-1055	16/Cloudy	Surface	18.9	28.2	28.2	5.95	6.66	5.93	77.1	85.5	6.02	7.38	10.9	10.8			
			Middle	18.8	30.3	6.67	6.52	6.59	85.3	83.7	7.41	7.58	10.7	11.2	11.0			
			Bottom	18.7	30.5	6.53	6.40	6.40	83.5	82.2	7.61	7.49	11.3	11.0				
23/01/16	1224-1242	10/Cloudy	Surface	16.5	30.6	30.7	6.42	6.51	6.44	82.5	77.0	7.46	4.57	7.0	#REF!			
			Middle	16.3	24.1	24.2	6.50	6.36	6.23	77.1	75.0	4.56	4.64	7.2	#REF!			
			Bottom	16.2	24.3	24.4	6.37	6.20	6.28	74.9	73.2	4.63	4.71	7.3	#REF!			
26/01/16	1354-1412	10/Cloudy	Surface	14.5	24.5	24.4	6.19	6.36	6.16	73.3	72.3	4.70	5.31	7.8	7.9			
			Middle	14.4	24.6	24.2	6.35	6.20	6.23	72.2	70.4	5.30	5.48	8.0	8.0			
			Bottom	14.2	24.3	24.4	6.21	6.46	6.28	70.5	69.4	5.47	5.56	7.9	8.3			
28/01/16	1514-1531	16/Cloudy	Surface	16.3	24.4	24.6	6.44	6.56	6.51	70.3	74.4	5.49	4.45	8.2	6.9			
			Middle	16.2	24.5	24.0	6.54	6.46	6.46	74.2	73.2	4.40	4.56	8.4	7.1			
			Bottom	16.1	24.0	24.1	6.47	6.37	6.37	73.0	72.2	4.53	4.66	7.0	7.3			
30/01/16	1624-1640	19/Fine	Surface	15.9	24.2	24.2	6.36	6.53	6.47	72.1	76.9	4.63	4.37	6.6	6.7			
			Middle	15.7	24.1	25.2	6.38	6.40	6.47	72.3	75.2	4.68	4.51	7.4	7.1			
			Bottom	15.5	25.1	25.3	6.52	6.26	6.26	76.8	73.4	4.36	4.67	6.6	7.1			

# Mid-Ebb Tide



東業德動測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FC2

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)		Dissolved Oxygen Saturation (%)		Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Depth-average	Value
02/01/16	1830-1848	24/Fine	Surface	23.0	24.0	6.29	6.30	84.1	84.2	5.24	5.25	7.6	7.7	7.9		
			Middle	22.9	24.2	6.25	6.24	83.5	83.3	5.33	5.34	7.8	7.9			
			Bottom	22.7	24.4	6.15	6.16	81.8	81.9	5.42	5.43	7.9	8.0			
05/01/16	0830-0847	18/Cloudy	Surface	19.6	24.2	6.22	6.21	78.3	78.1	4.97	5.01	7.4	7.5	7.7		
			Middle	19.4	24.3	6.07	6.06	76.3	76.1	5.10	5.14	7.6	7.7			
			Bottom	19.3	24.4	5.98	5.97	75.0	74.9	5.23	5.26	7.7	7.8			
07/01/16	1030-1048	23/Fine	Surface	23.0	24.0	6.27	6.26	83.0	83.3	4.47	4.48	6.7	6.8	7.2		
			Middle	22.9	24.2	6.11	6.10	84.0	83.9	4.55	4.56	7.1	7.2			
			Bottom	22.7	24.4	5.94	5.95	79.1	79.2	4.80	4.81	7.3	7.5			
09/01/16	1200-1218	22/Cloudy	Surface	22.6	25.2	6.41	6.42	85.5	85.6	3.85	3.86	5.7	5.8	6.0		
			Middle	22.5	25.4	6.31	6.32	83.8	83.9	3.94	3.95	6.0	6.0			
			Bottom	22.3	25.6	6.25	6.24	82.8	82.7	4.11	4.12	6.1	6.2			
12/01/16	1345-1403	22/Cloudy	Surface	21.0	25.2	6.22	6.23	80.7	80.8	5.17	5.18	7.6	7.7	7.8		
			Middle	20.8	25.3	6.05	6.04	78.3	78.2	5.26	5.27	7.8	7.9			
			Bottom	20.7	25.5	5.82	5.83	75.1	75.2	5.33	5.34	8.0	7.9			
14/01/16	1500-1517	21/Cloudy	Surface	20.9	25.4	6.49	6.50	84.4	84.5	5.01	5.02	7.5	7.6	7.7		
			Middle	20.8	25.6	6.36	6.35	82.4	82.3	5.10	5.11	7.6	7.6			
			Bottom	20.6	25.8	6.29	6.28	81.1	81.0	5.19	5.20	7.7	7.8			
16/01/16	1715-1730	16/Drizzle	Surface	19.5	26.3	6.82	6.81	86.7	86.5	7.24	7.22	10.8	10.7	11.2		
			Middle	19.9	26.9	6.14	6.16	78.8	79.1	7.66	7.64	11.3	11.2			
			Bottom	20.0	27.2	6.06	6.04	78.2	78.0	7.88	7.87	11.7	11.6			

# Mid-Ebb Tide



東星檢測顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : TM-FC2

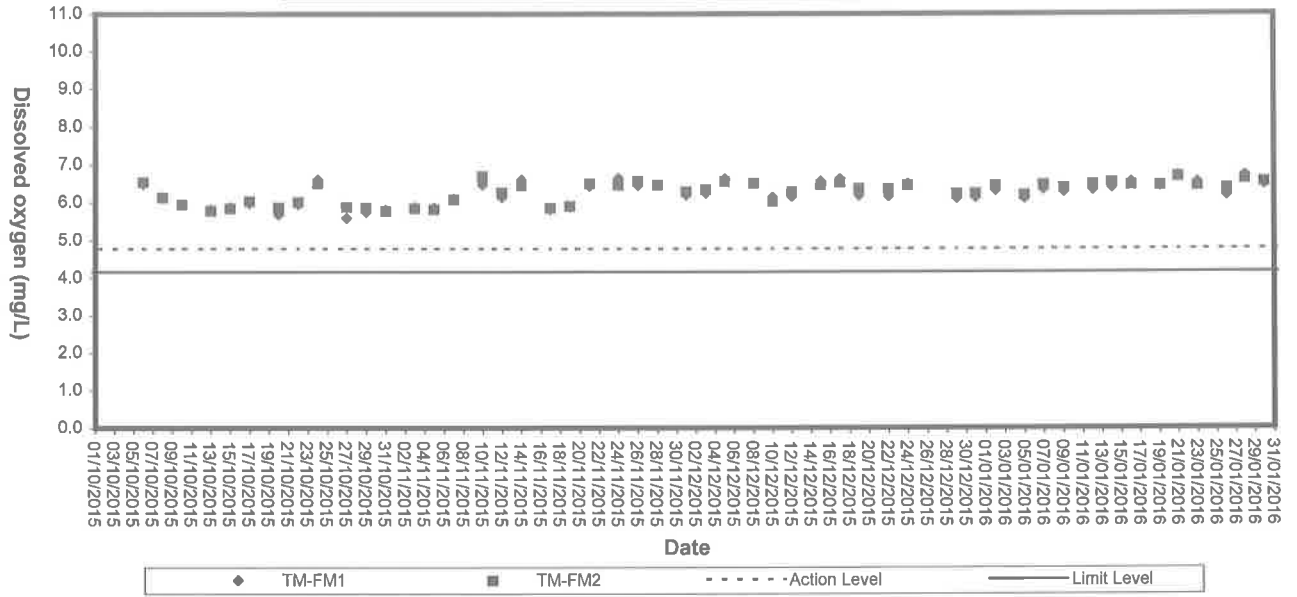
Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)		Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
			Surface	Bottom		Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average
19/01/16	0800-0815	17/Cloudy	Surface	1.0	19.3	27.3	27.3	6.59	6.58	6.40	83.8	83.6	5.15	5.17	7.6	7.7			
			Middle	8.2	19.8	27.9	6.23	6.22	6.40	80.4	80.2	5.78	5.77	7.8	8.6	8.4			
			Bottom	15.4	19.9	28.2	6.01	6.03	6.03	77.8	78.1	5.90	5.93	8.9	9.0	9.1			
21/01/16	1015-1032	16/Cloudy	Surface	1.0	18.8	30.3	30.4	6.58	6.60	6.53	84.6	84.8	7.46	7.49	10.9	11.0			
			Middle	8.1	18.8	30.5	6.48	6.46	6.53	83.2	83.0	7.66	7.63	11.3	11.2	11.0			
			Bottom	15.2	18.8	30.6	6.26	6.28	6.28	80.4	80.6	7.37	7.40	10.7	10.8	10.9			
23/01/16	1200-1218	10/Cloudy	Surface	1.0	16.4	23.9	24.0	6.64	6.65	6.54	78.6	78.7	4.33	4.34	6.4	6.6			
			Middle	8.3	16.3	24.1	6.43	6.42	6.54	75.8	75.7	4.46	4.47	6.8	6.9	6.9			
			Bottom	15.5	16.2	24.2	6.41	6.31	6.31	74.1	74.2	4.48	4.64	7.0	7.2	7.1			
26/01/16	1330-1348	10/Cloudy	Surface	1.0	14.6	23.9	24.0	6.22	6.21	6.17	70.5	70.6	5.11	5.12	7.6	7.7			
			Middle	8.3	14.5	24.1	6.13	6.12	6.17	69.5	69.4	5.23	5.24	7.7	7.7	7.8			
			Bottom	15.5	14.3	24.2	6.11	6.02	6.02	67.7	67.8	5.26	5.38	7.7	7.9	8.0			
28/01/16	1535-1553	16/Cloudy	Surface	1.0	16.3	23.9	24.0	6.52	6.51	6.47	73.9	73.8	4.53	4.56	7.5	7.6			
			Middle	8.2	16.2	24.1	6.43	6.44	6.47	72.9	73.0	4.64	4.68	7.2	7.2	7.3			
			Bottom	15.4	16.1	24.2	6.34	6.36	6.36	71.9	72.1	4.71	4.65	7.3	7.2	7.1			
30/01/16	1600-1618	19/Fine	Surface	1.0	16.1	25.0	25.1	6.47	6.46	6.40	76.3	76.4	4.30	4.31	6.5	6.6			
			Middle	8.3	15.9	25.2	6.35	6.34	6.40	74.6	74.5	4.47	4.48	7.4	7.5	7.6			
			Bottom	17.6	15.7	25.4	6.12	6.13	6.13	71.7	71.8	4.50	4.51	7.0	7.1	7.2			

## **Appendix C3**

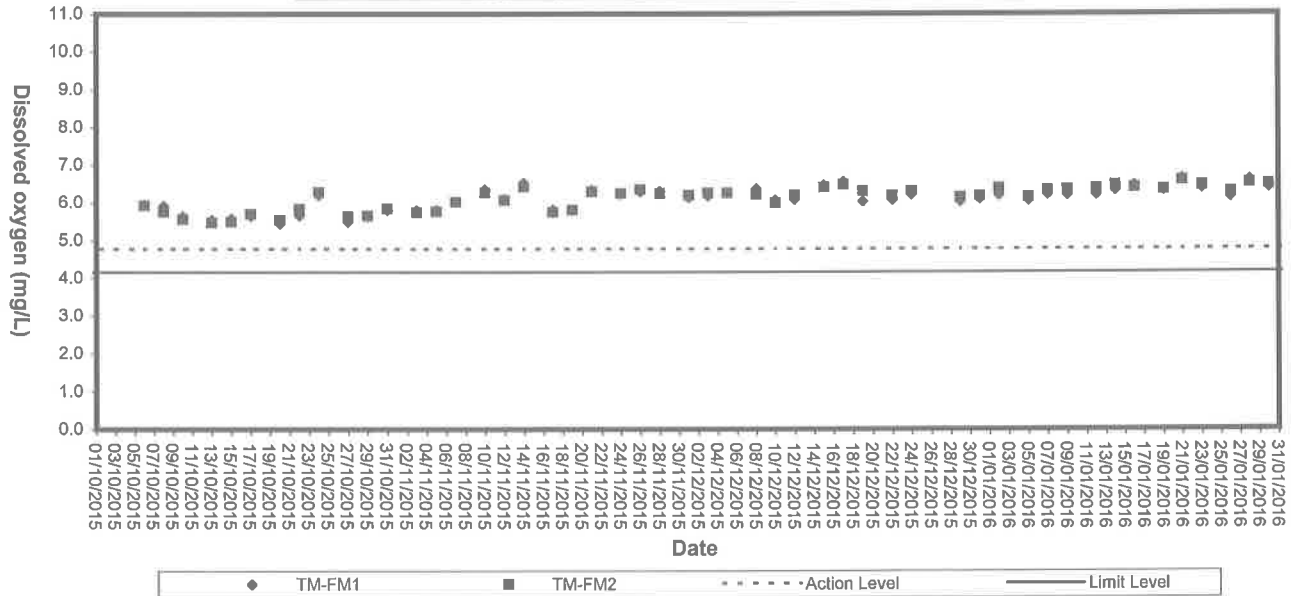
### **Graphical Plots of Impact Marine Water Quality Monitoring Data**

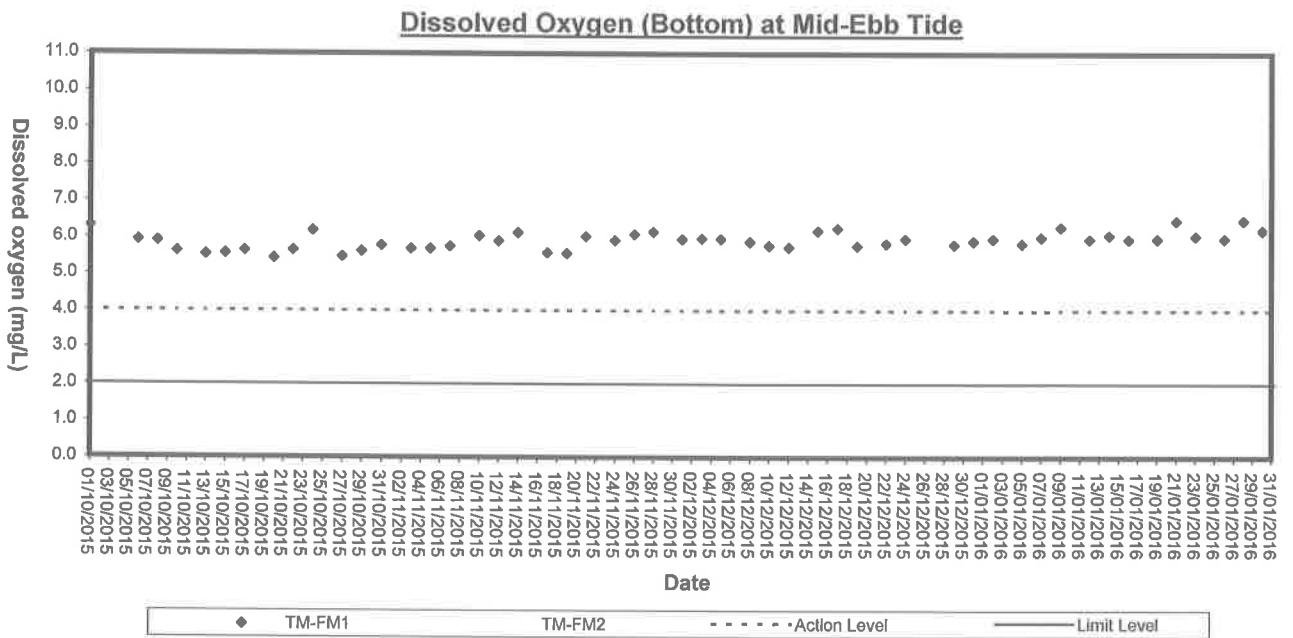
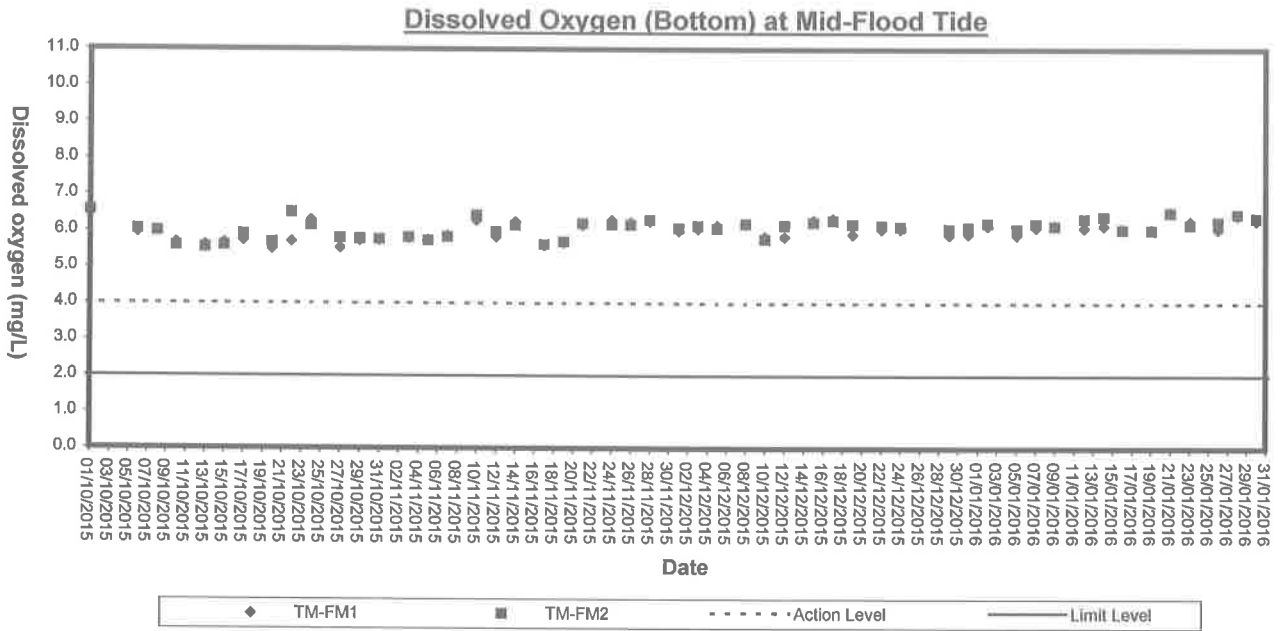


### Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



### Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

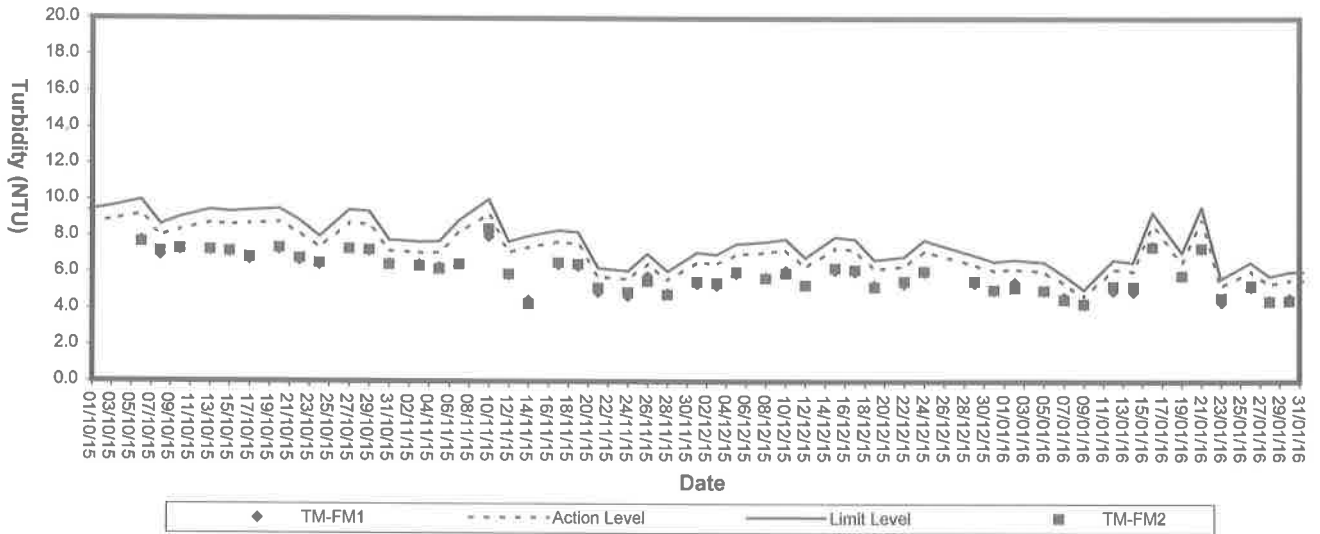




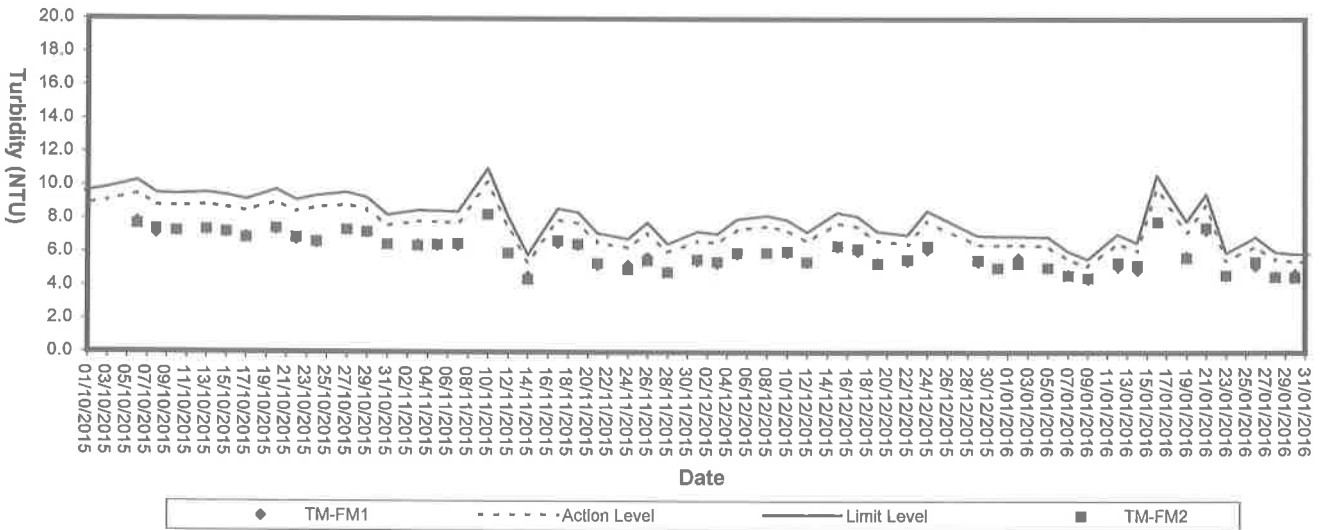




### Turbidity (Depth-average) at Mid-Flood Tide

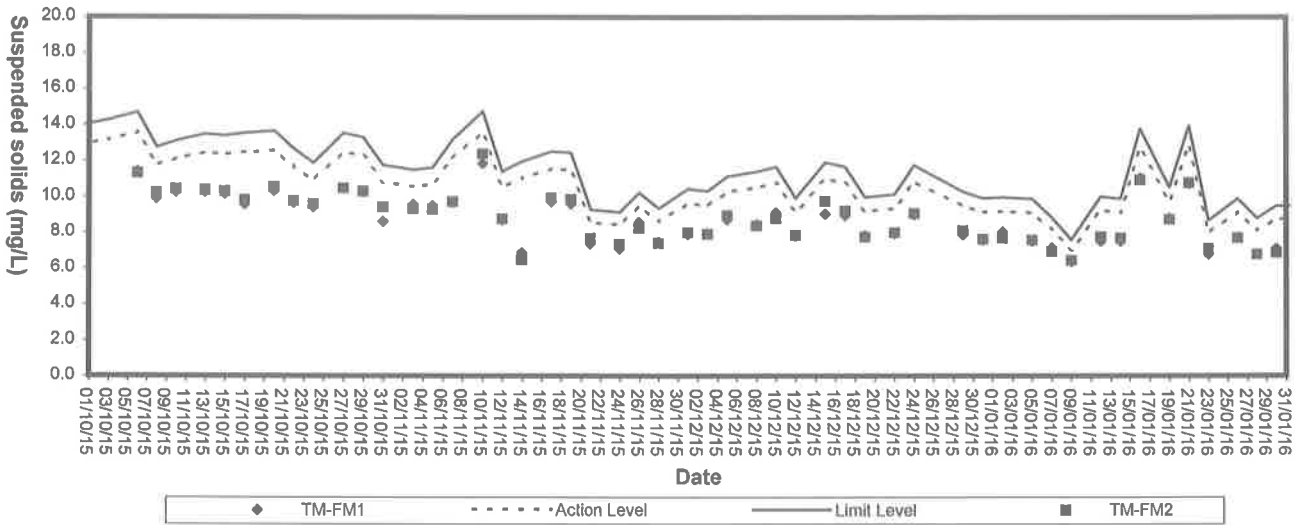


### Turbidity (Depth-average) at Mid-Ebb Tide

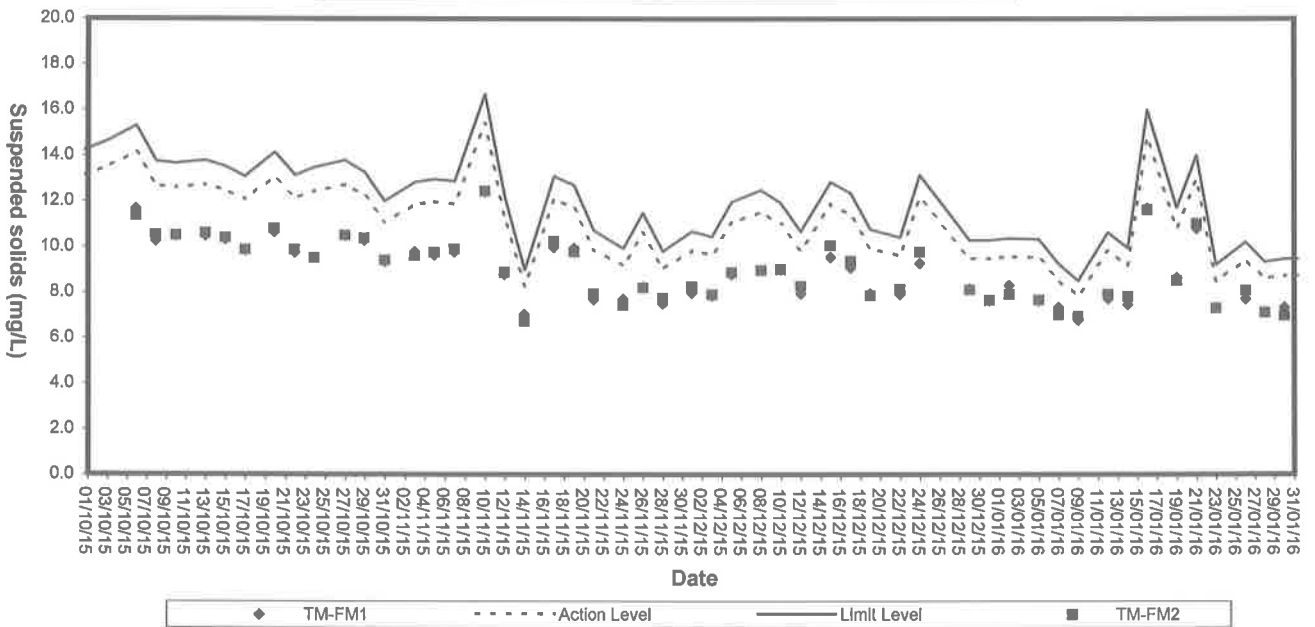




### Suspended solids (Depth-average) at Mid-Flood Tide



### Suspended Solids (Depth-average) at Mid-Ebb Tide





## Appendix D1

### Calibration Certificates for Impact Noise Monitoring Equipments



# Calibration Certificate

Certificate No. **508914**

Page 1 of 2 Pages

**Customer :** ETS-Testconsult Limited

**Address :** 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

**Order No. :** Q53461

**Date of receipt :** 13-Oct-15

## Item Tested

**Description :** Sound Level Calibrator (ET/EN/002/01)

**Manufacturer :** Rion

**Model :** NC-73

**Serial No. :** 10196943

## Test Conditions

**Date of Test :** 29-Oct-15

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

## Test Results

All results were within the manufacturer's specification.

The results are shown in the attached page(s).


Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	505317	NIM-PRC & SCL-HKSAR
S240	Sound Level Calibrator	500563	NIM-PRC & SCL-HKSAR
S041	Universal Counter	506951	SCL-HKSAR
S206	Sound Level Meter	506958	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).  
The test results apply to the above Unit-Under-Test only

**Calibrated by :**   
Alan Chu

**Approved by :**   
Steve Kwan

**Date:** 29-Oct-15

This Certificate is issued by:  
Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.  
Tel: 2425 8801 Fax: 2425 8646

The copyright of this certificate is owned by Hong Kong Calibration Ltd. It may not be reproduced except in full.



# Calibration Certificate

Certificate No. 508914

Page 2 of 2 Pages

Results :

## 1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	94.1 dB	$\pm 1$ dB

Uncertainty :  $\pm 0.2$  dB

## 2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	1.014 kHz	$\pm 2$ %

Uncertainty :  $\pm 0.1$  %

## 3. Level Stability : 0.0 dB

Uncertainty :  $\pm 0.01$  dB

## 4. Total Harmonic Distortion : $< 1.0$ %

Mfr's Spec. :  $< 3$  %

Uncertainty :  $\pm 2.3$  % of reading

- Remarks:
1. UUT : Unit-Under-Test
  2. The uncertainty claimed is for a confidence probability of not less than 95%.
  3. Atmospheric Pressure : 1013 hPa

----- END -----



# Calibration Certificate

Certificate No. **510573**

Page 1 of 3 Pages

**Customer :** ETS-Testconsult Limited

**Address :** 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

**Order No. :** Q54057

**Date of receipt :** 30-Nov-15

## Item Tested

**Description :** Precision Integrating Sound Level Meter (ET/EN/003/12)

**Manufacturer :** Rion

**Model :** NL-31

**Serial No. :** 00773032

## Test Conditions

**Date of Test :** 7-Dec-15

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure : Z01, IEC 651 and IEC 804.

## Test Results

All results were within the IEC 651 Type1 and IEC 804 Type1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C147450	SCL-HKSAR
S240	Sound Level Calibrator	500563	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

**Calibrated by :**   
Alan Chu

**Approved by :**   
Steve Kwan

**Date:** 7-Dec-15

This Certificate is issued by  
Hong Kong Calibration Ltd.  
Unit 8B, 24/F, Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong  
Tel: 2425 8801 Fax: 2425 8646



# Calibration Certificate

Certificate No. **510573**

Page 2 of 3 Pages

Results :

## 1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Response		
20 – 100	L <sub>A</sub>	Fast	94.0	94.3
		Slow		94.3
	L <sub>C</sub>	Fast		94.3
	L <sub>p</sub>	Fast		94.3
30 – 120	L <sub>A</sub>	Fast	94.0	94.2
		Slow		94.2
	L <sub>C</sub>	Fast		94.2
	L <sub>p</sub>	Fast		94.3
30 – 120	L <sub>A</sub>	Fast	114.0	114.2
		Slow		114.2
	L <sub>C</sub>	Fast		114.2
	L <sub>p</sub>	Fast		114.3

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB  
Uncertainty :  $\pm 0.1$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB  
Uncertainty :  $\pm 0.1$  dB

## 3. Linearity

### 3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
130	114.0	114.3	+ 0.1	$\pm 0.7$ dB
130	104.0	104.3	+ 0.1	
120	94.0	94.2 (Ref.)	--	
110	84.0	84.2	0.0	
100	74.0	74.2	0.0	
90	64.0	64.3	+ 0.1	
80	54.0	54.2	0.0	

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

Certificate No. **510573**

Page 3 of 3 Pages

## 3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.2	0.0	± 0.4 dB
	94.0	94.2 (Ref.)	--	
	95.0	95.2	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB

## 4. Frequency Weighting - A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.6	- 39.4 dB, ± 1.5 dB
63 Hz	- 26.3	- 26.2 dB, ± 1.5 dB
125 Hz	- 16.2	- 16.1 dB, ± 1 dB
250 Hz	- 8.7	- 8.6 dB, ± 1 dB
500 Hz	- 3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref.)	0 dB, ± 1 dB
2 kHz	+ 1.2	+ 1.2 dB, ± 1 dB
4 kHz	+ 1.1	+ 1.0 dB, ± 1 dB
8 kHz	- 1.1	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	- 6.4	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB

## 5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	---
1/10	40.0	39.9	± 0.5 dB
1/10 <sup>2</sup>	40.0	39.9	
1/10 <sup>3</sup>	40.0	39.9	± 1.0 dB
1/10 <sup>4</sup>	40.0	39.9	

Uncertainty : ± 0.1 dB

- Remarks:
1. UUT : Unit-Under-Test
  2. The uncertainty claimed is for a confidence probability of not less than 95%.
  3. Atmospheric Pressure : 1018 hPa
  4. The UUT's internal calibration was performed before the calibration.

----- END -----





# Calibration Certificate

Certificate No. 505086

Page 1 of 4 Pages

**Customer :** ETS-Testconsult Limited

**Address :** 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

**Order No. :** Q51999

**Date of receipt :** 15-Jun-15

## Item Tested

**Description :** Sound Level Meter (ET/EN/003/15)

**Manufacturer :** Rion

**Model :** NL-52

**Serial No. :** FADED

## Test Conditions

**Date of Test :** 30-Jun-15

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure: Z01, IEC 61672.

## Test Results

All results were within the IEC 61672 Type1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C147450	SCL-HKSAR
S240	Sound Level Calibrator	500563	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

**Calibrated by :**   
Dorothy Cheuk

**Approved by :**   
Steve Kwan

This Certificate is issued by  
Hong Kong Calibration Ltd.  
Unit 0B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong  
Tel: 2425 8801 Fax: 2425 8646

**Date:** 30-Jun-15



# Calibration Certificate

Certificate No. **505086**

Page 2 of 4 Pages

Results :

1. **Self-generated noise:** 13.5 dBA (Mfr's Spec  $\leq 17$  dBA )

2. **Acoustical signal test**

UUT Setting				Applied Value (dB)	UUT Reading (dB)	
Range (dB)	Frequency Weighting	Time Weighting	Octave Filter			
30-130	A	F	OFF	94.0	93.7	
		S	OFF		93.7	
	C	F	OFF		93.7	
	Z	F	OFF		93.7	
	A	F	OFF	114.0	113.7	
			S		OFF	113.7
		C	F		OFF	113.7
		Z	F		OFF	113.7

IEC 61672 Type 1 Spec. :  $\pm 1.1$  dB

Uncertainty :  $\pm 0.1$  dB

3 **Electrical signal tests of frequency weightings (A weighting)**

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.7	- 39.4 dB, $\pm 2$ dB
63 Hz	-26.2	- 26.2 dB, $\pm 1.5$ dB
125 Hz	-16.1	- 16.1 dB, $\pm 1.5$ dB
250 Hz	-8.6	- 8.6 dB, $\pm 1$ dB
500 Hz	-3.2	- 3.2 dB, $\pm 1.4$ dB
1 kHz	0.0 (Ref)	0 dB, $\pm 1.1$ dB
2 kHz	+1.1	+ 1.2 dB, $\pm 1.6$ dB
4 kHz	+0.7	+ 1.0 dB, $\pm 1.6$ dB
8 kHz	-1.1	- 1.1 dB, + 2.1 dB $\sim$ -3.1 dB
16 kHz	-8.5	- 6.6 dB, + 3.5 dB $\sim$ - 17.0 dB

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

Certificate No. 505086

Page 3 of 4 Pages

## 4. Frequency & Time weightings at 1 kHz

### 4.1 Frequency Weighting (Fast)

UUT Setting	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
A	94.0	93.7 (Ref.)	--	± 0.4 dB
C	94.0	93.7	0.0	
Z	94.0	93.7	0.0	

### 4.2 Time Weighting (A-weighted)

UUT Setting	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
Fast	94.0	93.7 (Ref.)	--	± 0.3 dB
Slow	94.0	93.7	0.0	
Time-averaging	94.0	93.7	0.0	

Uncertainty : ± 0.1 dB

## 5. Level linearity on the reference level range

UUT Range	Applied Value (dB)	UUT Reading (dB)	Difference (dB)	IEC 61672 Type 1 Spec.
30-130 dB (Ref Level)	129.0	129.0	0.0	± 1.1 dB
	124.0	124.0	0.0	
	119.0	119.0	0.0	
	114.0	113.7 (Ref)	--	
	109.0	109.0	0.0	
	104.0	104.0	0.0	
	99.0	99.0	0.0	
	94.0	94.0	0.0	
	89.0	89.0	0.0	
	84.0	84.0	0.0	
	79.0	79.0	0.0	
	74.0	74.0	0.0	
	69.0	69.0	0.0	
	64.0	64.0	0.0	
	59.0	59.0	0.0	
	54.0	54.0	0.0	
	49.0	49.0	0.0	
44.0	44.0	0.0		

Uncertainty : ± 0.1 dB



# Calibration Certificate

Certificate No. **505086**

Page 4 of 4 Pages

## 6. Toneburst response (4kHz)

UUT Setting	Tone Burst Duration(ms)	UUT Reading(dB)	Difference (dB)	IEC 61672 Type 1 Spec.
Fast	Steady	127.0(Ref)	--	--
	200	126.0	0.0	-1.0 ± 0.8dB
	2	108.9	-18.1	-18.0, +1.3 dB ~ -1.8 dB
	0.25	99.9	-27.1	-27.0, +1.3 dB ~ -3.3 dB
Slow	Steady	127.0(Ref)	--	--
	200	119.5	-7.5	-7.4 ± 0.8dB
	2	99.9	-27.1	-27.0, +1.3 dB ~ -3.3 dB
Time averaging	Steady	127.0(Ref)	--	--
	200	120.4	-6.6	-7.0±0.8dB
	2	100.2	-26.8	-27.0, +1.3 dB ~ -1.8 dB
	0.25	92.7	-34.3	-36.0, +1.3 dB ~ -3.3 dB

Uncertainty : ± 0.1 dB

## 7. Overload indication (30-130 dB range, A-weighted, Time-average, 4kHz)

UUT Reading at overload (dB)		Difference (dB)	IEC 61672 Type 1 Spec.
+ ve one half cycle	- ve one half cycle		
136.8	136.8	0.0	< 1.8 dB

The overload indicator latched on until reset

Uncertainty : ± 0.1 dB

Remarks : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 1012 hPa.

4. Preamplifier model : NH-25 , S/N : 20852

5. Firmware Version: 1.2

6. Power Supply Check: OK

7. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----

## **Appendix D2**

### **Impact Noise Monitoring Results**

## Day-time Noise Monitoring

### Monitoring Location: TM-RN1 \*

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L <sub>eq</sub> (30min)	L <sub>10</sub>	L <sub>90</sub>		
05/01/16	10:38	55.1	59.4	52.4	0.3	Cloudy
07/01/16	13:00	56.8	58.4	52.7	0.3	Cloudy
14/01/16	09:30	57.1	59.2	55.4	0.3	Fine
16/01/16	09:40	56.6	58.5	52.9	0.3	Drizzle
19/01/16	08:55	61.0	63.9	58.4	0.3	Fine
21/01/16	11:10	56.1	57.9	50.4	0.3	Cloudy
26/01/16	09:15	55.9	57.6	50.2	0.3	Cloudy
28/01/16	09:20	52.4	55.8	50.9	0.2	Cloudy

Remark: Since Lands Department did not approve us to enter their own area where the noise monitoring stations TM-N1 located due to the security, noise monitoring was carried out at noise monitoring stations TM-RN1 (refer to the figure 3 attached) in this reporting month.

### Monitoring Location: TM-RN2 \*

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L <sub>eq</sub> (30min)	L <sub>10</sub>	L <sub>90</sub>		
05/01/16	10:41	57.3	60.0	54.1	0.3	Cloudy
07/01/16	13:05	57.4	59.6	53.1	0.3	Cloudy
14/01/16	09:35	56.3	58.6	54.0	0.3	Fine
16/01/16	09:45	57.4	59.0	53.3	0.4	Drizzle
19/01/16	09:00	62.3	64.2	60.9	0.2	Fine
21/01/16	11:15	56.8	58.4	51.1	0.3	Cloudy
26/01/16	09:20	56.4	58.1	51.4	0.3	Cloudy
28/01/16	09:50	53.2	56.7	51.4	0.3	Cloudy

Remark: Since Lands Department did not approve us to enter their own area where the noise monitoring stations TM-N2 located due to the security, noise monitoring was carried out at two noise monitoring stations TM-RN2 (refer to the figure 3 attached) in this reporting month.

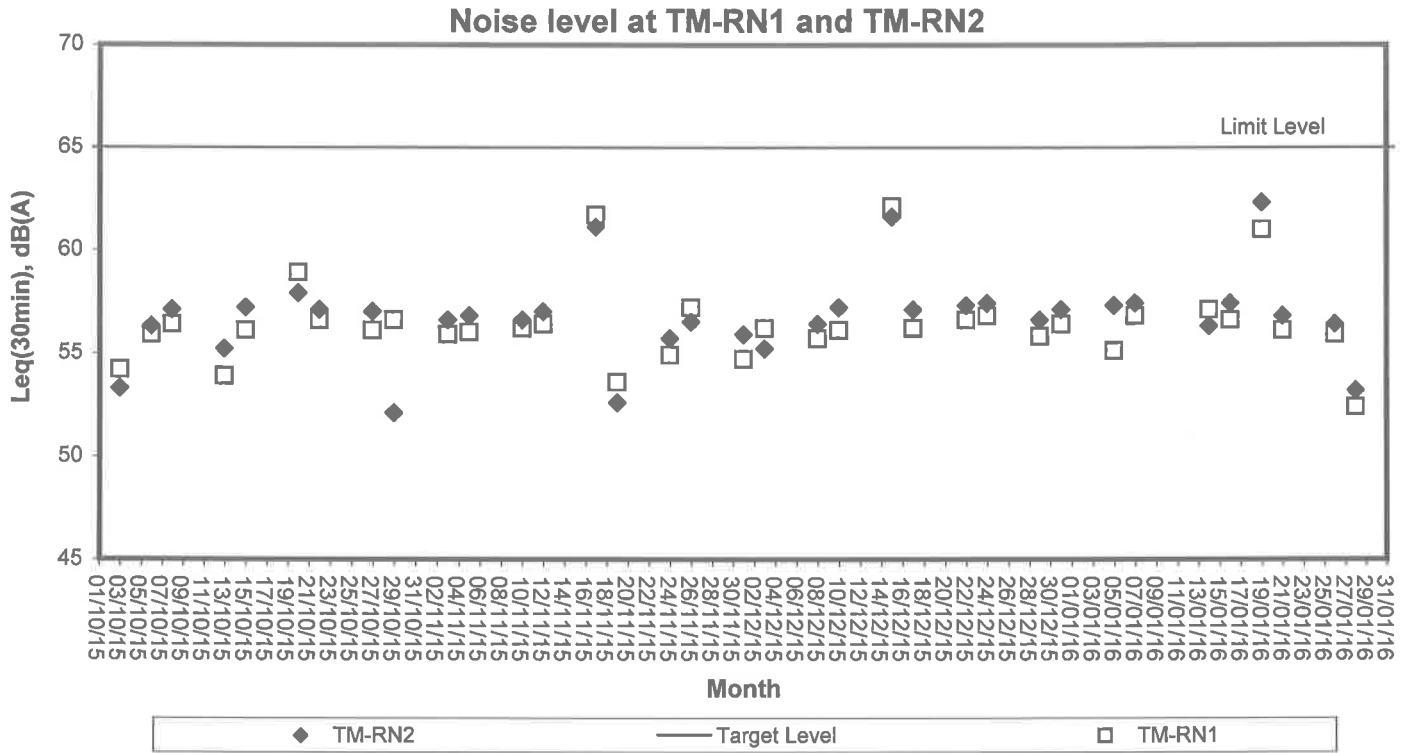


## Appendix D3

### Graphical Plots of Impact Noise Monitoring Data



## Noise Monitoring (Day-time)







## **Appendix E**

### **Weather Condition**

## Daily Extract of Meteorological Observations, January 2016 – Tuen Mun

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
1	***	22.0	18.4	16.0	13.1	72	0.0	***	***
2	***	22.3	18.8	15.4	14.8	79	0.0	***	***
3	***	20.1	19.2	18.0	18.4	96	4.5	***	***
4	***	23.9	21.1	19.1	19.2	89	0.0	***	***
5	***	22.0	21.0	19.4	20	94	3.0	***	***
6	***	25.9	21.3	18.4	17.3	79	0.5	***	***
7	***	23.3	18.6	16.2	13.5	73	0.0	***	***
8	***	22.5	18.1	15.3	13.5	75	0.0	***	***
9	***	21.9	18.2	14.8	13.4	74	0.0	***	***
10	***	19.8	18.4	17.1	15.5	84	8.0	***	***
11	***	21.6	17.9	16.0	15.7	87	29.5	***	***
12	***	18.4	16.5	15.4	11.7	73	0.0	***	***
13	***	21.3	15.7	12.5	10.7	73	0.0	***	***
14	***	19.7	15.7	13.8	12.2	80	2.0	***	***
15	***	15.0	14.3	13.7	13.8	97	39.5	***	***
16	***	18.6	16.9	14.5	15.9	94	12.0	***	***
17	***	19.6	17.5	14.5	15.8	90	18.5	***	***
18	***	18.2	14.8	11.0	9.1	69	0.0	***	***
19	***	17.8	16.0	14.5	10.9	72	0.0	***	***
20	***	17.0	15.8	15.0	13.9	89	4.5	***	***
21	***	16.4	15.5	13.8	14.6	94	0.5	***	***
22	***	13.8	11.8	9.0	11.1	95	27.0	***	***
23	***	9.1	7.5	6.6	2.7	72	0.0	***	***
24	***	6.8	4.1	2.3	-2.7	63	5.5	***	***
25	***	12.2	7.0	3.6	-6.9	37	0.0	***	***
26	***	11.5	8.3	6.5	-0.2	58	0.0	***	***
27	***	16.0	11.5	7.3	10.2	92	9.5	***	***
28	***	17.6	15.9	13.0	15.6	98	71.0	***	***
29	***	18.3	16.7	16.0	16.1	96	37.5	***	***
30	***	19.7	17.5	16.1	15.1	86	0.0	***	***
31	***	17.9	16.4	15.5	13.5	83	1.0	***	***

\*\* unavailable

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected



## **Appendix F**

### **Event-Action Plans**

## EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

EVENT	ACTION			Contractor
	ET Leader	IC(E)	ER	
	<b>ACTION LEVEL</b>			
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Inform ER, IC(E) and Contractor</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by the ET</li> <li>Check contractor's working method</li> </ol>	<ol style="list-style-type: none"> <li>Notify Contractor</li> </ol>	<ol style="list-style-type: none"> <li>Rectify any unacceptable practise</li> <li>Amend working methods if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Inform IC(E) and Contractor</li> <li>Repeat measurements to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>Discuss with IC(E) and Contractor on remedial actions</li> <li>If exceedance continues, arrange meeting with IC(E) and ER.</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by the ET</li> <li>Check the Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise the ER on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing</li> <li>Notify the Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>
	<b>LIMIT LEVEL</b>			
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Inform ER, Contractor and EPD</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by the ET</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise the ER on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing</li> <li>Notify the Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate.</li> </ol>

## EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

EVENT	ACTION			Contractor
	ET Leader	IC(E)	ER	
<p>2. Exceedance for two or more consecutive samples</p>	<ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Notify IC(E), ER, EPD and Contractor</li> <li>3. Repeat measurement to confirm finding</li> <li>4. Increase monitoring frequency to daily</li> <li>5. Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented</li> <li>6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results</li> <li>8. If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET and Contractor on the potential remedial actions</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly</li> <li>3. Supervise the implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify Contractor</li> <li>3. In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. If exceedances continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedances</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>3. Implement the agreed proposals</li> <li>4. Resubmit proposals if problem still not under control</li> <li>5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol>

## EVENT/ACTION PLAN FOR NOISE EXCEEDANCE

EVENT	ACTION			
	ET Leader	IC(E)	ER	Contractor
Action Level	<ol style="list-style-type: none"> <li>1. Notify the IC(E) and the Contractor.</li> <li>2. Carry out investigation.</li> <li>3. Report the results of investigation to the IC(E) and the Contractor.</li> <li>4. Discuss with the Contractor and formulate remedial measures.</li> <li>5. Increase monitoring frequency to check mitigation effectiveness</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET.</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IC(E).</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol style="list-style-type: none"> <li>1. Notify the IC(E), the ER, the EPD and the Contractor.</li> <li>2. Identify source.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency.</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>6. Inform the IC(E), the ER and the EPD the causes &amp; actions taken for the exceedances.</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results</li> <li>8. If exceedance due to the construction works stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions.</li> <li>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedances continue, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedances is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification.</li> <li>3. Implement the agreed proposals.</li> <li>4. Resubmit proposals if problem still not under control.</li> <li>5. Stop the relevant activity of works as determined by the ER until the exceedances is abated.</li> </ol>

## EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION			
	ET Leader	Contractor	ER	IEC
<p>Action level being exceeded by one sampling day</p>	<ol style="list-style-type: none"> <li>1. Identify source(s) of impact; Repeat in-situ measurement to confirm findings;</li> <li>3. Notify Contractor in writing within 24 hours of identification of the exceedance</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with Contractor if exceedance is due to the construction works within 4 working days</li> <li>8. Repeat measurement on next day of exceedance if exceedance is due to the construction works</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify the ER and IEC in writing within 24 hours of identification of exceedance</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Submit investigation report to IEC and ER within 3 working days of the identification of an exceedance</li> <li>5. Consider changes of working method if exceedance is due to the construction works</li> <li>6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER if exceedance is due to the construction works within 4 working days of identification of an exceedance</li> <li>7. Implement the agreed mitigation measures within reasonable time scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Require contractor to propose remedial measures for the analysed problem if related to the construction works</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the mitigation measure</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures</li> <li>4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly</li> <li>5. Supervise the implementation of mitigation measures</li> </ol>

## EVENT AND ACTION PLAN FOR WATER QUALITY

Event	ACTION			
	ET Leader	Contractor	ER	IEC
<p>Action level being exceeded by more than one consecutive sampling days</p>	<ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Repeat in-situ measurement to confirm findings</li> <li>3. Notify Contractor in writing within 24 hours of identification</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance</li> <li>8. Ensure mitigation measures are implemented;</li> <li>9. Prepare to increase the monitoring frequency to daily;</li> <li>10. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify IEC and ER in writing within 24 hours of identification of exceedance</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance</li> <li>6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of identification of an exceedance</li> <li>7. Implement the agreed mitigation measures within reasonable time scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Require contractor to propose remedial measures for the analysed problem if related to the construction works</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the mitigation measure</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures.</li> <li>4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly</li> <li>5. Assess the effectiveness of the implemented mitigation measures.</li> </ol>

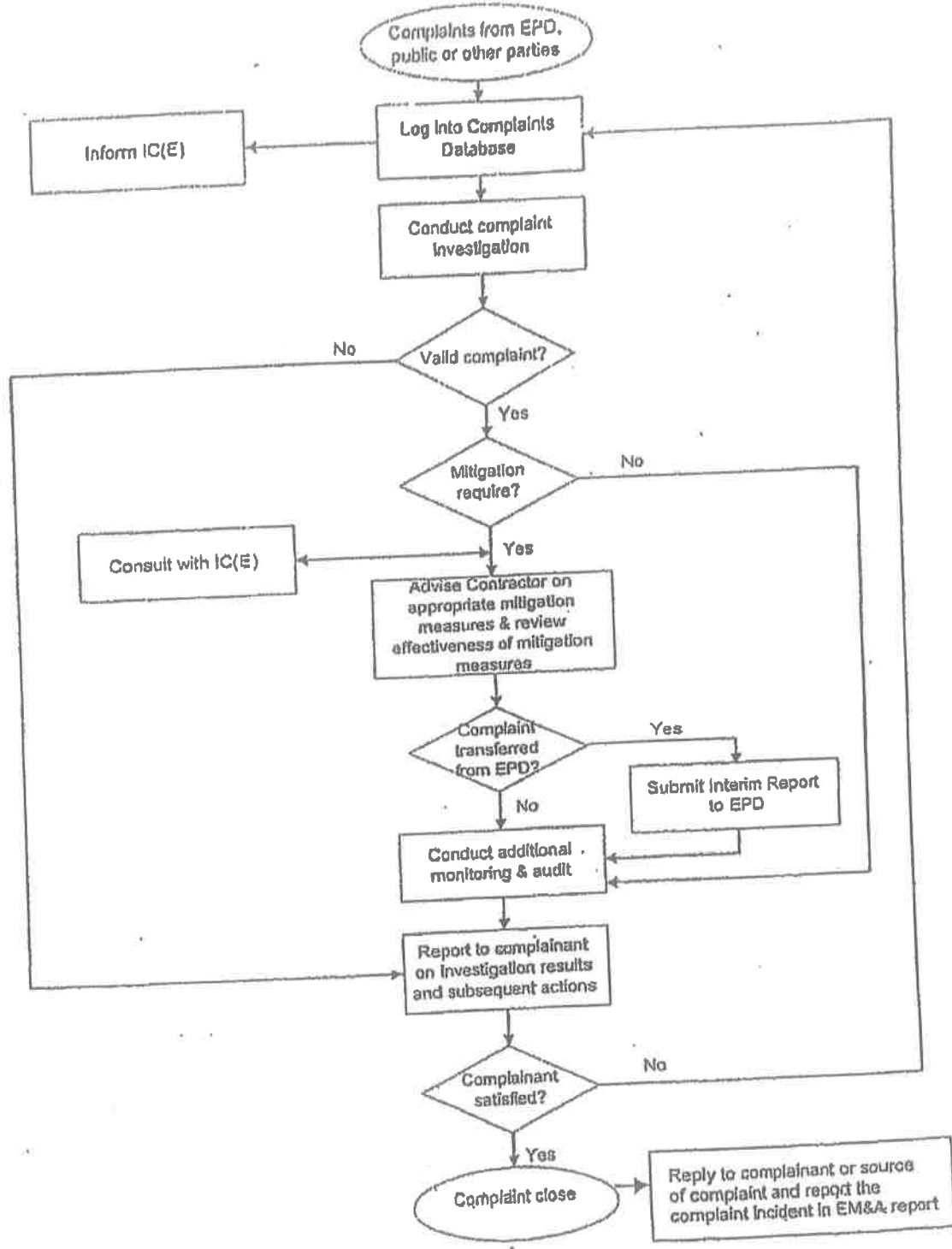


## EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION			IEC
	ET Leader	Contractor	ER	
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm findings;</li> <li>2. Identify source(s) of impact;</li> <li>3. Notify Contractor in writing within 24 hours of identification of the exceedance</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with IEC, ER and Contractor within 4 working of identification of an exceedance</li> <li>8. Ensure mitigation measures are implemented;</li> <li>9. Increase the monitoring frequency to daily until no exceedance of Limit Level.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify IEC and ER in writing; within 24 hours of the identification of the exceedance</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance</li> <li>6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of the identification of an exceedance</li> <li>7. Implement the agreed mitigation measures within reasonable time scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Request Contractor to critically review the working methods;</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures.</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly.</li> <li>5. Assess the effectiveness of the implemented mitigation measures</li> </ol>

## EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION			IEC
	ET Leader	Contractor	ER	
<p>Limit Level being exceeded by more than one consecutive sampling days</p>	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm findings;</li> <li>2. Identify source(s) of impact;</li> <li>3. Notify Contractor in writing within 24 hours of identification of the exceedance</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with IEC, ER and Contractor;</li> <li>8. Ensure mitigation measures are implemented;</li> <li>9. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify ER and IEC in writing within 24 hours of the identification of the exceedance and Rectify unacceptable practice;</li> <li>2. Check all plant and equipment;</li> <li>3. Consider changes of working methods;</li> <li>4. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days;</li> <li>6. Implement the agreed mitigation measures within reasonable time scale</li> <li>7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Request Contractor to critically review the working methods;</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the implemented mitigation measures;</li> <li>6. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ER, ET and Contractor on the mitigation measures.</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly.</li> <li>5. Assess the effectiveness of the implemented mitigation measures.</li> </ol>



Contract No. CV/2013/06  
 Handling of Surplus Public Fill (2014-2016)

Figure 4  
 Environmental Complaint Handling Procedure –  
 Tuen Mun Area 38 Fill Bank



## **Appendix G**

# **Construction Programme**

Master Programme of Contract No. CV/2013/06 - Handling of Surplus Public Fill

Site Location : Tuen Mun Area 38 Fill Bank

ID	Activity	Original Duration	Start	Finish
A1240	Take Over	0	23-Jan-14	
A1220	Operation	1100	23-Jan-14	26-Jan-17
A1250	Hand Over to CEDD	0		26-Jan-17
Stage B1 Surveillance System		120	28-Nov-13	27-May-14
A1190	Submission	30	28-Nov-13	27-Dec-13
A1200	Approval by Engineer	7	28-Dec-13	03-Jan-14
A1210	Installation	64	23-Jan-14	27-May-14
A1230	Hand Over to Engineer	0		27-May-14



## Appendix H



### Weekly ET's Site Inspection Record



CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill(2014-2016) - Tuen Mun Area 38 Fill Bank

Inspection Date : 7/1/16  
 Time : 10:00  
 Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy  
 Wind : Calm / Light / Breeze / Strong  
 Temperature : 19°C  
 Humidity : High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contractor	ET
Signature:			Mark
Name:	LEE KI LING	Eric Wan	Mark Yui Wai
Title	LOW/P3	SUB OFFICER	E.T

CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill (2014 – 2016) - Tuen Mun Area 38 Fill Bank

Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
<b>Fugitive Dust Emission</b>				
▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.	✓			
▪ Water sprays shall be provided and used to dampen materials.	✓			
▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	✓			
▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	✓			
▪ Unpaved areas should be watered regularly to avoid dust generation.	✓			
▪ The designated site main haul road shall be paved or regular watering.	✓			
▪ The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	✓			
▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	✓			
▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	✓			
▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	✓			
▪ Vehicle and equipment should be switched off while not in use.	✓			
▪ All plant and equipment should be well maintained e.g. without black smoke emission.	✓			
▪ Open burning should be prohibited.	✓			
<b>Noise Impact</b>				
▪ The approved method of working, equipment, and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	✓			
▪ The constructions works should be scheduled to minimize noise nuisance.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			
▪ Air compressors and hand held breakers should have noise labels.	✓			
▪ Compressors and generators should operate with door closed.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Noisy equipment and mobile plant shall always be site away from NSRs.	✓			



CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill (2014 – 2016) - Tuen Mun Area 38 Fill Bank

Environmental Checklist	Implementation Stages*		Remark
	Yes	No / N/A	
<b>Water Quality</b>			
Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	✓		Item 1
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	✓		
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	✓		
The material shall be properly covered to prevent washed away especially before rainstorm.	✓		
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	✓		
Final slope surfaces, especially those facing to the north of the site shall be treated by hydroseeding, vegetation planting or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓		
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	✓		
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	✓		
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	✓		
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	✓		
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	✓		
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	✓		
The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	✓		
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	✓		
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	✓		
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	✓		
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	✓		
A waste collection vessel shall be deployed to remove floating debris.	✓		
<b>Landscape and Visual</b>			
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	✓		
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	✓		
Stockpile of public fill shall be removed in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable.	✓		
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	✓		
Lighting shall be set to minimise night-time glare.	✓		

CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill (2014 – 2016) - Tuen Mun Area 38 Fill Bank

Implementation Stages*	Remark	
	Yes	No / N/A
<b>Environmental Checklist</b>		
<b>Waste Management</b>		
<b>Construction Waste Management</b>		
✓		Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.
✓		Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.
✓		Mud and debris should be removed from waterworks access roads and associated drainage systems.
✓		Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.
✓		Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.
✓		Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.
✓		In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.
✓		Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.
<b>Chemical Waste Management</b>		
✓		It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.
✓		After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.
✓		Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.
✓		Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.
✓		Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.
✓		The designated chemical waste storage area should only be used for storing chemical wastes.
✓		The set-up of chemical waste storage area should
✓		Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.
✓		Be enclosed on at least 3 sides and securely closed.
✓		Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.
✓		Have adequate ventilation.
✓		Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).
✓		Be arranged so that incompatible materials are adequately separated.

CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill (2014 – 2016) - Tuen Mun Area 38 Fill Bank

Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
Warning panels should be displayed at the waste storage area.	✓			
Waste storage area should be cleaned and maintained regularly.	✓			
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	✓			
All generators, fuel and oil storage should be within bundle areas.	✓			
Oil leakage from machinery, vehicle and plant should be prevented.	✓			
In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	✓			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	✓			
<b>Good Site Practices</b>				
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	✓			
Training of site personnel in proper waste management and chemical handling procedures should be provided.	✓			
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	✓			
Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	✓			
The Environmental Permit should be displaced conspicuously on site.	✓			
Construction noise permits should be posted at site entrance or available for site inspection.	✓			
Construction materials should be stored in a way to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
Chemical storage area provided with lock and located on sealed areas.	✓			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	✓			
Any unused chemicals or those with remaining functional capacity should be recycled.	✓			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	✓			
To encourage collection of aluminium cans by individual collectors.	✓			
Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	✓			
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	✓			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	✓			


CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill (2014 – 2016) - Tuen Mun Area 38 Fill Bank

**Summary of the Weekly Site Inspection:**

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Mud and silt were accumulated inside the main drainage channel.	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	160107_001	Yes	14/01/16

Remark

Name	Title	Signature	Date
Linda Law	Senior Environmental Officer		07 January 2016

Photo



Photo 160107\_001 (Main drainage channel)



英業泰動測儀器有限公司  
ETS-TESTCONSULT LIMITED

CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill (2014-2016) - Tuen Mun Area 38 Fill Bank

Inspection Date : 14.1.16

Time : 10:00

Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy

Wind : Calm / Light / Breeze / Strong

Temperature : 22<sup>o</sup>C

Humidity : High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contractor	ET
Signature:			
Name:	Eric Wan	Eric Wan	Eric Wan
Title	low / 103	EO	ET

	Environmental Checklist	Implementation Stages*			Remark
		Yes	No	N/A	
<b>Fugitive Dust Emission</b>					
▪	Dust control / mitigation measures shall be provided to prevent dust nuisance.	√			
▪	Water sprays shall be provided and used to dampen materials.	√			
▪	All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	√			
▪	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	√			
▪	Unpaved areas should be watered regularly to avoid dust generation.	√			
▪	The designated site main haul road shall be paved or regular watering.	√			
▪	The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	√			
▪	Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	√			
▪	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	√			
▪	The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	√			
▪	Vehicle and equipment should be switched off while not in use.	√			
▪	All plant and equipment should be well maintained e.g. without black smoke emission.	√			
▪	Open burning should be prohibited.	√			
<b>Noise Impact</b>					
▪	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	√			
▪	The constructions works should be scheduled to minimize noise nuisance.	√			
▪	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	√			
▪	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	√			
▪	Air compressors and hand held breakers should have noise labels.	√			
▪	Compressors and generators should operate with door closed.	√			
▪	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	√			
▪	Noisy equipment and mobile plant shall always be site away from NSRs.	√			

	Implementation Stages*		Remark
	Yes	No / N/A	
<b>Water Quality</b>			
▪ Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	✓		Item 1
▪ The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	✓		
▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	✓		
▪ The material shall be properly covered to prevent washed away especially before rainstorm.	✓		
▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	✓		
▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓		
▪ Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	✓		
▪ A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	✓		
▪ The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcore to reduce vehicle tracking of soil and to prevent silt run-off from entering public road drains.	✓		
▪ Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	✓		
▪ The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	✓		
▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	✓		
▪ The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	✓		
▪ All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	✓		
▪ Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	✓		
▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	✓		
▪ The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	✓		
▪ A waste collection vessel shall be deployed to remove floating debris.	✓		
<b>Landscape and Visual</b>			
▪ The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	✓		
▪ Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	✓		
▪ Stockpile of public fill shall be removed in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable.	✓		
▪ Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	✓		
▪ Lighting shall be set to minimise night-time glare.	✓		





	Implementation Stages*	Remark
<b>Waste Management</b>		
<b>Construction Waste Management</b>		
▪ Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	√	
▪ Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	√	
▪ Mud and debris should be removed from waterworks access roads and associated drainage systems.	√	
▪ Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	√	
▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	√	
▪ Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	√	
▪ In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	√	
▪ Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	√	
<b>Chemical Waste Management</b>		
▪ It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	√	
▪ After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	√	
▪ Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	√	
▪ Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	√	
▪ Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	√	
▪ The designated chemical waste storage area should only be used for storing chemical wastes.	√	
▪ The set-up of chemical waste storage area should		
▪ Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	√	
▪ Be enclosed on at least 3 sides and securely closed.	√	
▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	√	
▪ Have adequate ventilation.	√	
▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	√	
▪ Be arranged so that incompatible materials are adequately separated.	√	

	Implementation Stages*	Implementation Stages*		Remark
		Yes	No	
Warning panels should be displayed at the waste storage area.	√			
Waste storage area should be cleaned and maintained regularly.	√			
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	√			
All generators, fuel and oil storage should be within bundle areas.	√			
Oil leakage from machinery, vehicle and plant should be prevented.	√			
In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	√			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	√			
<b>Good Site Practices</b>				
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	√			
Training of site personnel in proper waste management and chemical handling procedures should be provided.	√			
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	√			
Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	√			
The Environmental Permit should be displaced conspicuously on site.	√			
Construction noise permits should be posted at site entrance or available for site inspection.	√			
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	√			
Chemical storage area provided with lock and located on sealed areas.	√			
All chemicals should be placed at the banded area with adequate bund capacity (>110% of largest tank).	√			
Any unused chemicals or those with remaining functional capacity should be recycled.	√			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	√			
To encourage collection of aluminium cans by individual collectors.	√			
Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	√			
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	√			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of "wind blown" light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	√			



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Follow up the action to item 1 on 07/01/16, mud and silt were still accumulated inside the main drainage channel. <i>mud silt</i>	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	160114_001	Yes	21/01/16

Remark

--

Name	Title	Signature	Date
Prepared by Frankie Tang	Assistant Supervisor		14 January 2016
Checked by Linda Law	Senior Environmental Officer		14 January 2016



Photo



Photo 160114\_001 (Main drainage channel)



CEDD Contract No.: CV2013/06

Handling of Surplus Public Fill (2014-2016) - Tuen Mun Area 38 Fill Bank

Inspection Date : 21/1/16  
 Time : 10:00  
 Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy  
 Wind : Calm / Light Breeze / Strong  
 Temperature : 15°C  
 Humidity : High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contractor	ET
Signature:			
Name:	CHAN KAM PO	Kim Loan	Shuk Yui Man
Title	A10W/P3	SUBS 108107	ET



	Implementation Stages*			Remark
	Yes	No	N/A	
<b>Environmental Checklist</b>				
<b>Fugitive Dust Emission</b>				
▪	√			Dust control / mitigation measures shall be provided to prevent dust nuisance.
▪	√			Water sprays shall be provided and used to dampen materials.
▪	√			All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.
▪	√			Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.
▪	√			Unpaved areas should be watered regularly to avoid dust generation.
▪	√			The designated site main haul road shall be paved or regular watering.
▪	√			The haul road inside the site and public road around the site entrance should be kept clean and free from dust.
▪	√			Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.
▪	√			Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.
▪	√			The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.
▪	√			Vehicle and equipment should be switched off while not in use.
▪	√			All plant and equipment should be well maintained e.g. without black smoke emission.
▪	√			Open burning should be prohibited.
<b>Noise Impact</b>				
▪	√			The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.
▪	√			The constructions works should be scheduled to minimize noise nuisance.
▪	√			Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.
▪	√			Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.
▪	√			Air compressors and hand held breakers should have noise labels.
▪	√			Compressors and generators should operate with door closed.
▪	√			Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.
▪	√			Noisy equipment and mobile plant shall always be site away from NSRs.



Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
<b>Water Quality</b>				
Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.		√		Item 1
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	√			
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	√			
The material shall be properly covered to prevent washed away especially before rainstorm.	√			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	√			
Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	√			
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	√			
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	√			
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcore to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	√			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	√			
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	√			
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	√			
The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	√			
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	√			
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	√			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	√			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	√			
A waste collection vessel shall be deployed to remove floating debris.	√			
<b>Landscape and Visual</b>				
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	√			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	√			
Stockpile of public fill shall be removed in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable.	√			
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	√			
Lighting shall be set to minimise night-time glare.	√			



Environmental Checklist		Implementation Stages*			Remark
		Yes	No	N/A	
<b>Waste Management</b>					
<b>Construction Waste Management</b>					
▪	Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	√			
▪	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	√			
▪	Mud and debris should be removed from waterworks access roads and associated drainage systems.	√			
▪	Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	√			
▪	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	√			
▪	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	√			
▪	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	√			
▪	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	√			
<b>Chemical Waste Management</b>					
▪	It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	√			
▪	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes.	√			
▪	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	√			
▪	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	√			
▪	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	√			
▪	The designated chemical waste storage area should only be used for storing chemical wastes.	√			
▪	The set-up of chemical waste storage area should				
▪	Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	√			
▪	Be enclosed on at least 3 sides and securely closed.	√			
▪	Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	√			
▪	Have adequate ventilation.	√			
▪	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary).	√			
▪	Be arranged so that incompatible materials are adequately separated.	√			



Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
<ul style="list-style-type: none"> <li>▪ Warning panels should be displayed at the waste storage area.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Waste storage area should be cleaned and maintained regularly.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ All generators, fuel and oil storage should be within bundle areas.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Oil leakage from machinery, vehicle and plant should be prevented.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.</li> </ul>	√			
<b>Good Site Practices</b>				
<ul style="list-style-type: none"> <li>▪ Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Training of site personnel in proper waste management and chemical handling procedures should be provided.</li> </ul>	√			
<ul style="list-style-type: none"> <li>• Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.</li> </ul>	√			
<ul style="list-style-type: none"> <li>• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> </ul>	√			
<ul style="list-style-type: none"> <li>• The Environmental Permit should be displaced conspicuously on site.</li> </ul>	√			
<ul style="list-style-type: none"> <li>• Construction noise permits should be posted at site entrance or available for site inspection.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Chemical storage area provided with lock and located on sealed areas.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ All chemicals should be placed at the banded area with adequate band capacity (&gt;110% of largest tank).</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Any unused chemicals or those with remaining functional capacity should be recycled.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ To encourage collection of aluminium cans by individual collectors.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.</li> </ul>	√			
<ul style="list-style-type: none"> <li>▪ A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of wind blown light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be banded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.</li> </ul>	√			

**Summary of the Weekly Site Inspection:**

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Follow up the action to item 1 on 07/01/16 and item 1 on 14/01/16, mud and silt were still accumulated inside the main drainage channel.	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	160121_001	Yes	28/01/16
2	Mud and silt were accumulated inside the U-channel near CEDD site office.	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	160121_002	Yes	28/01/16

Remark

--

Name	Title	Signature	Date
Linda Law	Senior Environmental Officer		21 January 2016



Photo

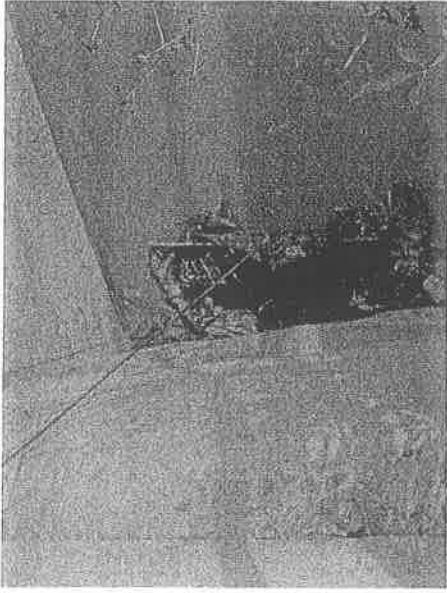


Photo 160121\_001 (Main drainage channel)

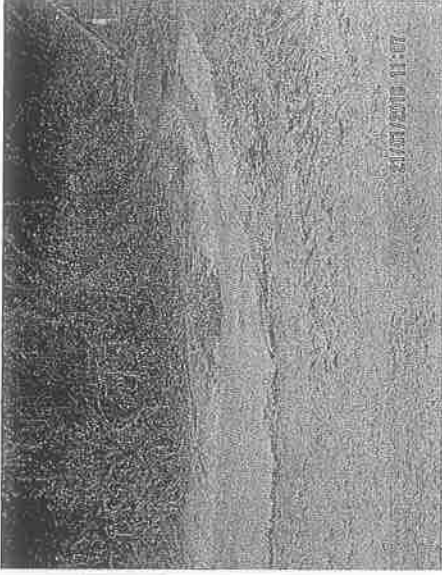
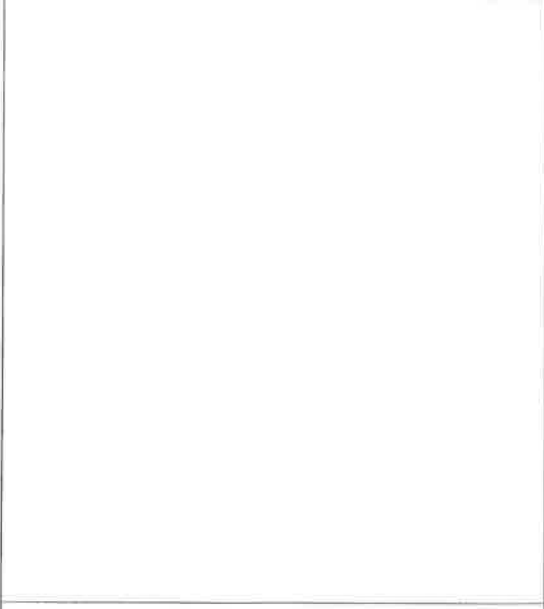


Photo 160121\_002 (U-channel near CEDD site office)





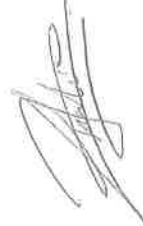
CEDD Contract No.: CV/2013/06

Handling of Surplus Public Fill(2014-2016) - Tuen Mun Area 38 Fill Bank



東業經測試顧問有限公司  
ETS-TESTCONSULT LIMITED

Inspection Date : 28.1.16  
Time : 14:00  
Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy  
Wind : Calm / Light / Breeze / Strong  
Temperature : 15°C  
Humidity : High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contractor	ET
Signature:			
Name:	Eric Wan	Eric Wan	Eric Wan
Title	low/p3	E0	E17

Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
<b>Fugitive Dust Emission</b>				
▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.	✓			
▪ Water sprays shall be provided and used to dampen materials.	✓			
▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	✓			
▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	✓			
▪ Unpaved areas should be watered regularly to avoid dust generation.	✓			
▪ The designated site main haul road shall be paved or regular watering.	✓			
▪ The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	✓			
▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	✓			
▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	✓			
▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	✓			
▪ Vehicle and equipment should be switched off while not in use.	✓			
▪ All plant and equipment should be well maintained e.g. without black smoke emission.	✓			
▪ Open burning should be prohibited.	✓			
▪ Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	✓			
<b>Noise Impact</b>				
▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	✓			
▪ The constructions works should be scheduled to minimize noise nuisance.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			
▪ Air compressors and hand held breakers should have noise labels.	✓			
▪ Compressors and generators should operate with door closed.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Noisy equipment and mobile plant shall always be site away from NSRs.	✓			

	Implementation Stages*			Remark
	Yes	No	N/A	
<b>Water Quality</b>				
Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.		√		Item 1 and 3
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	√			
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.		√		Item 4
The material shall be properly covered to prevent washed away especially before rainstorm.	√			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	√			
Final slope surfaces, especially those facing to the north of the site shall be treated by hydroseeding, vegetation planting or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	√			
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	√			
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	√			
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	√			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	√			
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	√			
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	√			
The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	√			
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	√			
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	√			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	√			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	√			
A waste collection vessel shall be deployed to remove floating debris.	√			
<b>Landscape and Visual</b>				
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	√			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	√			
Stockpile of public fill shall be removed in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable.	√			
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	√			
Lighting shall be set to minimise night-time glare.	√			

Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
<b>Waste Management</b>				
<b>Construction Waste Management</b>				
<ul style="list-style-type: none"> <li>▪ Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.</li> <li>▪ Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.</li> <li>▪ Mud and debris should be removed from waterworks access roads and associated drainage systems.</li> <li>▪ Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> <li>▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>▪ Prior to disposal of C&amp;D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.</li> <li>▪ In order to monitor the disposal of C&amp;D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.</li> <li>▪ Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.</li> </ul>	√			
<b>Chemical Waste Management</b>				
<ul style="list-style-type: none"> <li>▪ It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.</li> <li>▪ After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>▪ Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.</li> <li>▪ Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.</li> <li>▪ Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.</li> <li>▪ The designated chemical waste storage area should only be used for storing chemical wastes.</li> <li>▪ The set-up of chemical waste storage area should                             <ul style="list-style-type: none"> <li>▪ Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.</li> <li>▪ Be enclosed on at least 3 sides and securely closed.</li> <li>▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest</li> <li>▪ Have adequate ventilation.</li> <li>▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).</li> <li>▪ Be arranged so that incompatible materials are adequately separated.</li> </ul> </li> </ul>	√			

Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
Warning panels should be displayed at the waste storage area.	✓			
Waste storage area should be cleaned and maintained regularly.	✓			
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	✓			
All generators, fuel and oil storage should be within bundle areas.	✓			
Oil leakage from machinery, vehicle and plant should be prevented.	✓			
In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	✓			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	✓			
<b>Good Site Practices</b>				
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	✓			
Training of site personnel in proper waste management and chemical handling procedures should be provided.	✓			
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	✓			
Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	✓			
The Environmental Permit should be displaced conspicuously on site.	✓			
Construction noise permits should be posted at site entrance or available for site inspection.	✓			
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
Chemical storage area provided with lock and located on sealed areas.	✓			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	✓			
Any unused chemicals or those with remaining functional capacity should be recycled.	✓			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	✓			
To encourage collection of aluminium cans by individual collectors.	✓			
Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	✓			
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	✓			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be banded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	✓			



**Summary of the Weekly Site Inspection:**

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Follow up the action to item 1 on 07/01/16, item 1 on 14/01/16 and item 1 on 21/01/16. mud and silt were still accumulated inside the main drainage channel.	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	160128_001	Yes	04/02/16
2	Follow up the action to item 2 on 21/01/16, the contractor provided manpower to clean up the mud and silt accumulated inside the U-channel near CEDD site office.	--	160128_002	No	--
3	Mud and silt were noted accumulated inside the drainage channel near site exit	To clear the accumulated mud and silt and maintain the desilting facilities properly to avoid any blockage.	160128_003	Yes	04/02/16
4	Ponding water was found on the main road near wheel washing bay.	To clear the ponding water and maintain the road property to prevent accumulation of water.	160128_004	Yes	04/02/16

Remark

---

Name	Title	Signature	Date
Linda Law	Senior Environmental Officer	<i>Linda Law</i>	28 January 2016

Photo



Photo 160128\_001 (Main drainage channel)



Photo 160128\_002 (U-channel near CEDD site office)

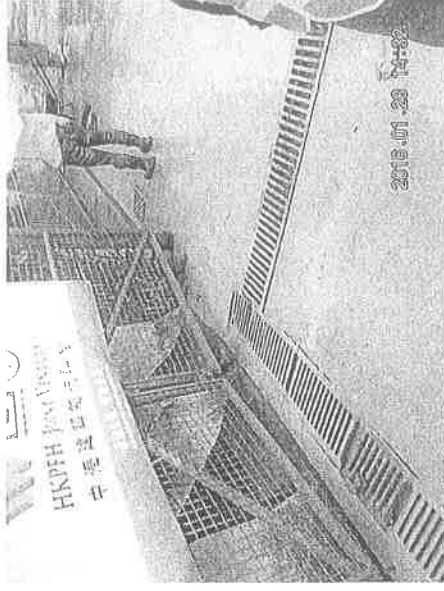


Photo 160128\_003 (Drainage channel near site exit.)



Photo 160128\_004 (Main road near wheel washing bay)



## **Appendix I**

### **Implementation Schedule of Mitigation Measures**



## Environmental Mitigation Implementation Schedule

	Location	Implementation Status		
		Implemented	Partially implemented	Not implemented
<b>Environmental Protection Measures</b>				
<b>Air Quality</b>				
<ul style="list-style-type: none"> <li>▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.</li> <li>▪ Water sprays shall be provided and used to dampen materials.</li> <li>▪ All stockpile of aggregate or soil should be enclosed or covered and water applied in dry or windy condition.</li> <li>▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.</li> <li>▪ Unpaved areas should be watered regularly to avoid dust generation.</li> <li>▪ The designated site main haul road shall be paved or regular watering.</li> <li>▪ The public road around the site entrance should be kept clean and free from dust.</li> <li>▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.</li> <li>▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.</li> <li>▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.</li> <li>▪ Vehicle and equipment should be switched off while not in use.</li> <li>▪ All plant and equipment should be well maintained e.g. without black smoke emission.</li> <li>▪ Open burning should be prohibited.</li> <li>▪ Approval or exemption Non-road Mobile Machinery (NRRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).</li> </ul>				
<b>Noise Impact</b>				
<ul style="list-style-type: none"> <li>▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.</li> <li>▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.</li> <li>▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.</li> <li>▪ Air compressors and hand held breakers should have noise labels.</li> <li>▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> <li>▪ Noisy equipment and mobile plant shall always be site away from NSRs.</li> </ul>				



Environmental Protection Measures	Location	Implementation Status		
		Implemented	Partially implemented	Not implemented
<b>Water Quality</b>				
<ul style="list-style-type: none"> <li>▪ The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.</li> <li>▪ Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.</li> <li>▪ The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.</li> <li>▪ The material shall be properly covered to prevent washed away especially before rainstorm.</li> <li>▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.</li> <li>▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.</li> <li>▪ Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> <li>▪ A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.</li> <li>▪ The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.</li> <li>▪ Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.</li> <li>▪ The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.</li> <li>▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.</li> <li>▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.</li> <li>▪ A waste collection vessel shall be deployed to remove floating debris.</li> </ul>	All areas	√		
	All areas	√		
	All areas	√		
	All areas	√		
	All areas	√		
	Temporary Slopes	√		
	All areas	√		
	Wheel Washing facility	√		
	Site Egress	√		
	Site Office	√		
	All areas	√		
	All areas	√		
	Along the seafront	√		
	Along the seafront	√		
<b>Landscape and Visual</b>				
<ul style="list-style-type: none"> <li>• The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.</li> <li>• Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.</li> <li>• Stockpile of public fill shall be removed in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable.</li> <li>• <i>Casuarina equisetifolia</i> were planted as buffer tree along the northern perimeter of the Site. The height of <i>Casuarina equisetifolia</i> was maintained at least 3m above soil level.</li> <li>• Lighting shall be set to minimise night-time glare.</li> </ul>	All areas	√		
	Completed slopes	√		
	Completed slopes	√		
	Site boundary	√		
	All areas	√		
<b>Waste Management</b>				
<b>Construction Waste Management</b>				
<ul style="list-style-type: none"> <li>• Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.</li> <li>• Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.</li> </ul>	All areas	√		
	All areas	√		



		Location	Implementation Status			
			Implemented	Partially implemented	Not implemented	Not Applicable
<b>Environmental Protection Measures</b>						
•	Mud and debris should be removed from waterworks access roads and associated drainage systems.	All areas	✓			
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas	✓			
•	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	All areas	✓			
•	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	All areas	✓			
•	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	All areas	✓			
<b>Chemical Waste Management</b>						
•	It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Waste Storage Area	✓			
•	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes.	Waste Storage Area	✓			
•	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	Waste Storage Area	✓			
•	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	Waste Storage Area	✓			
•	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	Waste Storage Area	✓			
•	The designated chemical waste storage area should only be used for storing chemical wastes.	Waste Storage Area	✓			
<b>The set-up of chemical waste storage area should</b>						
•	Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	Waste Storage Area	✓			
•	Be enclosed on at least 3 sides and securely closed.	Waste Storage Area	✓			
•	Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	Waste Storage Area	✓			
•	Have adequate ventilation.	Waste Storage Area	✓			
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area	✓			
•	Be arranged so that incompatible materials are adequately separated.	Waste Storage Area	✓			
•	Warning panels should be displayed at the waste storage area.	Waste Storage Area	✓			
•	Waste storage area should be cleaned and maintained regularly.	Waste Storage Area	✓			
•	Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	Waste Storage Area	✓			
		All areas	✓			

Environmental Protection Measures	Location	Implementation Status			
		Implemented	Partially implemented	Not implemented	Not Applicable
<ul style="list-style-type: none"> <li>All generators, fuel and oil storage should be within bundle areas.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Oil leakage from machinery, vehicle and plant should be prevented.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.</li> </ul>	All areas	√			
<b>Good Site Practices</b>					
<ul style="list-style-type: none"> <li>Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Training of site personnel in proper waste management and chemical handling procedures should be provided.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>The Environmental Permit should be displaced conspicuously on site.</li> </ul>	Site Entrance	√			
<ul style="list-style-type: none"> <li>Construction noise permits should be posted at site entrance or available for site inspection.</li> </ul>	Site Entrance	√			√
<ul style="list-style-type: none"> <li>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Chemical storage area provided with lock and located on sealed areas.</li> </ul>	Chemical Storage Area	√			
<ul style="list-style-type: none"> <li>All chemicals should be placed at the banded area with adequate band capacity (&gt;110% of largest tank).</li> </ul>	Chemical Storage Area	√			
<ul style="list-style-type: none"> <li>Any unused chemicals or those with remaining functional capacity should be recycled.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be banded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.</li> </ul>	All areas	√			
<ul style="list-style-type: none"> <li>Remove wastes in a timely manner.</li> </ul>	All areas	√			



## Appendix J

### Site General Layout plan



NOTES:

1. ALL COORDINATES REFER TO THE 1984 GEODETIC DATUM AND NOT THE 1984 PRINCIPAL DATUM WHICH IS USED IN METERS.
2. ALL DIMENSIONS ARE IN METERS.
3. ALL DIMENSIONS ARE IN METERS.

LEGEND:

- SITE BOUNDARY
- - - EXISTING WALLING
- - - EXISTING GATE
- BARGE MARKING AREA
- EXISTING SECURITY FENCE
- EXISTING SECURITY FENCE WITH 3.0 METRE BARRIERS
- PROPOSED CCTV WITH TOWER
- PROPOSED CCTV MONITOR ON THE EXISTING TOWER

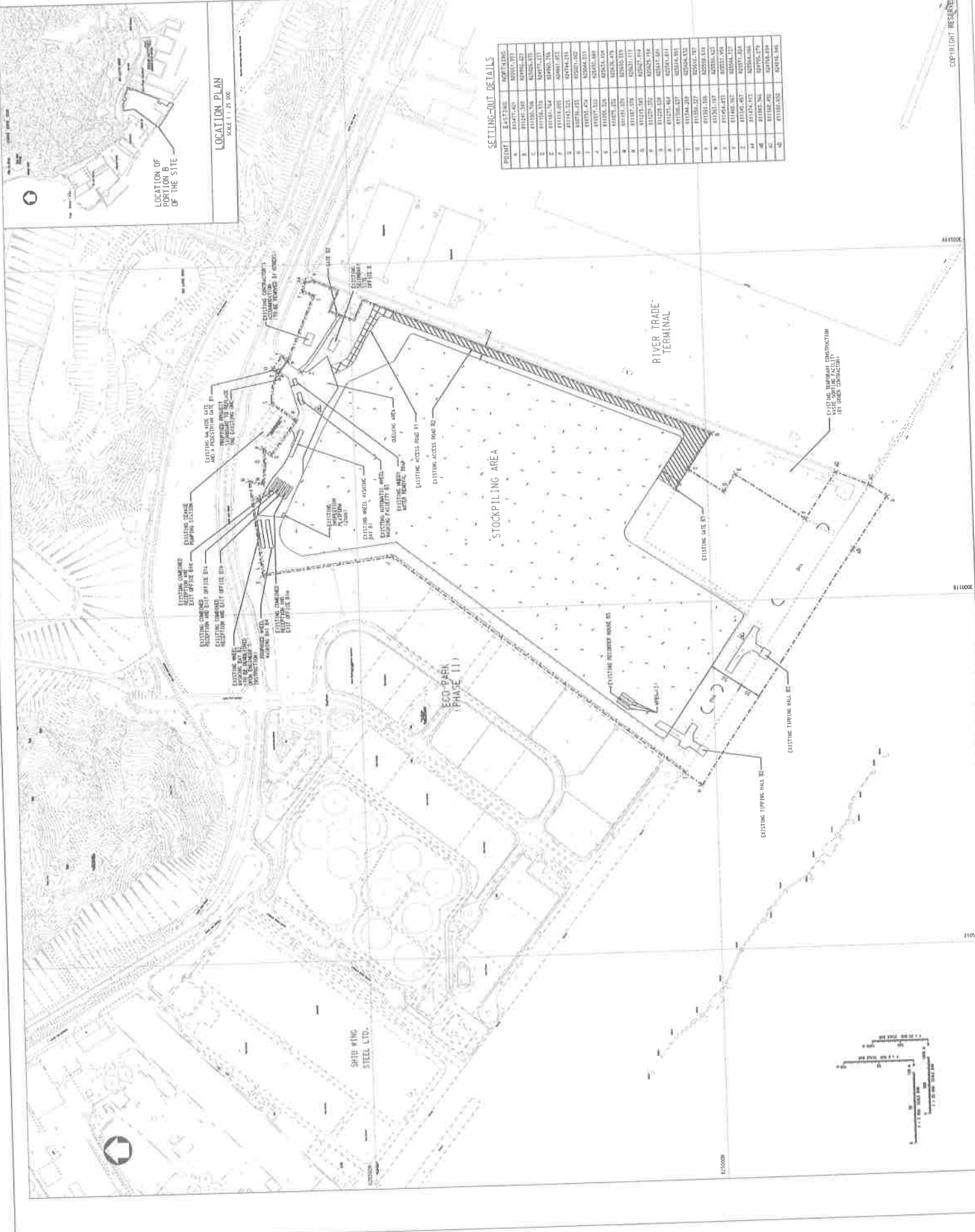
LOCATION PLAN

SCALE 1 : 25 000

LOCATION OF PORTION B OF THE SITE

SETTING-OUT DETAILS

POINT	EXISTING	NOTING
1	810277.401	810277.401
2	810241.348	810241.348
3	811005.786	811005.786
4	811010.715	811010.715
5	811114.085	811114.085
6	811143.526	811143.526
7	810776.453	810776.453
8	810776.454	810776.454
9	810776.453	810776.453
10	810776.453	810776.453
11	810776.453	810776.453
12	810776.453	810776.453
13	810776.453	810776.453
14	810776.453	810776.453
15	810776.453	810776.453
16	810776.453	810776.453
17	810776.453	810776.453
18	810776.453	810776.453
19	810776.453	810776.453
20	810776.453	810776.453
21	810776.453	810776.453
22	810776.453	810776.453
23	810776.453	810776.453
24	810776.453	810776.453
25	810776.453	810776.453
26	810776.453	810776.453
27	810776.453	810776.453
28	810776.453	810776.453
29	810776.453	810776.453
30	810776.453	810776.453
31	810776.453	810776.453
32	810776.453	810776.453
33	810776.453	810776.453
34	810776.453	810776.453
35	810776.453	810776.453
36	810776.453	810776.453
37	810776.453	810776.453
38	810776.453	810776.453
39	810776.453	810776.453
40	810776.453	810776.453
41	810776.453	810776.453
42	810776.453	810776.453



HANDLING OF SURPLUS PUBLIC FILL (2014-2016)

drawing no. **FM10068-16**

office **FILL MANAGEMENT DIVISION CIVIL ENGINEERING OFFICE**

client **CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT**

scale 1 : 200 (A3)

date 15/08/2016

COPYRIGHT RESERVED

1105006



## Appendix K

### QA/QC Results of Laboratory Analysis



## QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample Analysis	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
02/01/16	92.2	FC1-S	2.5	FM2-M	95.6
	93.5	FM2-B	8.4	EM1-S	109.5
	99.2	EM1-M	4.7	EC2-B	91.8
05/01/16	94.9	FC1-S	8.7	FM2-M	99.5
	102.5	FM2-B	4.1	EM1-S	106.1
	92.2	EM1-M	4.2	EC2-B	90.2
07/01/16	101.2	FC1-S	1.8	FM2-M	108.1
	106.5	FM2-B	6.4	EM1-S	98.8
	101.6	EM1-M	7.0	EC2-B	97.2
09/01/16	106.4	FC1-S	4.7	FM2-M	109.0
	99.6	FM2-B	7.7	EM1-S	102.3
	94.1	EM1-M	0.0	EC2-B	94.5
12/01/16	93.7	FC1-S	1.3	FM2-M	100.4
	98.4	FM2-B	7.8	EM1-S	92.9
	104.4	EM1-M	8.6	EC2-B	91.2
14/01/16	98.2	FC1-S	5.3	FM2-M	104.8
	94.8	FM2-B	7.8	EM1-S	100.9
	95.1	EM1-M	4.7	EC2-B	90.3
16/01/16	96.7	FC1-S	3.0	FM2-M	99.2
	93.4	FM2-B	3.7	EM1-S	99.4
	105.4	EM1-M	5.2	EC2-B	102.5
19/01/16	100.7	FC1-S	8.5	FM2-M	101.9
	94.3	FM2-B	2.6	EM1-S	102.8
	107.4	EM1-M	6.0	EC2-B	105.2
21/01/16	96.6	FC1-S	3.3	FM2-M	107.8
	107.2	FM2-B	4.4	EM1-S	94.8
	92.5	EM1-M	3.9	EC2-B	96.8
23/01/16	94.7	FC1-S	4.1	FM2-M	96.2
	98.6	FM2-B	4.4	EM1-S	103.5
	107.6	EM1-M	8.4	EC2-B	101.4
26/01/16	106.7	FC1-S	1.6	FM2-M	96.4
	101.2	FM2-B	0.0	EM1-S	97.4
	100.7	EM1-M	6.1	EC2-B	110.0
28/01/16	93.9	FC1-S	3.7	FM2-M	107.2
	104.0	FM2-B	1.1	EM1-S	98.4
	95.5	EM1-M	5.5	EC2-B	96.5
30/01/16	99.2	FC1-S	1.2	FM2-M	106.3
	107.2	FM2-B	4.9	EM1-S	94.0
	104.4	EM1-M	0.5	EC2-B	105.8

Note: (\*)% Recovery of QC sample should be between 80% to 120%.

(#)% Error of Sample Duplicate should be between -10% to 10%.

(@)% Recovery of Sample Spike should be between 80% to 120%.



## **Appendix L**

### **Complaint Log**

## Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Lung Mun Road near Tuen Mun Area 38 Fill Bank	18 May 2015 (15:24)	One complaint received on 18 May 2015 (15:24), which was forwarded to ET on 09 July 2015, from public against the sand and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Eco Park.	Refer to the ET site investigation on 09 July 2015, the condition on Lung Mun Road was found improved.  Details of Action(s) Taken by the Contactor 1. Regular water spraying by water lorries is provided for dust suppression on Lung Mun Road of the Fill Bank; 2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; 3. Mist spraying systems and automatic wheel washing facilities at the site entrance are operated properly; 4. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; 5. All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; 6. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets; 7. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.	Closed
002	Lung Mun Road near Tuen Mun Area 38 Fill Bank	20 May 2015 (14:29)	One complaint received on 20 May 2015 (14:29), which was forwarded to ET on 09 July 2015, from public against the sand and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Eco Park on 19 May 2015.		Closed
003	Lung Mun Road near Tuen Mun Area 38 Fill Bank	20 May 2015 (14:30)	One complaint received on 20 May 2015 (14:30), which was forwarded to ET on 09 July 2015, from public against the sand and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Eco Park.		Closed
004	Lung Mun Road near Tuen Mun Area 38 Fill Bank	21 May 2015 (11:28)	One complaint received on 21 May 2015 (11:28), which was forwarded to ET on 09 July 2015, from public against the sand and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Eco Park.		Closed
005	Lung Mun Road near Tuen Mun Area 38 Fill Bank	13 June 2015 (17:57)	One complaint received on 13 June 2015 (17:57), which was forwarded to ET on 09 July 2015, from public against the sand and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road near Tuen Mun Area 38.		Closed

## Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
006	Lung Mun Road near Tuen Mun Area 38 Fill Bank	02 July 2015 (15:29)	One complaint received on 02 July 2015 (15:29), which was forwarded to ET on 13 July 2015, from public against the rocks and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Fill Bank.	<p>Refer to the ET site investigation on 09 July 2015, the condition on Lung Mun Road was found improved.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ol style="list-style-type: none"> <li>Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li> <li>Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li> <li>Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets.</li> </ol>	Closed
007	Lung Mun Road from River Trade Terminal to Tuen Mun Area 38 Fill Bank	22 July 2015 (15:55)	One complaint received on 22 July 2015 (15:55), which was forwarded to ET on 31 July 2015, from public (Case # 2-1179958890) against the mud and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Fill Bank.	<p>Refer to the ET site investigation on 01 August 2015, the condition on Lung Mun Road was found improved.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ol style="list-style-type: none"> <li>Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li> <li>Mist spraying systems and automatic wheel washing facilities at the site entrance are operated properly;</li> <li>Regular water spraying by water lorries is provided for dust suppression on Lung Mun Road of the Fill Bank;</li> <li>Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li> <li>Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets.</li> </ol>	Closed
008	Lung Mun Road near site entrance of Tuen Mun Area 38 Fill Bank	23 July 2015 (14:51)	One complaint received on 23 July 2015 (14:51), which was forwarded to ET on 31 July 2015, from public (Case # 2-1182938384) against the rocks and debris dropped from the dump trucks and deposited on the road surface at the Lung Mun Road from River Trade Terminal to Fill Bank.	<p>Refer to the complaint, it was noted that the rubbish, rocks and debris were deposited on the road surface at the Lung Kwu Tan Road, where is outside the Public Cleaning Areas of Tuen Mun 38. Hence, the complaint was considered to be invalid.</p>	Closed
009	Lung Kwu Tan Road	06 December (12:25)	One complaint received on 06 December 2015 (12:25), which was forwarded to ET on 07 December 2015, from public (Case # 2-1627421506) against the rubbish, rocks and debris dropped from the dump trucks and deposited on the road surface at the Lung Kwu Tan Road. The complainant complained that waste and dust generated caused an environmental nuisance.	<p>Refer to the complaint, it was noted that the rubbish, rocks and debris were deposited on the road surface at the Lung Kwu Tan Road, where is outside the Public Cleaning Areas of Tuen Mun 38. Hence, the complaint was considered to be invalid.</p>	Closed

## Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
010	Lung Mun Road (to Lung Kwu Tank)	16 January 2016 (10:29:19)	One complaint received on 16 January 2016 (10:29:19), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1773873559) against the rocks and debris dropped from the dump trucks and deposited on the road surface on Lung Mun Road (to Lung Kwu Tank). The complainant complained that waste generated caused an environmental nuisance.	Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved.  Details of Action(s) Taken by the Contactor: 1. Regular water spraying by water lorries is provided for road cleaning on Lung Mun Road of the Fill Bank; 2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; 3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; 4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets; 5. Regular cleaning at the site haul road is provided.	Closed
011	Lung Mun Road from Tuen Mun Area 38 Fill Bank to Lung Kwu Tank	16 January 2016 (11:52:36)	One complaint received on 16 January 2016 (11:52:36), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774073373) against the soil and sand dropped from the dump trucks and deposited on the road surface at Lung Mun Road from Tuen Mun Area 38 Fill Bank (TM38) to Lung Kwu Tank. The complainant complained that waste generated caused an environmental nuisance.		Closed
012	Lamp post (FC1778A – FC1808A) at Lung Mun Road	16 January 2016 (12:42:56)	One complaint received on 16 January 2016 (12:42:56), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774259372) against the soil and sand dropped from the dump trucks and deposited near lamp post (FC1778A – FC1808A) at Lung Mun Road. The complainant complained that waste generated caused an environmental nuisance.		Closed
013	Lung Mun Road near Tuen Mun Area 38 Fill Bank	16 January 2016 (12:44:19)	One complaint received on 16 January 2016 (12:44:19), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774296204) against the rocks, soil and sand deposited at Lung Mun Road near Tuen Mun Area 38 Fill Bank (TM38). The complainant complained that waste generated caused an environmental nuisance.		Closed
014	From No.201 Lung Mun Road (River Trade Terminal) to EcoPark	16 January 2016 (17:36:42)	One complaint received on 16 January 2016 (17:36:42), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774986539) against the construction waste dumped from the trucks from No.201 Lung Mun Road (River Trade Terminal) to EcoPark. The complainant complained that waste generated caused an environmental nuisance.		Closed
015	Lung Mun Road (River Trade Terminal to EcoPark)	21 January 2016 (09:55:04)	One complaint received on 21 January 2016 (09:55:04), which was forwarded to ET on 25 January 2016, from public (1823 Case # 2-1792038360) against the rocks and mud dumped along Lung Mun Road (River Trade Terminal to EcoPark). The complainant complained that waste generated caused an environmental nuisance.		Closed

## Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
016	Lung Mun Road (River Trade Terminal to EcoPark)	23 January 2016 (12:22:45)	One complaint received on 23 January 2016 (12:22:45), which was forwarded to ET on 26 January 2016, from public (1823 Case # 2-1800289518) against the rocks and debris dumped along Lung Mun Road (River Trade Terminal to EcoPark). The complainant complained that waste generated caused an environmental nuisance.	<p>Refer to the ET site investigation on 26 January 2016, the condition on Lung Mun Road was found improved.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ol style="list-style-type: none"> <li>1. Regular water spraying by water lorries is provided for road cleaning on Lung Mun Road;</li> <li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li> <li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li> <li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li> <li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li> </ol>	Closed
017	Lung Kwu Tank Road to EcoPark	23 January 2016 (13:04:51)	One complaint received on 23 January 2016 (13:04:51), which was forwarded to ET on 26 January 2016, from public (1823 Case # 2-1800182690) against the sands dumped at Lung Kwu Tank Road to EcoPark. The complainant complained that waste generated caused an environmental nuisance.	<p>Refer to the complaint, it was noted that the sands were deposited on the road surface at the Lung Kwu Tan Road, where is outside the Public Cleaning Areas of Tuen Mun Area 38 Fill Bank. Hence, the complaint was considered to be invalid.</p>	Closed





Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
018	202 Lung Mun Road (near River Trade Terminal)	27 January 2016 (16:43:26)	<p>One complaint received on 27 January 2016 (16:43:26), which was forwarded to ET on 02 February 2016, from public (1823 Case # 2-1815145897) against the mud noted at 202 Lung Mun Road (near River Trade Terminal). The complainant complained that waste generated caused an environmental nuisance.</p>	<p>Refer to the ET site investigation on 04 February 2016, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ol style="list-style-type: none"> <li>1. Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road;</li> <li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li> <li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li> <li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li> <li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li> </ol>	Closed



## **Appendix M**

### **Complaint Investigation Reports**



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 16 January 2016</b>			<b>Log No. : 010</b>
<b>Date and Time of Complaint</b>		16 January 2016 (10:29:19)	
<b>Location</b>			
Lung Mun Road (to Lung Kwu Tank)			
<b>Circumstances:</b>			
One complaint received on 16 January 2016 (10:29:19), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1773873559) against the rocks and debris dropped from the dump trucks and deposited on the road surface on Lung Mun Road (to Lung Kwu Tank). The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>		ET	<b>Date</b>
			21 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 21 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"><li>1. Regular water spraying by water lorries is provided for road cleaning on Lung Mun Road of the Fill Bank;</li><li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li><li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li><li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li><li>5. Regular cleaning at the site haul road is provided.</li></ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	22 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	22 January 2016



## Photos during ET site investigation at TM38 on 21 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1773873559  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-16 10:29:19

---

I. DUE DATE:

Acknowledgement : 2016-01-21 14:23:25  
 Interim Reply : 2016-01-25 15:23:39  
 Final Reply : 2016-02-01 15:23:39

---

II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-16 10:29:34	Acknowledged	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-18 15:22:18	Cancelled	CEDD	Enquiry_CEDD
2016-01-18 15:22:33	In Progress	HYD	NT/CTO/TM
2016-01-18 15:53:24	Open	CEDD	SE/P5(FMD)

---

III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TC4R7G	2016-01-16 10:00:48	Voice Mail - Inbound

[No.]	[Id]	[Date/Time]	[Type]
2	2-TC49PH	2016-01-16 10:30:51	Call - Outbound

[Detail]

投訴人投訴龍鼓灘與屯門的來回路線中有碎石和沙泥在行車路面，碎石約拳頭大小，懷疑源頭來自屯門內河碼頭內的卸泥區帶出來的，每日如是，請部門到場跟進清洗並提供回覆。

[No.]	[Id]	[Date/Time]	[Type]
3	2-TD2DQM	2016-01-16 20:50:39	Web Update from Department

[Detail]

I acknowledge receipt of this case and follow up will be taken.

[No.]	[Id]	[Date/Time]	[Type]
4	2-TG1C11	2016-01-18 10:41:26	Call - Inbound

[Detail]

投訴人再次來電，表示事態嚴重。在屯門龍門路入龍鼓灘的沿途路段超過500呎長的行車路上有泥頭和石頭問題，位置大約在龍門路的公眾洗衣房對出路段，現時有車輛用水沾濕路面，導致泥頭形成為泥漿，嚴重影響車輛和行車路。另外，每次經過上址石頭也會彈到車底，每輛車輛的擋風玻璃也受石頭的影響而裂和破損，因此請相關部門高度正視上述問題，及親身到場了解情況，感受帶來對駕車人士的嚴重影響，請部門跟進並提供回覆。

[No.]	[Id]	[Date/Time]	[Type]
5	2-TG3DR2	2016-01-18 10:59:07	Email - Inbound from Department

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
6	2-TG1C1B	2016-01-18 11:01:02	SMS - Outbound

[Detail]

鄧女士:

投訴龍鼓灘與屯門的來回路線中有碎石和沙泥在行車路面 (檔案編號: 2-1773873559)

謝謝你於2016年01月18日給1823的來電。

我們已將你的補充資料轉交食物環境衛生署跟進，並會盡快將跟進結果回覆你。

補充資料內容是: 「投訴人再次來電，表示事態嚴重。在屯門龍門路入龍鼓灘的沿途路段超過500呎長的行車路上有泥頭和石頭問題，位置大約在龍門路的公眾洗衣房對出路段，現時有車輛用水沾濕路面，導致泥頭形成為泥漿，嚴重影響車輛和行車路。另外，每次經過上址石頭也會彈到車底，每輛車輛的擋風玻璃也受石頭的影響而裂和破損，因此請相關部

門高度正視上述問題，及親身到場了解情況，感受帶來對駕車人士的嚴重影響，請部門跟進並提供回覆。」

如有任何查詢，歡迎與我們的職員聯絡。

1823

客戶服務主任

林朗然謹覆

2016年01月18日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

[No.]	[Id]	[Date/Time]	[Type]
7	2-TGMNGV	2016-01-18 15:24:08	SMS - Outbound
[Detail]			
鄧女士:			

投訴龍鼓灘與屯門的來回路線中有碎石和沙泥在行車路面 (檔案編號: 2-1773873559)

就上述個案，食物環境衛生署表示有關事項同時涉及土木工程拓展署和路政署的跟進範圍。我們已將你的個案轉介上述部門跟進。

如有任何查詢，歡迎與我們的職員聯絡。

1823

客戶服務主任

謝志偉謹覆

2016年01月18日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

[No.]	[Id]	[Date/Time]	[Type]
8	2-TGOC2K	2016-01-18 15:26:30	Email - Inbound from Department
[Detail]			
Please view the details at VII, WRITTEN CONTACT INBOUND DETAILS			

[No.]	[Id]	[Date/Time]	[Type]
9	2-TGQBZN	2016-01-18 15:53:22	Web Update from Department
[Detail]			

Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO  
CC party : CE/PM

---

IV. CASE DETAILS:

Direct Reply By Department: N  
Subject Matter : 土木工程拓展署一般資訊  
Description :  
18/01 FEHD:Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

投訴人投訴龍鼓灘與屯門的來回路線中有碎石和沙泥在行車路面，碎石約拳頭大小，懷疑源頭來自屯門內河碼頭內的卸泥區帶出來的，每日如是，請部門到場跟進清洗並提供回覆。

Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進，你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商，讓他們可以直接回覆您？

Ans: 願意

Remark:

<ENDS of Specific Question>

---

V. EVENT DETAILS:

Event Date & Time : null

EVENT LOCATION:

Room :  
Floor :  
Block No. :  
Building Name :  
Estate :  
Street No. :  
Street Name : 龍門路  
District :  
Region : NT  
Slope No :  
Lamp Post No :  
Landmark :  
Lot No. :

---

VI. CONTACT INFORMATION:

Last Name : Ms. .鄧  
First Name : .  
Alt Name :  
Personal ID :  
Contact Address :  
Daytime No. :  
Nighttime No. :  
Mobile : [REDACTED]  
Alt Tel No. :  
Fax :  
Email Address :  
Preferred Reply Channel:  
Special Instructions:  
Case Source : General Public  
Best Call Time : 00:00:00 To 23:59:59

---

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.]	[Id]	[Date/Time]	[Type]
5	2-TG3DR2	2016-01-18 10:59:07	Email - Inbound from Department
[Detail] FEHD request HYD and CEDD for parallel action.			

Dear 1823 duty manager,

Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(CI)TM

FEHD

Tel: 2404 8364

[No.] [Id] [Date/Time] [Type]  
8 2-TGOC2K 2016-01-18 15:26:30 Email - Inbound from Department

[Detail]

This is to acknowledge receipt of your message. Where appropriate, we will give you a reply. Thank you. (This is generated by an auto-reply programme.)

本署已收到你的。如有需要，我作出回覆。(此喉自影出的息。)





<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 16 January 2016</b>			<b>Log No. : 011</b>
<b>Date and Time of Complaint</b>	16 January 2016 (11:52:36)		
<b>Location</b>			
Lung Mun Road from Tuen Mun Area 38 Fill Bank to Lung Kwu Tank			
<b>Circumstances:</b>			
One complaint received on 16 January 2016 (11:52:36), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774073373) against the soil and sand dropped from the dump trucks and deposited on the road surface at Lung Mun Road from Tuen Mun Area 38 Fill Bank (TM38) to Lung Kwu Tank. The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>	ET	<b>Date</b>	21 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 21 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"><li>1. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li><li>2. Automatic wheel washing facilities at the site entrance are operated properly;</li><li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li><li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li><li>5. Regular cleaning at the site haul road is provided.</li></ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	22 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	22 January 2016



## Photos during ET site investigation at TM38 on 21 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1774073373  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-16 11:52:36

I. DUE DATE:

Acknowledgement : 2016-01-21 13:45:14  
 Interim Reply : 2016-01-25 14:58:51  
 Final Reply : 2016-02-01 14:58:51

II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-16 11:52:47	Acknowledged	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-18 14:58:12	Cancelled	CEDD	Enquiry_CEDD
2016-01-18 14:58:17	In Progress	HYD	NT/CTO/TM
2016-01-18 15:15:12	Open	CEDD	SE/P5(FMD)

III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TC8JRF	2016-01-16 11:49:33	Call - Inbound
[Detail] 投訴人投訴屯門38區至龍鼓灘的行車路面有沙泥，投訴人表示長期有車輛行駛時跌落沙泥，要求部門加強清洗。			
2	2-TD2DPW	2016-01-16 20:47:27	Web Update from Department
[Detail] I acknowledge receipt of this case and follow up will be taken.			
3	2-TGJBT8	2016-01-18 14:42:31	Email - Inbound from Department
[Detail] Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS			
4	2-TGMSYU	2016-01-18 15:02:08	Email - Inbound from Department
[Detail] Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS			
5	2-TGN1ZR	2016-01-18 15:15:10	Web Update from Department
[Detail] Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO CC party : CE/FM			

IV. CASE DETAILS:

Direct Reply By Department: N  
 Subject Matter : 土木工程拓展署一般資訊  
 Description :  
 18/01 FEHD:Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

投訴人投訴屯門38區至龍鼓灘的行車路面有沙泥，投訴人表示長期有車輛行駛時跌落沙泥，要求部門加強清洗。

Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進，你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商，讓他們可以直接回覆您？

Ans: 不願意

Remark:

<ENDS of Specific Question>

V. EVENT DETAILS:

-----  
 Event Date & Time : 2016-01-16

EVENT LOCATION:

-----  
 Room :  
 Floor :  
 Block No. :  
 Building Name :  
 Estate :  
 Street No. :  
 Street Name : 龍門路  
 District :  
 Region : NT  
 Slope No :  
 Lamp Post No :  
 Landmark :  
 Lot No. :

=====

VI. CONTACT INFORMATION:

-----  
 The citizen refused to leave contact information. Departmental officer is requested to provide a substantive reply (with details) to 1823 for follow-up actions.

Last Name :  
 First Name :  
 Alt Name :  
 Personal ID :  
 Contact Address :  
 Daytime No. :  
 Nighttime No. :  
 Mobile :  
 Alt Tel No. :  
 Fax :  
 Email Address :  
 Preferred Reply Channel:  
 Special Instructions:  
 Case Source : General Public  
 Best Call Time : 00:00:00 To 23:59:59

=====

VII. WRITTEN CONTACT INBOUND DETAILS:

-----  

[No.]	[Id]	[Date/Time]	[Type]
3	2-TGJBT8	2016-01-18 14:42:31	Email - Inbound from Department

[Detail]  
 FEHD request CEDD and HYD for parallel action.

==

Dear 1823 duty manager,

Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(Cl)TM

FEHD

Tel: 2404 8364

-----  



[No.]	[Id]	[Date/Time]	[Type]
4	2-TGM5YU	2016-01-18 15:02:08	Email - Inbound from Department

[Detail]  
 This is to acknowledge receipt of your message. Where appropriate, we will give you a reply. Thank you. (This is generated by an auto-reply

programme.)

本署已收到你的。如有需要，我作出回覆。(此自影出的息。)



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 16 January 2016</b>			<b>Log No. : 012</b>
<b>Date and Time of Complaint</b>		16 January 2016 (12:42:56)	
<b>Location</b>			
Lamp post (FC1778A – FC1808A) at Lung Mun Road			
<b>Circumstances:</b>			
One complaint received on 16 January 2016 (12:42:56), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774259372) against the soil and sand dropped from the dump trucks and deposited near lamp post (FC1778A – FC1808A) at Lung Mun Road. The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>	ET	<b>Date</b>	21 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 21 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"> <li>1. Regular water spraying by water lorries is provided for road cleaning on Lung Mun Road;</li> <li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li> <li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li> <li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li> <li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li> </ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	22 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	22 January 2016



## Photos during ET site investigation at TM38 on 21 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1774259372  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-16 12:42:56

I. DUE DATE:

Acknowledgement : 2016-01-21 14:22:32  
 Interim Reply : 2016-01-25 15:17:14  
 Final Reply : 2016-02-01 15:17:14

II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-16 12:43:15	Acknowledged	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-18 15:16:35	Cancelled	CEDD	Enquiry_CEDD
2016-01-18 15:16:42	In Progress	HYD	NT/CTO/TM
2016-01-18 15:52:31	Open	CEDD	SE/P5(FMD)

III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TCCJ9T	2016-01-16 12:40:34	Call - Inbound
[Detail] 來電人接獲市民投訴，指龍門路近燈柱 FC1778A - FC1808A (來回線)，路面上佈滿污泥，要求人員儘快到場清洗			
2	2-TD2EAO	2016-01-16 20:57:19	Web Update from Department
[Detail] I acknowledge receipt of this case and follow up will be taken.			
3	2-TGJBFY	2016-01-18 14:42:14	Email - Inbound from Department
[Detail] Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS			
4	2-TGNUJ9	2016-01-18 15:20:08	Email - Inbound from Department
[Detail] Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS			
5	2-TGQBY9	2016-01-18 15:52:29	Web Update from Department
[Detail] Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO CC party : CE/FM			

IV. CASE DETAILS:

Direct Reply By Department: N  
 Subject Matter : 土木工程拓展署一般資訊  
 Description :  
 18/01 FEHD:Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

來電人接獲市民投訴，指龍門路近燈柱 FC1778A - FC1808A (來回線)，路面上佈滿污泥，要求人員儘快到場清洗

Full Address from GIS:

LUNG MUN ROAD, , , TM  
 Full Address from GIS:  
 LUNG MUN ROAD, , , TM

Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進，你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商，讓他們可以直接回覆您？

Ans: 願意



Remark:

<ENDS of Specific Question>

V. EVENT DETAILS:

Event Date & Time : null

EVENT LOCATION:

Room :  
 Floor :  
 Block No. :  
 Building Name :  
 Estate :  
 Street No. :  
 Street Name : 龍門路  
 District :  
 Region :  
 Slope No :  
 Lamp Post No : FC1778  
 Landmark :  
 Lot No. :

VI. CONTACT INFORMATION:

Last Name : Ms. 李  
 First Name : 青山警察電台  
 Alt Name :  
 Personal ID :  
 Contact Address :  
 Daytime No. : 36617228  
 Nighttime No. :  
 Mobile :  
 Alt Tel No. :  
 Fax :  
 Email Address :  
 Preferred Reply Channel: Call  
 Special Instructions:  
 Case Source : General Public  
 Best Call Time : 00:00:00 To 23:59:59

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.]	[Id]	[Date/Time]	[Type]
3	2-TGJBFY	2016-01-18 14:42:14	Email - Inbound from Department
[Detail] FEHD request HYD and CEDD for parallel action.			

Dear 1823 duty manager,

Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(CI)TM

FEHD

Tel: 2404 8364



[No.]	[Id]	[Date/Time]	[Type]
4	2-TGNUMJ9	2016-01-18 15:20:08	Email - Inbound from Department
[Detail]			

KG007SBSVR02\_6672\_4424\_0\_2-TGQBYU

This is to acknowledge receipt of your message. Where appropriate, we will give you a reply. Thank you. (This is generated by an auto-reply programme.)

本署已收到你的。如有需要，我作出回覆。(此係自引出的息。)



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 16 January 2016</b>			<b>Log No. : 013</b>
<b>Date and Time of Complaint</b>		16 January 2016 (12:44:19)	
<b>Location</b>			
Lung Mun Road near Tuen Mun Area 38 Fill Bank			
<b>Circumstances:</b>			
One complaint received on 16 January 2016 (12:44:19), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774296204) against the rocks, soil and sand deposited at Lung Mun Road near Tuen Mun Area 38 Fill Bank (TM38). The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>		ET	<b>Date</b>
			21 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 21 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"><li>1. Regular water spraying by water lorries is provided for road cleaning on Lung Mun Road;</li><li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li><li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li><li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li><li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li></ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce dust and waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	22 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	22 January 2016



## Photos during ET site investigation at TM38 on 21 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1774296204  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-16 12:44:19

## I. DUE DATE:

Acknowledgement : 2016-01-21 14:21:49  
 Interim Reply : 2016-01-25 15:13:55  
 Final Reply : 2016-02-01 15:13:55

## II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-16 12:44:33	Acknowledged	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-18 15:12:46	Cancelled	CEDD	Enquiry_CEDD
2016-01-18 15:12:52	In Progress	HYD	NT/CTO/TM
2016-01-18 15:51:48	Open	CEDD	SE/P5(FMD)

## III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TCDBPG	2016-01-16 12:42:39	Call - Inbound

[Detail]

投訴人投訴屯門第38區填料庫對出的龍門路路面有沙石及泥，使路面十分滑，會對道路使用者危險，投訴人表示是由填料庫出來的車輛所帶來的，要求部門跟進。

[No.]	[Id]	[Date/Time]	[Type]
2	2-TCDBSY	2016-01-16 12:51:41	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85224048364)

Department did not respond.

[No.]	[Id]	[Date/Time]	[Type]
3	2-TCDBTQ	2016-01-16 12:53:04	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85293899225)

Department did not respond.

[No.]	[Id]	[Date/Time]	[Type]
4	2-TD2DZL	2016-01-16 20:51:50	Web Update from Department

[Detail]

I acknowledge receipt of this case and follow up will be taken.

[No.]	[Id]	[Date/Time]	[Type]
5	2-TGJBG2	2016-01-18 14:42:20	Email - Inbound from Department

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
6	2-TGMN2N	2016-01-18 15:14:41	SMS - Outbound

[Detail]

劉先生:

投訴屯門第38區填料庫對出龍門路路面有沙石及泥 (檔案編號: 2-1774296204)

就上述個案，食物環境衛生署表示有關事項同時涉及土木工程拓展署和路政署的跟進範圍。我們已將你的個案轉介上述部門跟進。

如有任何查詢，歡迎與我們的職員聯絡。

1823

客戶服務主任

謝志偉謹覆

2016年01月18日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

[No.]	[Id]	[Date/Time]	[Type]
7	2-TGNEOT	2016-01-18 15:17:07	Email - Inbound from Department

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
8	2-TGQBUT	2016-01-18 15:51:46	Web Update from Department

[Detail]

Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO  
CC party : CE/FM

---

---

#### IV. CASE DETAILS:

Direct Reply By Department: N

Subject Matter : 土木工程拓展署一般資訊

Description :

18/01 FEHD:Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

=

投訴人投訴屯門第38區填料庫對出的龍門路路面有沙石及泥，使路面十分滑，會對道路使用者危險，投訴人表示是由填料庫出來的車輛所帶來的，要求部門跟進。

#### Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進，你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商，讓他們可以直接回覆您？

Ans: 願意

Remark:

<ENDS of Specific Question>

---

---

#### V. EVENT DETAILS:

Event Date & Time : null

#### EVENT LOCATION:

Room :

Floor :

Block No. :

Building Name :

Estate :

Street No. :

Street Name : 龍門路

District :

Region : NT

Slope No :

Lamp Post No :

Landmark :

Lot No. :

---

---

#### VI. CONTACT INFORMATION:

Last Name : Mr. 劉

First Name : .  
Alt Name :  
Personal ID :  
Contact Address :  
Daytime No. :  
Nighttime No. :  
Mobile :   
Alt Tel No. :  
Fax :  
Email Address :  
Preferred Reply Channel: Call  
Special Instructions:  
Case Source : General Public  
Best Call Time : 00:00:00 To 23:59:59

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.] [Id] [Date/Time] [Type]  
5 2-TGJBG2 2016-01-18 14:42:20 Email - Inbound from Department  
[Detail]  
FEHD request HYD and CEDD for parallel action.

Dear 1823 duty manager,

Re. the captioned 4 complaints, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(C1)TM

FEHD



Tel: 2404 8364

[No.] [Id] [Date/Time] [Type]  
7 2-TGNEBT 2016-01-18 15:17:07 Email - Inbound from Department  
[Detail]

This is to acknowledge receipt of your message. Where appropriate, we will give you a reply. Thank you. (This is generated by an auto-reply programme.)

本署已收到你的。如有需要，我作出回覆。(此自影出的息。)



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 16 January 2016</b>			<b>Log No. : 014</b>
<b>Date and Time of Complaint</b>	16 January 2016 (17:36:42)		
<b>Location</b>			
From No.201 Lung Mun Road (River Trade Terminal) to EcoPark			
<b>Circumstances:</b>			
One complaint received on 16 January 2016 (17:36:42), which was forwarded to ET on 20 January 2016, from public (1823 Case # 2-1774986539) against the construction waste dumped from the trucks from No.201 Lung Mun Road (River Trade Terminal) to EcoPark. The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>	ET	<b>Date</b>	21 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 21 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"><li>1. Regular water spraying by water lorries is provided for road cleaning on Lung Mun Road;</li><li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li><li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li><li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li><li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li></ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	22 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	22 January 2016





## Photos during ET site investigation at TM38 on 21 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1774986539  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-16 17:36:42

## I. DUE DATE:

Acknowledgement : 2016-01-22 16:30:00  
 Interim Reply : 2016-01-26 20:12:02  
 Final Reply : 2016-02-02 20:12:02

## II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-16 17:38:56	Cancelled	BPD	EPD CW
2016-01-16 17:56:37	Misassigned	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-18 14:58:12	Misassigned	HYD	NT/CTO/TM
2016-01-19 20:09:10	Open	CEDD	SE/P5(FMD)

## III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TCS4DF	2016-01-16 17:35:00	Call - Inbound
[Detail] 投訴人投訴於屯門龍門路201號香港內河碼頭附近的環保園有泥頭車傾倒建築廢物,影響環境,要求部門跟進。			
2	2-TEUTAT	2016-01-17 20:42:24	Web Update from Department
[Detail] I acknowledge receipt of this case and follow up will be taken.			
3	2-TG595J	2016-01-18 11:21:28	Email - Inbound from Department
[Detail] Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS			
4	2-TG6MS8	2016-01-18 11:38:22	Web Update from Department
[Detail] Reassignment Option : 1823 please re-assign to department 路政署 Reassignment Reason: 建築物廢料不是本署負責範圍			
5	2-TGJS66	2016-01-18 15:00:03	SMS - Outbound
[Detail] 劉太太:			

投訴於屯門龍門路201號香港內河碼頭附近的環保園有泥頭車傾倒建築廢物 (檔案編號: 2-1774986539)

就上述個案, 根據食物環境衛生署所提供的資料, 有關事項屬路政署處理。我們已將你的個案轉介該部門跟進。

如有任何查詢, 歡迎與我們的職員聯絡。

1823

客戶服務主任

甘皓程謹覆

2016年01月18日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

[No.] [Id] [Date/Time] [Type]  
6 2-TIZU6Y 2016-01-19 15:00:07 Web Update from Department

[Detail]

Reassignment Option : 1823 please re-assign to department SE/P5(FMD) of CEDD

Reassignment Reason:根據劉太的描述，碎石和沙泥的源頭來自屯門內河碼頭內的卸泥區。

---

---

#### IV. CASE DETAILS:

Direct Reply By Department: N

Subject Matter : 陸上工程

Description :

19/1 HyD: Reassignment Option : 1823 please re-assign to department SE/P5(FMD) of CEDD

Reassignment Reason:根據劉太的描述，碎石和沙泥的源頭來自屯門內河碼頭內的卸泥區。

18/1 FEHD: Reassignment Option : 1823 please re-assign to department 路政署

Reassignment Reason:建築物廢料不是本署負責範圍

投訴人投訴於屯門龍門路201號香港內河碼頭附近的環保園有泥頭車傾倒建築廢物,影響環境,要求部門跟進。

Specific Questions and Answers :

1) 請問是有關哪一方面?

Ans: 公眾填土躉船轉運站(柴灣, 梅窩, 將軍澳, 屯門)

Remark:

2) 請問該項目有什 問題?

Ans: 路面不平 / 路面有沙粒 / 路面有積水 / 道路設施損壞

Remark:

4) 請問可否提供該項目的工程編號?

Ans: 不知道

Remark:

5) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進, 你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商, 讓他們可以直接回覆您?

Ans: 願意

Remark:

<ENDS of Specific Question>

---

---

#### V. EVENT DETAILS:

Event Date & Time : null

EVENT LOCATION:

Room :

Floor :

Block No. :

Building Name :

Estate :

Street No. :

Street Name : 龍門路

District :

Region : NT

Slope No. :

Lamp Post No. :

Landmark : 環保園

Lot No. :

VI. CONTACT INFORMATION:

Last Name : Mrs. 劉  
First Name : .  
Alt Name :  
Personal ID :  
Contact Address :  
Daytime No. :  
Nighttime No. :  
Mobile : ██████████  
Alt Tel No. :  
Fax :  
Email Address :  
Preferred Reply Channel: Call  
Special Instructions:  
Case Source : General Public  
Best Call Time : 00:00:00 To 23:59:59

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.]	[Id]	[Date/Time]	[Type]
3	2-TG595J	2016-01-18 11:21:28	Email - Inbound from Department

[Detail]  
Dear 1823 Call Centre Duty Manager,

This is a request for 1823's clarification, please do not use it to reply the complainant.

Referring to your message below, your clarification is requested on the following:

Neither information is provided on the source of the flytipped waste (i.e. unidentified source) nor the flytipping activity is continual (近一星期 does not mean continual, in fact, the actual frequency is outstanding ) but the complaint is assigned to EPD for action. Without your clarification/further information, no further action could be taken by this department and we will assume that the case is sent to us for reference only. Please provide us the required information as soon as possible if you consider otherwise.

Since the protocol of handling C&D wastes was agreed amongst all concerned departments, 1823 has to follow the agreement that complaint cases with unidentified source should be assigned to appropriate department for clearance direct.

Regards,

M. C. HO

Duty Supervisor

Customer Services Centre

Environmental Protection Department

(Tel: 2838 3111)

<1823\_general@1823.gov.hk>

KG007SBSVR01\_5148\_6280\_0\_2-TJK1R4

16/01/2016 17:56 To <hq-hotline@epd.gov.hk> cc Subject CASE#2-1774986539 New Complaint - 投訴屯門  
回路2013香港群島附近的叫保@有泥@@倒建@物

To: - E...



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 21 January 2016</b>			<b>Log No. : 015</b>
<b>Date and Time of Complaint</b>		21 January 2016 (09:55:04)	
<b>Location</b>			
Lung Mun Road (River Trade Terminal to EcoPark)			
<b>Circumstances:</b>			
One complaint received on 21 January 2016 (09:55:04), which was forwarded to ET on 25 January 2016, from public (1823 Case # 2-1792038360) against the rocks and mud dumped along Lung Mun Road (River Trade Terminal to EcoPark). The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>		ET	<b>Date</b>
			21 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 21 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 21 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"><li>1. Regular water spraying by water lorries is provided for road cleaning along Lung Mun Road;</li><li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li><li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li><li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li><li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li></ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	25 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	25 January 2016



## Photos during ET site investigation at TM38 on 21 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1792038360  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-21 09:55:04

## I. DUE DATE:

Acknowledgement : 2016-01-27 13:27:18  
 Interim Reply : 2016-01-29 14:37:24  
 Final Reply : 2016-02-05 14:37:24

## II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-21 09:56:11	Acknowledged	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-22 14:36:22	Misassigned	HYD	NT/CTO/TM
2016-01-22 14:36:58	Cancelled	CEDD	Enquiry_CEDD
2016-01-22 14:57:17	Acknowledged	CEDD	SB/P5(FMD)

## III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TMXLN4	2016-01-21 09:53:01	Call - Inbound

[Detail]

投訴人投訴新界屯門區，龍門路(內河碼頭至環保園)的馬路上有大量泥頭和濕污泥，因為經常有泥頭車在此路經過。

投訴人更表示路過的普通車輛都會染得污泥。現在要有求關部門跟進和清洗街道。

[No.]	[Id]	[Date/Time]	[Type]
2	2-TOG7IC	2016-01-21 22:35:04	Web Update from Department

[Detail]

I acknowledge receipt of this case and follow up will be taken.

[No.]	[Id]	[Date/Time]	[Type]
3	2-TPH10M	2016-01-22 10:18:58	Email - Inbound from Department

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
4	2-TPQ3ES	2016-01-22 14:26:55	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85224048364)

致電FEHD文小姐，查詢轉介HYD & CEDD的進一步資料，文小姐表示有關龍門路部份路段行70/km，所以HYD都會負責清理有關路段，另外CEDD於負責位置有一個堆泥區，有關濕泥都是由堆泥區帶出，而且最近亦收到類似個案，都是有轉介上述部門，有關部門都會負責跟進。

[No.]	[Id]	[Date/Time]	[Type]
5	2-TQ16FZ	2016-01-22 14:38:27	SMS - Outbound

[Detail]

劉先生:

投訴屯門龍門路的馬路上有大量泥頭和濕污泥 (檔案編號: 2-1792038360)

就上述個案，食物環境衛生署表示有關事項同時涉及土木工程拓展署及路政署的跟進範圍。我們已將你的個案轉介上述部門跟進。

如有任何查詢，歡迎與我們的職員聯絡。

1823

助理客戶服務主管



黎穎義謹覆

2016年01月22日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

[No.] [Id] [Date/Time] [Type]  
6 2-TQ19LW 2016-01-22 14:39:17 Email - Inbound from Department

[Detail]  
Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.] [Id] [Date/Time] [Type]  
7 2-TQ2P5R 2016-01-22 14:57:12 Web Update from Department

[Detail]  
Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO  
CC party : CE/FM

[No.] [Id] [Date/Time] [Type]  
8 2-TQ2ZG3 2016-01-22 15:00:24 Email - Inbound from Department

[Detail]  
Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.] [Id] [Date/Time] [Type]  
9 2-TQC6U9 2016-01-22 17:16:40 Web Update from Department

[Detail]  
HYD misassign to CEDD. Assigned to CEDD already.

==

Reassignment Option : 1823 please re-assign to department SE/P5(FMD) of CEDD: CEO

Reassignment Reason:The muddy stuff was come from area 38, brought out by the trucks. Please see an attachment for reference.

---

#### IV. CASE DETAILS:

Direct Reply By Department: N

Subject Matter : 土木工程拓展署一般資訊

Description :

22/01 HYD :The muddy stuff was come from area 38, brought out by the trucks. Please see an attachment for reference.1823 please re-assign to department SE/P5(FMD) of CEDD: CEO

==

22/1.fehd:Re. the captioned complaint, please also refer to CEDD & HyD for parallel action.

==

投訴人投訴新界屯門區，龍門路(內河碼頭至環保園)的馬路上有大量泥頭和濕污泥，因為經常有泥頭車在此路經過。

投訴人更表示路過的普通車輛都會染得污泥。現在要有求關部門跟進和清洗街道。

Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進，你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商，讓他們可以直接回覆您？

Ans: 願意

Remark:

<ENDS of Specific Question>

---

#### V. EVENT DETAILS:

Event Date & Time : 2016-01-21

EVENT LOCATION:

Room :  
Floor :  
Block No. :  
Building Name :  
Estate :  
Street No. :  
Street Name : 龍門路  
District :  
Region : NT  
Slope No :  
Lamp Post No :  
Landmark :  
Lot No. :

VI. CONTACT INFORMATION:

Last Name : Mr. 劉  
First Name : .  
Alt Name :  
Personal ID :  
Contact Address :  
Daytime No. :  
Nighttime No. :  
Mobile : [REDACTED]  
Alt Tel No. :  
Fax :  
Email Address :  
Preferred Reply Channel: Call  
Special Instructions:  
Case Source : General Public  
Best Call Time : 00:00:00 To 23:59:59

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.]	[Id]	[Date/Time]	[Type]
3	2-TPH10M	2016-01-22 10:18:58	Email - Inbound from Department
[Detail] fehd(Parallel Action)			

Dear 1823 duty manager,

Re. the captioned complaint, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(CI)TM

FEHD

Tel: 2404 8364

[No.]	[Id]	[Date/Time]	[Type]
6	2-TQ19LW	2016-01-22 14:39:17	Email - Inbound from Department
[Detail]			

This is to acknowledge receipt of your message. Where appropriate, we will give you a reply. Thank you. (This is generated by an auto-reply programme.)

本署已收到你的。如有需要，我作出回覆。(此喉自影出的)

KG007SBSVR01\_10516\_7864\_2\_2-TRUUQ4

息。)



[No.]	[Id]	[Date/Time]	[Type]
8	2-TQ2ZG3	2016-01-22 15:00:24	Email - Inbound from Department

[Detail]

This is to acknowledge receipt of your message. Where appropriate, we will give you a reply. Thank you. (This is generated by an auto-reply programme.)

本署已收到你的。如有需要，我作出回覆。(此由自影出的  
息。)



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 23 January 2016</b>			<b>Log No. : 016</b>
<b>Date and Time of Complaint</b>	23 January 2016 (12:22:45)		
<b>Location</b>			
Lung Mun Road (River Trade Terminal to EcoPark)			
<b>Circumstances:</b>			
One complaint received on 23 January 2016 (12:22:45), which was forwarded to ET on 26 January 2016, from public (1823 Case # 2-1800289518) against the rocks and debris dumped along Lung Mun Road (River Trade Terminal to EcoPark). The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>	ET	<b>Date</b>	26 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 26 January 2016, the condition on Lung Mun Road was found improved. (Photos on ET follow-up investigation at TM38 on 26 January 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the rocks and debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"><li>1. Regular water spraying by water lorries is provided for road cleaning along Lung Mun Road;</li><li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li><li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li><li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li><li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li></ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	27 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	27 January 2016



## Photos during ET site investigation at TM38 on 26 January 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1800289518  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-23 12:22:45

I. DUE DATE:

Acknowledgement : 2016-01-29 09:24:16  
 Interim Reply : 2016-02-02 10:54:16  
 Final Reply : 2016-02-09 10:54:16

II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-23 12:23:00	Misassigned	HYD	NT/CTO/TM
2016-01-26 10:32:39	Open	CEDD	SE/P5(FMD)

III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TRUG9Z	2016-01-23 12:22:03	Call - Inbound

[Detail]

來電人投訴屯門龍門路往屯門方向，近內河碼頭堆泥區出口對出行車路面，有大量碎石及石頭，並且有大量泥沙令道路路面變成一片泥路，影響駕車人士，擔心會導致交通意外，要求部門盡快清理。

[No.]	[Id]	[Date/Time]	[Type]
2	2-TRUGDC	2016-01-23 12:29:10	Call - Outbound

[Detail]

Reply To Caller

提供個案編號至來電人。

[No.]	[Id]	[Date/Time]	[Type]
3	2-TS4YDN	2016-01-23 17:31:58	Email - Inbound

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
4	2-TS4YGD	2016-01-23 17:41:34	Email - Outbound

[No.]	[Id]	[Date/Time]	[Type]
5	2-TWATRR	2016-01-25 17:40:02	Email - Inbound

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
6	2-TWCJEE	2016-01-25 18:06:16	Email - Inbound

[Detail]

Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
7	2-TWKXLB	2016-01-25 21:46:45	Web Update from Department

[Detail]

HYD(misassignment case)

Reassignment Option : 1823 please re-assign to department SE/P5(FMD) of CEDD; CEO

Reassignment Reason:According to our observation, the main sources of dust and gravel are being brought out by vehicles from CEDD's "Public Filling Area" site to the public roads. Please see an attachment for reference.

IV. CASE DETAILS:

Direct Reply By Department: N  
 Subject Matter : 土木工程拓展署一般資訊  
 Description :

25/1.HYD:1823 please re-assign to department SE/P5(FMD) of CEDD: CEO

Reassignment Reason:According to our observation, the main sources of dust and gravel are being brought out by vehicles from CEDD's "Public Filling Area" site to the public roads. Please see an attachment for reference.

=

來電人投訴屯門龍門路往屯門方向，近內河碼頭堆泥區出口對出行車路面，有大量碎石及石頭，並且有大量泥沙令道路路面變成一片泥路，影響駕車人士，擔心會導致交通意外，要求部門盡快清理。

Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進，你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商，讓他們可以直接回覆您？

Ans: 願意

Remark:

<ENDS of Specific Question>

V. EVENT DETAILS:

Event Date & Time : null

EVENT LOCATION:

Room :  
 Floor :  
 Block No. :  
 Building Name :  
 Estate :  
 Street No. :  
 Street Name : 龍門路  
 District :  
 Region : NT  
 Slope No :  
 Lamp Post No :  
 Landmark :  
 Lot No. :

VI. CONTACT INFORMATION:

The citizen refused to provide contact information to department. Departmental officer is requested to provide a substantive reply (with details) to 1823 for follow-up actions.

Last Name :  
 First Name :  
 Alt Name :  
 Personal ID :  
 Contact Address :  
 Daytime No. :  
 Nighttime No. :  
 Mobile :  
 Alt Tel No. :  
 Fax :  
 Email Address :  
 Preferred Reply Channel:  
 Special Instructions:  
 Case Source : General Public  
 Best Call Time : 00:00:00 To 23:59:59

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.]	[Id]	[Date/Time]	[Type]
3	2-TS4YDN	2016-01-23 17:31:58	Email - Inbound
5	2-TWATRR	2016-01-25 17:40:02	Email - Inbound
6	2-TWCJEE	2016-01-25 18:06:16	Email - Inbound



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 23 January 2016</b>			<b>Log No. : 017</b>
<b>Date and Time of Complaint</b>	23 January 2016 (13:04:51)		
<b>Location</b>			
Lung Kwu Tank Road to EcoPark			
<b>Circumstances:</b>			
One complaint received on 23 January 2016 (13:04:51), which was forwarded to ET on 26 January 2016, from public (1823 Case # 2-1800182690) against the sands dumped at Lung Kwu Tank Road to EcoPark. The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>	ET	<b>Date</b>	26 January 2016
<b>Details of Follow up action(s)</b>			
Refer to the complaint, it was noted that the sands were deposited on the road surface at the Lung Kwu Tan Road, where is outside the Public Cleaning Areas of Tuen Mun Area 38 Fill Bank. Hence, the complaint was considered to be invalid.			
<b>Details of Action(s) Taken by the Contactor</b>			
---			
<b>Conclusion</b>			
Since the complaint was considered to be invalid, no further action to be taken. However, the Contractor was still reminded to implement appropriate measures, e.g. regular road cleaning, to reduce waste impact to the environment. Besides, the Contractor provided notice at the site entrance to remind the drivers of dump trucks to cover the loading compartment properly so as to prevent the loading materials from dropping into the nearby environment.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	27 January 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	27 January 2016



1823 CASE: 2-1800182690  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Phone  
 Case Creation Date : 2016-01-23 13:04:51

## I. DUE DATE:

Acknowledgement : 2016-01-28 17:09:18  
 Interim Reply : 2016-02-02 09:26:05  
 Final Reply : 2016-02-09 09:26:05

## II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-23 13:05:14	Acknowledged	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-26 09:21:15	In Progress	HYD	NT/CTO/TM
2016-01-26 09:21:26	Cancelled	CBDD	Enquiry_CBDD
2016-01-26 09:39:17	Open	CBDD	SE/P5(FMD)

## III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-TRS5U1	2016-01-23 13:01:04	Call - Inbound

[Detail]

投訴人投訴龍鼓灘路，未入到龍鼓灘位置，往環保園方向行車路兩邊都有黃泥沙，要求部門盡快清理。

[No.]	[Id]	[Date/Time]	[Type]
2	2-TS3KNQ	2016-01-23 14:52:49	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85293899225  
 0000 0000)

Department did not respond.

[No.]	[Id]	[Date/Time]	[Type]
3	2-TS3KOJ	2016-01-23 14:53:37	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85262526003  
 0000 0000)

Department did not respond.

[No.]	[Id]	[Date/Time]	[Type]
4	2-TS3KP2	2016-01-23 14:54:34	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85224048364  
 0000 0000)

Department did not respond.

[No.]	[Id]	[Date/Time]	[Type]
5	2-TS9PJY	2016-01-23 17:19:59	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85224040729  
 0000 0000)

Department did not respond.

[No.]	[Id]	[Date/Time]	[Type]
6	2-TS9PM5	2016-01-23 17:22:43	Call - Outbound

[Detail]

Call To Department (Tel. No.: +85262592402  
 00000000)

職員陳先生表示，只會即時處理油漬問題，未能即時到場清理黃泥沙。陳先生表示會轉告早更職員於明早盡快駛車前往清理。

[No.]	[Id]	[Date/Time]	[Type]
7	2-TUHD3M	2016-01-24 22:32:25	Web Update from Department

[Detail]

I acknowledge receipt of this case and follow up will be taken.

[No.] [Id] [Date/Time] [Type]  
8 2-TWCLUF 2016-01-25 19:59:34 Email - Inbound from Department

[Detail]  
Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.] [Id] [Date/Time] [Type]  
9 2-TWPTGV 2016-01-26 09:27:20 SMS - Outbound

[Detail]  
鄧先生:

投訴龍鼓灘路往環保園方向行車路有黃泥沙 (檔案編號: 2-1800182690)

就上述個案, 食物環境衛生署表示有關事項同時涉及土木工程拓展署和路政署處理。我們已將你的個案轉介上述部門跟進。

如有任何查詢, 歡迎與我們的職員聯絡。

1823

客戶服務主任

梁學輝謹覆

2016年01月26日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

[No.] [Id] [Date/Time] [Type]  
10 2-TXK8VK 2016-01-26 09:29:44 Email - Inbound from Department

[Detail]  
Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.] [Id] [Date/Time] [Type]  
11 2-TXKJIG 2016-01-26 09:39:15 Web Update from Department

[Detail]  
Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO  
CC party : CE/FM

---

#### IV. CASE DETAILS:

Direct Reply By Department: N

Subject Matter : 土木工程拓展署一般資訊

Description :

25/1 FEHD: Re. the captioned 6 complaints, please also refer to CEDD & HyD for parallel action.

---

投訴人投訴龍鼓灘路, 未入到龍鼓灘位置, 往環保園方向行車路兩邊都有黃泥沙, 要求部門盡快清理。

#### Specific Questions and Answers :

1) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進, 你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商, 讓他們可以直接回覆您?

Ans: 願意

Remark:

<ENDS of Specific Question>

V. EVENT DETAILS:

Event Date & Time : null

EVENT LOCATION:

Room :  
Floor :  
Block No. :  
Building Name :  
Estate :  
Street No. :  
Street Name : 龍鼓灘路  
District :  
Region : NT  
Slope No :  
Lamp Post No :  
Landmark :  
Lot No. :

VI. CONTACT INFORMATION:

Last Name : Mr. 鄧  
First Name : .  
Alt Name :  
Personal ID :  
Contact Address :  
Daytime No. :  
Nighttime No. :  
Mobile : ██████████  
Alt Tel No. :  
Fax :  
Email Address :  
Preferred Reply Channel: Call  
Special Instructions:  
Case Source : General Public  
Best Call Time : 00:00:00 To 23:59:59

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.] [Id] [Date/Time] [Type]  
8 2-TWCLUF 2016-01-25 19:59:34 Email - Inbound from Department

[Detail]  
Dear 1823 duty manager,

Re. the captioned 6 complaints, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(CI)TM

FEHD

Tel: 2404 8364



[No.] [Id] [Date/Time] [Type]  
10 2-TXK8VK 2016-01-26 09:29:44 Email - Inbound from Department

[Detail]  
This is to acknowledge receipt of your message. Where appropriate, we will  
give you a reply. Thank you. (This is generated by an auto-reply  
programme.)

本署已收到你的。如有需要，我作出回覆。(此自影出的)

息。)



<b>ETS-Testconsult Ltd – Environmental Team (ET)</b>			
<b>Complaint Investigation Report</b>			
<b>Contract No.CV/2013/06 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank</b>			
<b>Details of the Complaint received on 27 January 2016</b>			<b>Log No. : 018</b>
<b>Date and Time of Complaint</b>		27 January 2016 (16:43:26)	
<b>Location</b>			
202 Lung Mun Road (near River Trade Terminal)			
<b>Circumstances:</b>			
One complaint received on 27 January 2016 (16:43:26), which was forwarded to ET on 02 February 2016, from public (1823 Case # 2-1815145897) against the mud noted at 202 Lung Mun Road (near River Trade Terminal). The complainant complained that waste generated caused an environmental nuisance.			
<b>Follow action(s)</b>			
<b>Follow up by</b>	ET	<b>Date</b>	04 February 2016
<b>Details of Follow up action(s)</b>			
Refer to the ET site investigation on 04 February 2016, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. (Photos on ET follow-up investigation at Tuen Mun Area 38 Fill Bank on 04 February 2016).			
However, the Contractor was still reminded to increase the road cleaning frequency and improve the cleaning efficiency of the road sweeper. The Contractor replied that additional mitigation measures to cleanup the mud/debris adhered on the wheels of site truck will be implemented and additional road sweeper and water spraying will be arranged if necessary.			
<b>Details of Action(s) Taken by the Contactor</b>			
<ol style="list-style-type: none"> <li>1. Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road;</li> <li>2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;</li> <li>3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;</li> <li>4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;</li> <li>5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.</li> </ol>			
<b>Conclusion</b>			
Due to the complaint, the Contractor has implemented control measures to reduce waste impact to the environment but some improvement should be carried out. The Contractor will take more effort on cleaning of site haul road and public road, and also site truck before leaving the site.			
<b>Prepared by:</b>	Linda Law	<b>Signature:</b>	
<b>Designation:</b>	Senior Environmental Officer	<b>Date:</b>	05 February 2016
<b>Checked by:</b>	C. L. Lau	<b>Signature:</b>	
<b>Designation:</b>	Environmental Team Leader	<b>Date:</b>	05 February 2016



## Photos during ET site investigation at TM38 on 04 February 2016

### Wheel Washing Facilities



### Site Entrance



### Lung Mun Road



1823 CASE: 2-1815145897  
 DEPT REF:  
 Request Type : Complaint  
 Channel : Mobile  
 Case Creation Date : 2016-01-27 16:43:26

---



---

I. DUE DATE:

Acknowledgement : 2016-02-02 16:15:21  
 Interim Reply : 2016-02-04 17:32:36  
 Final Reply : 2016-02-11 17:32:36

---



---

II. ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2016-01-27 16:43:32	In Progress	FEHD	FEHD District Office (Tuen Mun 新界 屯門區)
2016-01-28 17:32:03	Cancelled	CEDD	Enquiry_CEDD
2016-01-28 17:45:20	Open	CEDD	SE/P5(FMD)

---



---

III. CONTACT HISTORY:

[No.]	[Id]	[Date/Time]	[Type]
1	2-U0T3SO	2016-01-27 15:45:52	Apps - Inbound

[Detail]  
 Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.]	[Id]	[Date/Time]	[Type]
2	2-U0Y13C	2016-01-27 16:53:43	Email - Outbound

[Detail]  
 先生/女士:

DEU00011601271540269MY 有關屯門龍門路202號馬路長期有污泥事宜 (檔案編號: 2-1815145897)

謝謝你於2016年01月27日給「1823」的電子表格。

我們已將你的電子表格轉交食物環境衛生署跟進，並會盡快將跟進結果回覆你。

如有任何查詢，歡迎與我們的職員聯絡。

1823

客戶服務主任

何嘉雯謹覆

2016年01月27日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

1823 Online 已推出流動應用程式，請即下載，詳情請瀏覽  
<http://www.1823.gov.hk/big5/blog/about-1823-online-app-details.aspx>

[No.]	[Id]	[Date/Time]	[Type]
			第 1 頁

KG007SBSVR02\_6672\_9816\_7\_2-U3IB62

3 2-U2LOLF 2016-01-28 10:09:12 Email - Inbound from Department  
[Detail]  
Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.] [Id] [Date/Time] [Type]  
4 2-U3F7B5 2016-01-28 17:33:07 Email - Outbound  
[Detail]  
先生 / 女士:

DEU00011601271540269MY 有關屯門龍門路202號馬路長期有污泥事宜 (檔案編號: 2-1815145897)

就上述個案, 食物環境衛生署表示有關事項同時涉及土木工程拓展署的跟進範圍。我們已將你的個案轉介該部門跟進。

如有任何查詢, 歡迎與我們的職員聯絡。

1823

客戶服務主任

甘皓程謹覆

2016年01月28日

電話: 1823

傳真: 2760 1823

電郵: tellme@1823.gov.hk

1823 Online 已推出流動應用程式, 請即下載, 詳情請瀏覽  
<http://www.1823.gov.hk/big5/blog/about-1823-online-app-details.aspx>

[No.] [Id] [Date/Time] [Type]  
5 2-U3HHBL 2016-01-28 17:35:51 Email - Inbound from Department  
[Detail]  
Please view the details at VII. WRITTEN CONTACT INBOUND DETAILS

[No.] [Id] [Date/Time] [Type]  
6 2-U31B5H 2016-01-28 17:45:18 Web Update from Department

[Detail]  
Reassignment Option : Please re-assign to the following officer:SE/P5(FMD) of this department:CEDD CEO  
CC party : CE/FM

---

---

#### IV. CASE DETAILS:

Direct Reply By Department: N

Subject Matter : 陸上工程

Description :

27/1 FEHD: Re. the captioned complaint, please also refer to CEDD & HyD for parallel action.

---

該處馬路長期有污泥, 嚴重弄污附近出入的車輛, 在下雨天情況更為嚴重, 請跟進事件

[Location information: Latitude=22.367976,Longitude=113.939108,Address=香港屯門龍門路202號]

Specific Questions and Answers :

1) 請問是有關哪一方面?

Ans: 基礎設施工程(除單車徑)(如車路, 行人路, 天橋, 排水系統工程, 地盤平整等)

Remark:



1.1) 請問在那裡發生?

Ans: 新界西及北

Remark:

1.5) 請問是哪個工程範圍 / 項目?

Ans: 未能找到相關項目

Remark:

2) 請問該項目有什 問題?

Ans: 路面不平 / 路面有沙粒 / 路面有積水 / 道路設施損壞

Remark:

4) 請問可否提供該項目的工程編號?

Ans: 不知道

Remark:

5) 如果有需要將你的投訴轉介給負責有關工程的工程顧問或承建商跟進, 你是否願意將你的姓氏、聯絡方法等個人資料轉介給工程顧問或承建商, 讓他們可以直接回覆您?

Ans: 願意

Remark:

<ENDS of Specific Question>

---



---

V. EVENT DETAILS:

Event Date & Time : null

EVENT LOCATION:

Room :  
 Floor :  
 Block No. :  
 Building Name :  
 Estate :  
 Street No. :  
 Street Name : 龍門路  
 District :  
 Region : NT  
 Slope No :  
 Lamp Post No :  
 Landmark :  
 Lot No. :

---



---

VI. CONTACT INFORMATION:

Last Name : Choi  
 First Name : .  
 Alt Name :  
 Personal ID :  
 Contact Address :  
 Daytime No. :  
 Nighttime No. :  
 Mobile :  
 Alt Tel No. :  
 Fax :  
 Email Address : krischoi@ymail.com  
 Preferred Reply Channel: Email  
 Special Instructions:  
 Case Source : General Public  
 Best Call Time : 08:00:00 To 22:00:00

---



---

VII. WRITTEN CONTACT INBOUND DETAILS:

[No.]	[Id]	[Date/Time]	[Type]
1	2-UOT3SO	2016-01-27 15:45:52	Apps - Inbound
[Detail]			

Case Type: Complaint

Name: Choi

Email: krischoi@ymail.com

Location:

香港屯門龍門路202號

Map: <http://maps.google.com.hk/maps?ie=UTF8&z=19&q=loc:22.367976,113.939108>

Details:

該處馬路長期有污泥，嚴重弄污附近出入的車輛，在下雨天情況更為嚴重，請跟進事件

[Location information: Latitude=22.367976,Longitude=113.939108,Address=香港屯門龍門路202號]

Transaction Ref: DEU00011601271540269MY

Original Transaction Ref:

Transaction Time: 2016-01-27 15:40:00

Tel No.:

Best Time to Call: 8am-10pm

File upload: Yes

Input Channel: IPHONE

Additional Info: Latitude=22.367976,Longitude=113.939108,Address=香港屯門龍門路202號

[No.] [Id] [Date/Time] [Type]  
3 2-U2LOLF 2016-01-28 10:09:12 Email - Inbound from Department  
[Detail]  
Dear 1823 duty manager,

Re. the captioned complaint, please also refer to CEDD & HyD for parallel action.

Regards,

MAN Miu-ha

HI(C1)TM

KG007SBSVR02\_6672\_9816\_0\_2-U0T3SO\_2016-01-27 DEU00011601271540269MY

寄件者: apps@euicc.hksarg  
寄件日期: 2016年1月27日星期三 15:45  
主旨: DEU00011601271540269MY  
附件: File\_4.JPG; File\_3.JPG; File\_5.JPG; File\_2.JPG; File\_1.JPG; EU-1823.pdf

Case Type: Complaint

Name: Choi

Email: krischoi@ymail.com

Location:  
香港屯門龍門路202號

Map: <http://maps.google.com.hk/maps?ie=UTF8&z=19&q=loc:22.367976,113.939108>

Details:  
該處馬路長期有泥，嚴重弄附近出入的車輛，在下雨天情況更為嚴重，請跟進事件  
[Location information: Latitude=22.367976,Longitude=113.939108,Address=香港屯門龍門路202號]

Transaction Ref: DEU00011601271540269MY

Original Transaction Ref:

Transaction Time: 2016-01-27 15:40:00

Tel No.:

Best Time to Call: 8am-10pm

File upload: Yes

Input Channel: IPHONE

Additional Info: Latitude=22.367976,Longitude=113.939108,Address=香港屯門龍門路202號



1823

香港特別行政區

## 1823 Online - 查詢或投訴電子表格

你可以使用本電子表格，就政府部門提出查詢、投訴、建議或讚賞。

請說明有關事項的詳情，並盡可能包括日期、時間及地點：

詳情

種類

投訴

詳情

該處馬路長期有污泥，嚴重弄污附近出入的車輛，在下雨天情況更為嚴重，請跟進事件

[Location information:

Latitude=22.367976,Longitude=113.939108,Address=香港屯門龍門路202號]

上載之檔案

File\_5.JPG  
File\_4.JPG  
File\_3.JPG  
File\_2.JPG  
File\_1.JPG

聯絡方法

姓名 Choi

電郵地址 krischoi@ymail.com

電話號碼 \_\_\_\_\_

- 最方便的聯絡時間
- 早上 (約上午 8:00 - 中午 12:00)
  - 下午 (約中午 12:00 - 下午 6:00)
  - 傍晚 (約下午 6:00 - 晚上 10:00)
  - 晚上 (約晚上 10:00 - 凌晨 12:00)
  - 凌晨 (約凌晨 12:00 - 上午 8:00)

我同意向

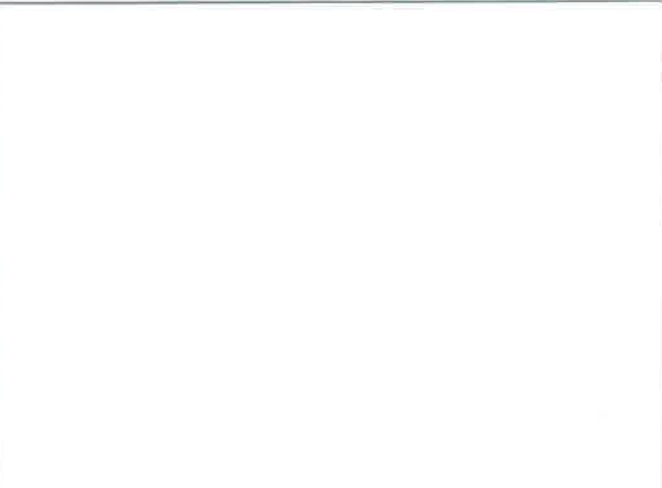
1823，及處理這個案的部門及機構

1823

提供個人資料（包括姓名、電郵地址和電話），以供跟進個案之用。

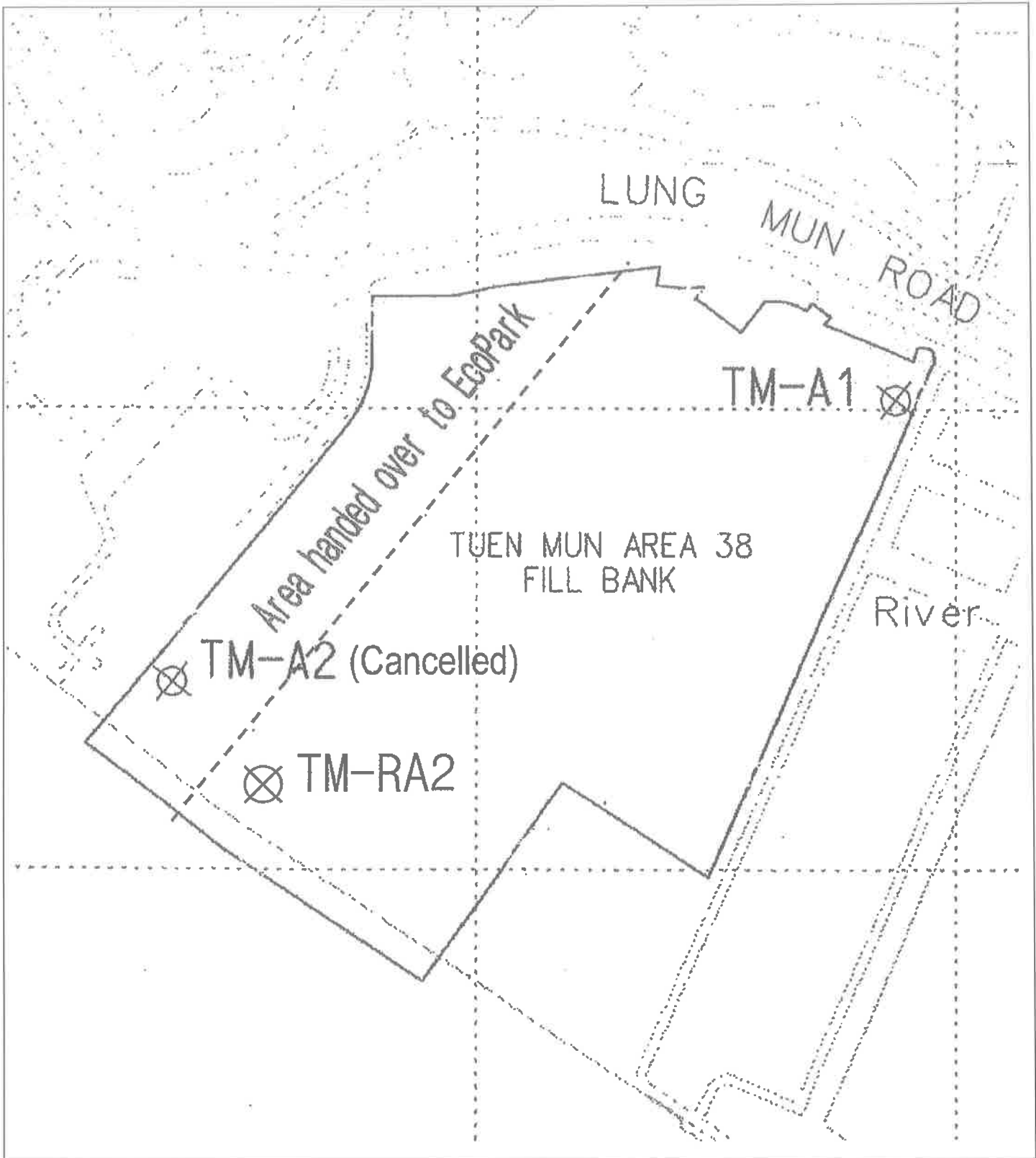
1823 將處理你的個案，如有需要我們會把個案轉介有關部門跟進，有關部門會直接由或經由 1823 給你回覆。

如需查詢個案進度，你可以電郵、電話、傳真、文字短訊或郵寄方式聯絡我們；亦歡迎你就 1823 的服務表達意見。對於你的意見，我們會在 10 個曆日內給予回覆。如未能如期作覆，我們將於 10 個曆日內先給你初步回覆，再於 30 個曆日內給你詳盡答覆。





## Figures

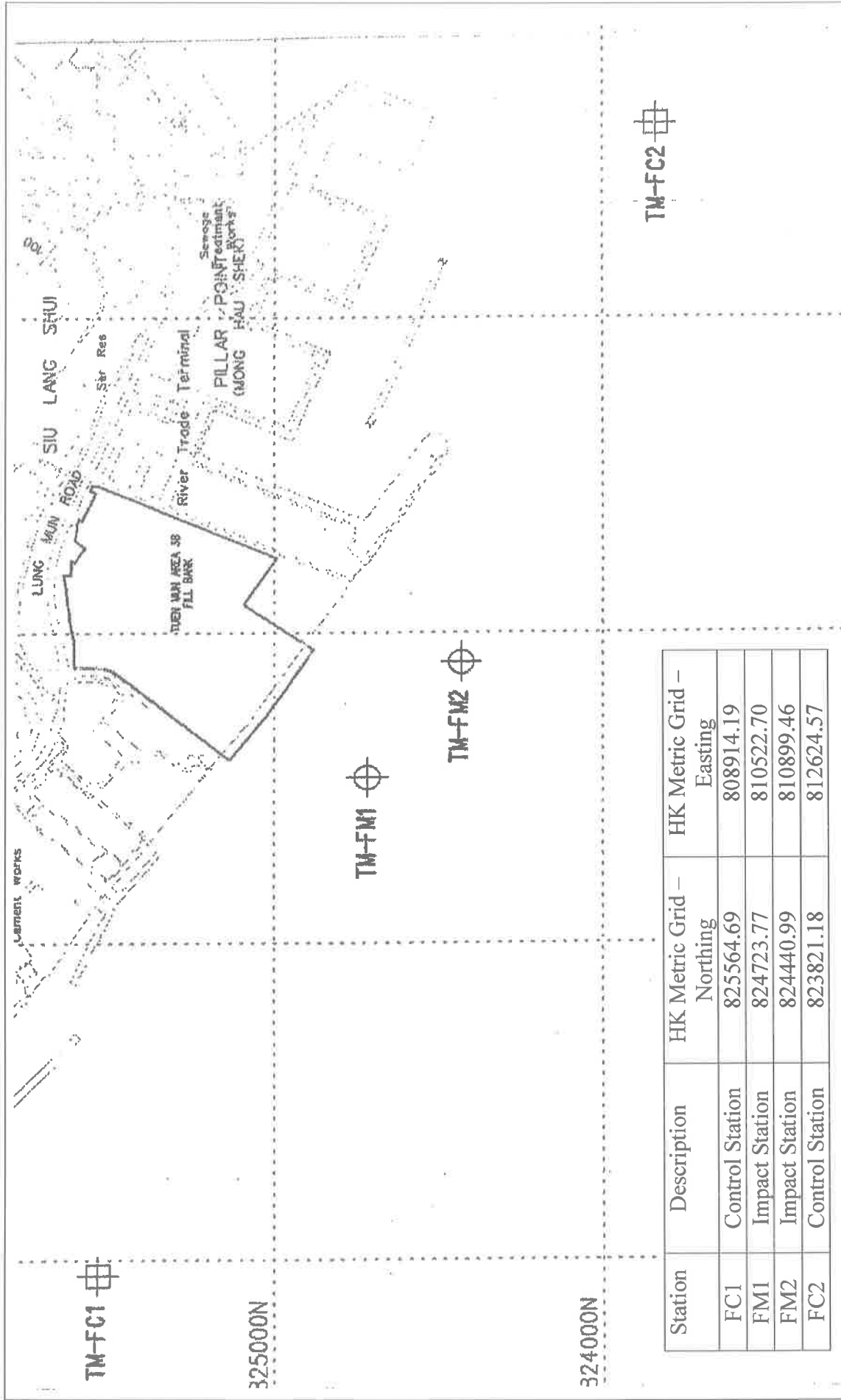


Contract No. CV/2013/06  
 Handling of Surplus Public Fill (2014-2016)

Figure 1  
 Locations of Air Quality Monitoring Stations –  
 Tuen Mun Area 38 Fill Bank



東業德勤測試顧問有限公司  
 ETS-TESTCONSULT LIMITED

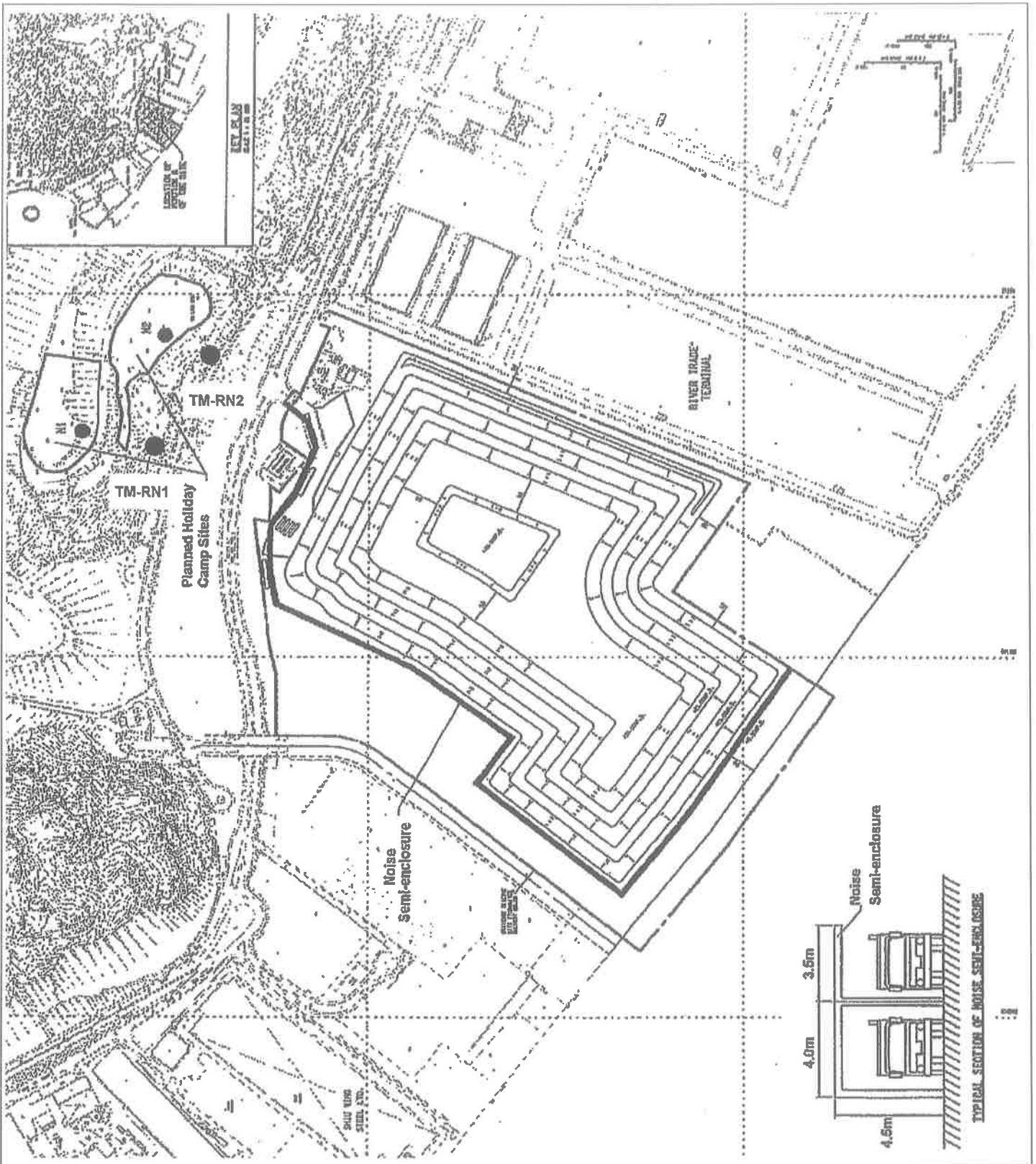


Station	Description	HK Metric Grid – Northing	HK Metric Grid – Easting
FC1	Control Station	825564.69	808914.19
FM1	Impact Station	824723.77	810522.70
FM2	Impact Station	824440.99	810899.46
FC2	Control Station	823821.18	812624.57

Contract No. CV/2013/06  
 Handling of Surplus Public Fill (2014-2016)

Figure 2  
 Locations of Water Quality Monitoring Station –  
 Tuen Mun Area 38 Fill Bank





Contract No. CV/2013/06  
 Handling of Surplus Public Fill (2014-2016)

Figure 3  
 Locations of Noise Quality Monitoring Stations –  
 Tuen Mun Area 38 Fill Bank



東業德勤測試顧問有限公司  
 ETS-TESTCONSULT LIMITED