

# **Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development**

# Monthly Environmental Audit Report No. 21 (Covering the Period from 1 July 2016 to 31 July 2016)

12 August 2016

Revision 00

**Main Contractor** 



**Independent Checker** 





Client: Hong Kong Housing Authority	Contract No. (if any):
Project Title: Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development	Project No.: 5135697
Document No.: 5135697-OR021-00	Controlled Copy No.:
Document Title:  Monthly Environmental Audit Report No. 21  (Covering the Period from 1 July 2016 to 31 July 2016)	
Covering Letter/Transmittal Ref. No.: 5135697/20.10/OC135/SO/RC	Date of Issue: 12 August 2016

### Revision, Review and Approval Records

		1	1	1	1
		1	1	1	1
		60	,		a Pak
00	Monthly EA Report No. 21	Ray Chow	Keith Chau	3 Speriton Or	Sylential Or
	Monthly Extreport No. 21	12 Aug 2016	12 Aug 2016	12 Aug 2016	12 Aug 2016
Rev.	Description	Prepared by /	Checked by /	Reviewed by /	Approved by /
ivev.	Description	date	date	date	date

### Distribution

Controlled Copy No.	Issued to
1 - 5	Environmental Protection Department
6	Hong Kong Housing Authority
7	Hsin Chong Construction Company Ltd.
8	Office Copy





### **Contents**

### **Executive Summary**

1	INTRO	DUCTION	2
1.1		Basic Project Information	2
1.2		Project Organisation	
1.3		Construction Programme	
1.4		Construction Works Undertaken During the Reporting Period	
2	ENVIR	ONMENTAL SITE AUDIT	4
2.1		Site Inspection	4
2.2		Advice on the Solid and Liquid Waste Management Status	4
2.3		Environmental Licenses and Permits	4
2.4		Implementation Status of Environmental Mitigation Measures	4
2.5		Summary of Complaints, Notification of Summons and Successful Prosecution	4
3	FUTUR	RE KEY ISSUES	6
3.1		Construction Programme for the Coming Months	6
3.2		Environmental Site Inspection Schedule for the Coming Month	
4	CONC	LUSION	7
4.1		Conclusions	7
۸nn	endices		
	endix A	Location of the Project and the Contract	
	endix B	Project Organization for Environmental Works	
	endix C	Construction Programme	
	endix D	Waste Flow Table	
	endix E endix F	Environmental Licenses and Permits Statistics on Environmental Complaints. Notification of Summons and Successful Prose	outions
ADD	HIUIX F	Statistics on Environmental Combiaints. Notification of Summons and Successful Prose	CULIONS





### **Executive Summary**

This monthly Environmental Audit Report is prepared for Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development (hereafter referred to as "the Project") for the Hong Kong Housing Authority (HA) of Hong Kong Special Administrative Region. The Project was awarded to Hsin Chong Construction Company Ltd. (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Independent Checker (IC) by the Contractor.

The Project is classified as a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). A Project Profile (Register No. PP-481/2013) was submitted for direct application of an Environmental Permit (EP) for the Project. The current EP (EP No: EP-452/2013) was issued on 6 June 2013. These documents are available through the EIA Ordinance Register. Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014.

This is the twenty-first monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 to 31 July 2016.

#### **Complaint Log**

There were no environmental complaints received during the reporting period.

#### **Notifications of Summons and Successful Prosecutions**

There were no notifications of summons or prosecutions received during this reporting period.

#### **Future Key Issues**

The future key issues include potential noise impact, air quality impact, water quality impact and waste management arising from the following construction activity to be undertaken in the upcoming month:

Internal finishes.





#### INTRODUCTION

### 1.1 Basic Project Information

- 1.1.1 This monthly Environmental Audit Report is prepared for Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 (hereafter referred to as "the Project") for the Hong Kong Housing Authority (HA) of Hong Kong Special Administrative Region. The Project was awarded to Hsin Chong Construction Company Ltd. (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Independent Checker (IC) by the Contractor.
- 1.1.2 The Project is classified as a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). A Project Profile (Register No. PP-481/2013) was submitted for direct application of Environmental Permit (EP). The current EP (EP No: EP-452/2013) was issued on 6 June 2013. These documents are available through the EIA Ordinance Register. Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014. The works areas of the Project and the Contract are shown in **Appendix A**.
- 1.1.3 A Temporary Sewage Pumping Station (TSPS) was proposed as an ancillary facility to the proposed Tung Chung Area 56 Public Housing Development, to collect the sewage solely from the Tung Chung Area 56 Public Housing Development only and discharge it to the existing public sewer at Ying Hei Road.
- 1.1.4 The proposed TSPS is an un-manned facility and is not considered as a sensitive use susceptible to the influence of to external potential environmentally polluting uses.
- 1.1.5 According to the Planning Department's Tung Chung Town Centre Area Layout Plan No. L/I-TCTC/1E, a permanent sewage pumping station (SPS) will be provided in the Tung Chung Area 104 located to the northeast of the Tung Chung Area 56. Upon the intake of the population of Tung Chung Area 56 Public Housing Development, the TSPS is expected to provide a few years of service to the public housing development. Upon the commissioning of the permanent sewage pumping station in Tung Chung Area 104, sewage generated in Tung Chung Area 56 public housing development will be conveyed to SPS in Tung Chung Area 104 and the operation of the TSPS in Area 56 will be terminated. The infrastructure works including permanent foul water pipes and manhole to the permanent SPS in Tung Chung Area 104 is scheduled to be provided during the construction period of the Tung Chung Area 56 public housing development for ease of future transition operations. Thus the TSPS in Area 56 is of temporary nature.
- 1.1.6 This is the twenty-first monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 to 31 July 2016.



### 1.2 Project Organisation

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Engineer or Engineer's Representative (Hong Kong Housing Authority)	Civil Engineer	Rachel Fung	2129 3709	2129 3095
Contractor	Site Agent	Ivan Ho	9383 8280	
(Hsin Chong Construction Company Ltd.)	Environmental Manager	Pan Fong	9436 9435	3480 1791
	Environmental Supervisor	Connie Cheng	9656 1417	
Independent Checker (Atkins China Limited)	Independent Checker	Ray Chow	2972 1305	2890 6343

### 1.3 Construction Programme

1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.

### 1.4 Construction Works Undertaken During the Reporting Period

- 1.4.1 A summary of the construction activities undertaken during the reporting period is shown below:
  - Internal finishes.



### 2 ENVIRONMENTAL SITE AUDIT

### 2.1 Site Inspection

- 2.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental protection and pollution control mitigation measures for the Project. During the reporting period, site inspections were carried out on 5, 12, 20 and 26 July 2016.
- 2.1.2 Observations raised during the site inspections and the follow up actions taken by the Contractor are described below.

Date of Inspection	Observation	Actions Taken by Contractor / Recommendation	Date of Observations Closed
5 July 2016	No observation was made during this inspection.	Nil	Nil
12 July 2016	Stagnant water was observed at the roof of TSPS.	The stagnant water at the roof of TSPS was removed.	20 July 2016
20 July 2016	No observation was made during this inspection.	Nil	Nil
26 July 2016	No observation was made during this inspection.	Nil	Nil

2.1.3 The Contractor has rectified all observation as identified during environmental site inspections during the reporting month.

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

- 2.2.1 The Contractor registered as a chemical waste producer for the Project. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 2.2.2 The monthly summary of waste flow table is detailed in **Appendix D**.
- 2.2.3 The Contractor was reminded to store the chemical waste containers properly on site in accordance with the Code of Practise on the Packaging, Labelling and Storage of Chemical Wastes.

#### 2.3 Environmental Licenses and Permits

2.3.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix E**.

### 2.4 Implementation Status of Environmental Mitigation Measures

2.4.1 The Contractors has carried out mitigation measures recommended in the Project Profile and EP.

### 2.5 Summary of Complaints, Notification of Summons and Successful Prosecution

- 2.5.1 There were no complaints received during the reporting period.
- 2.5.2 No notification of summons and prosecution was received during the reporting period.



2.5.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix F**.



#### 3 FUTURE KEY ISSUES

- 3.1 Construction Programme for the Coming Months
  - 3.1.1 According to the Contractor, the major construction activity for August 2016 includes:
    - Internal finishes.
- 3.2 Environmental Site Inspection Schedule for the Coming Month
  - 3.2.1 The tentative schedule for weekly site inspections for August 2016 is 2, 9, 16, 23 and 30 August 2016.





#### 4 CONCLUSION

### 4.1 Conclusions

- 4.1.1 Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014.
- 4.1.2 The weekly site inspections were carried out on 5, 12, 20 and 26 July 2016. The Contractor has rectified all observation as identified during environmental site inspections during the reporting month. The Contractors has carried out mitigation measures recommended in the Project Profile and EP.
- 4.1.3 There were no environmental complaints received during the reporting period.
- 4.1.4 No notification of summons and successful prosecution were received during the reporting period.

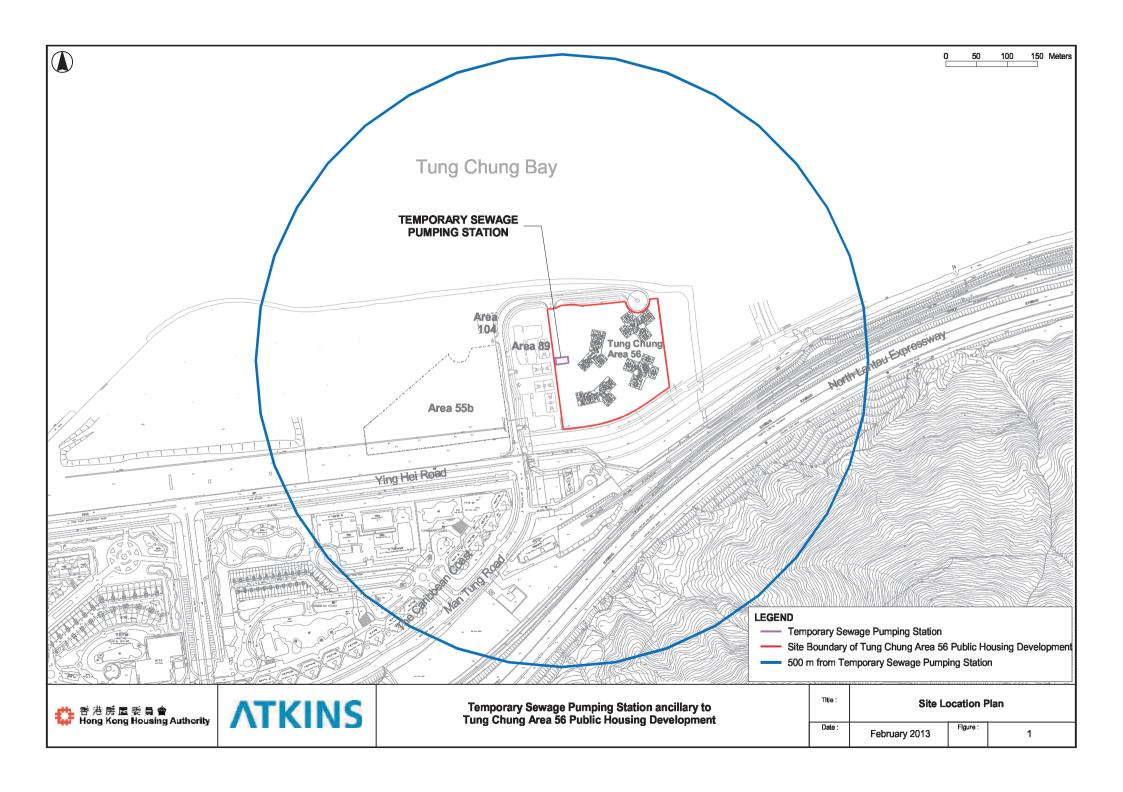




### **APPENDIX A**

Location of the Project and the Contract





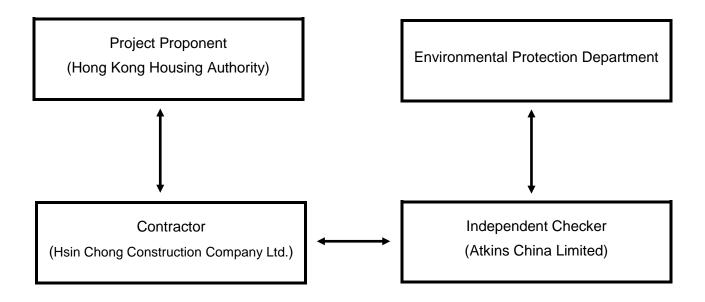


### **APPENDIX B**

Project Organization for Environmental Works



### Project Organization for Environmental Works





### **APPENDIX** C

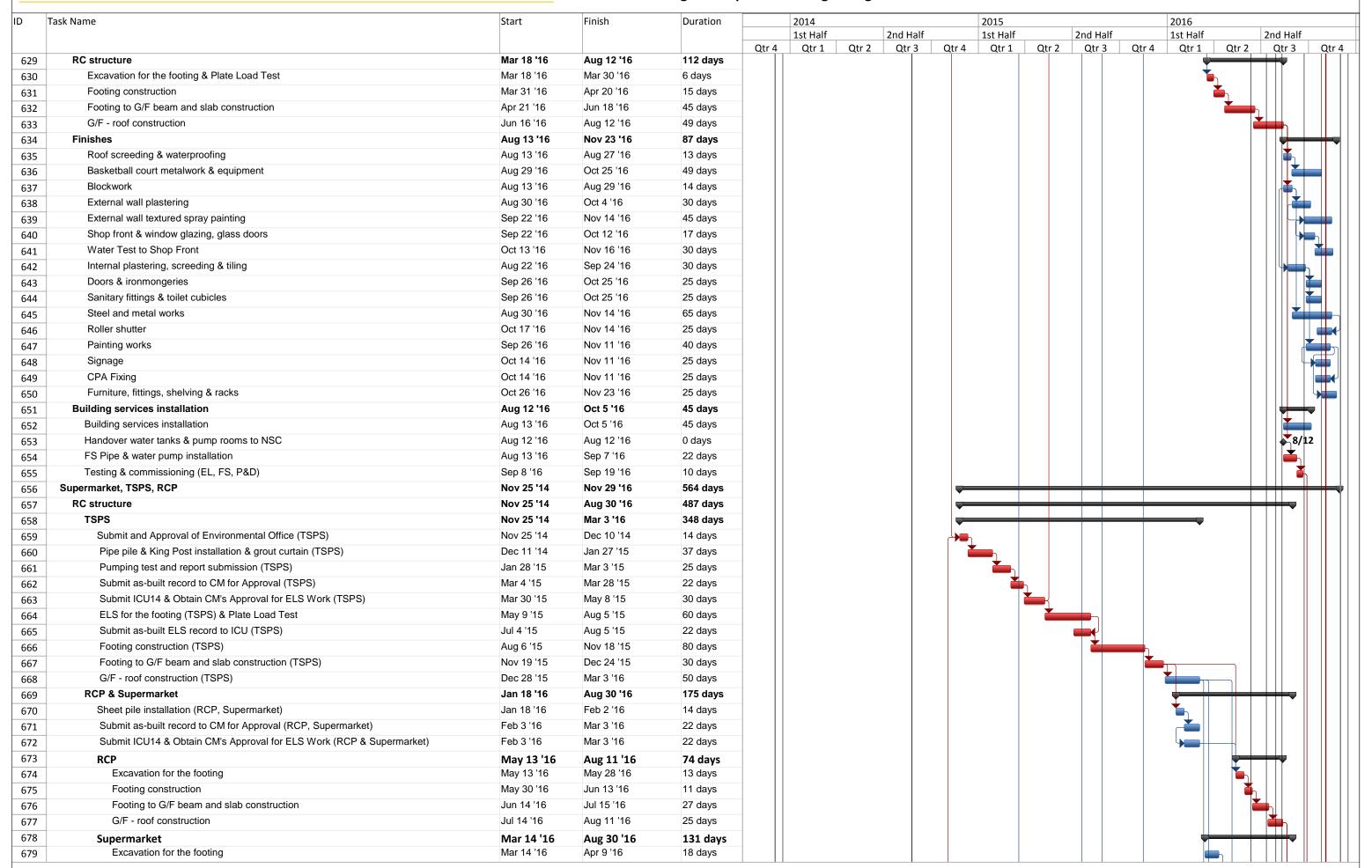
Construction Programme



## Master Programme for

Rev.:11 Date: 18 May 2016

### Construction of Public Rental Housing Development at Tung Chung Area 56



# Master Programme for

Rev.:11 Date: 18 May 2016

### Construction of Public Rental Housing Development at Tung Chung Area 56

	ask Name	Start Finish Duration							2014 2015											
						1st Half		2nd Half		1st H			Half		1st Half		2nd H			
580	Footing construction	Apr 11 '16	May 18 '16	27 days	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr	4 Qtr	1 Qtr	2   C	tr 3	Qtr 4	Qtr 1	Qtr 2	Qtr	3		
81	Footing to G/F beam and slab construction	May 12 '16	Jul 7 '16	45 days	-															
	G/F - roof construction	Jul 5 '16	Aug 30 '16	49 days																
582	Finishes	Mar 22 '16	Nov 21 '16	195 days																
583	Internal Finishes - RCP		Oct 15 '16	50 days																
584		Aug 18 '16																		
585	Roof screeding & waterproofing - RCP	Aug 18 '16 Oct 11 '16	Oct 9 '16	45 days														1		
586	Green roof/sitting bench - RCP Internal Finishes - TSPS	Mar 22 '16	Nov 8 '16	25 days											•	<del> </del>				
587			May 30 '16	49 days																
588	Roof screeding & waterproofing - TSPS	Jun 20 '16	Aug 1 '16	36 days														Ш		
589	Roofing & railing - TSPS	Sep 1 '16	Oct 11 '16	34 days																
590	Internal Finishes - Supermarket	Aug 31 '16	Oct 28 '16	50 days																
591	Roof Basket Ball Court Finishes & Roof Finishes - Supermarket	Aug 31 '16	Nov 21 '16	70 days																
592	External wall plastering	Sep 2 '16	Sep 24 '16	20 days																
593	External wall textured spray painting	Sep 9 '16	Oct 3 '16	20 days																
594	Shop front & window glazing, glass doors	Sep 9 '16	Oct 8 '16	25 days																
595	Water Test to Shop Front	Oct 9 '16	Oct 20 '16	10 days														$\  \  \Psi$		
596	Doors & ironmongeries	Oct 9 '16	Oct 17 '16	7 days																
597	Sanitary fittings & toilet cubicles	Oct 18 '16	Oct 31 '16	12 days																
598	Steel and metal works	Sep 21 '16	Oct 20 '16	25 days																
599	Roller shutter	Oct 9 '16	Nov 4 '16	23 days																
700	Painting works	Oct 9 '16	Oct 17 '16	7 days																
701	Signage	Oct 27 '16	Nov 11 '16	14 days																
702	Building services installation	Aug 4 '16	Oct 15 '16	62 days														-		
703	Building services installation	Aug 18 '16	Oct 15 '16	50 days																
704	Make Available water tanks & pump rooms to NSC	Aug 4 '16	Aug 4 '16	0 days														3/4		
705	FS installation & water pump installation	Aug 4 '16	Sep 1 '16	25 days														<u></u>		
706	Testing & commissioning (EL, FS, P&D)	Sep 2 '16	Sep 22 '16	18 days																
707	Refuse Handling System Installation	Sep 6 '16	Nov 29 '16	72 days																
708	Make Available RCP, JCP & Refuse Rooms to Direct Contractor	Sep 6 '16	Sep 6 '16	0 days														9/6		
709	Make Available Vehicular Access for Transportation of Equipment	Sep 6 '16	Sep 6 '16	0 days														<b>♦</b> 9/6		
710	Installation Works	Oct 17 '16	Nov 21 '16	31 days																
711	Trial Run by Refuse Collection Vehicle	Nov 22 '16	Nov 29 '16	7 days																
712	Wet Market	Nov 9 '15	Nov 29 '16	305 days																
713	RC structure (Detailed Programmed to be Submitted Separately)	Nov 9 '15	Oct 11 '16	263 days																
714	Excavation for the footing	Nov 9 '15	Dec 1 '15	20 days																
715	Zone 1	Nov 19 '15	Sep 10 '16	229 days														<b>→</b>		
716	ELSW & Footing construction	Nov 19 '15	Dec 30 '15	33 days											<u> </u>			`		
717	Footing to G/F beam and slab construction and UG Drainage Works	Dec 31 '15	May 9 '16	94 days										,						
718	G/F - M/F construction	May 11 '16	Jun 18 '16	31 days																
719	M/F - roof construction	Jun 18 '16	Aug 17 '16	51 days	-															
720	Planter wall & other RC features on roof	Aug 18 '16	Sep 10 '16	21 days	-													<b>∠</b> ∭		
721	Zone 2	Dec 5 '15	Sep 9 '16	214 days																
722	ELSW & Footing construction	Dec 5 '15	Jan 16 '16	30 days										_				•		
723	Footing to G/F beam and slab construction and UG Drainage Works	Jan 18 '16	May 27 '16	97 days	-									_						
724	G/F - roof construction	May 28 '16	Aug 16 '16	66 days	- $ $															
725	Planter wall & other RC features on roof	Aug 17 '16	Sep 9 '16	21 days														_ ∥		
	Zone 3	Dec 22 '15	Sep 9 16	209 days										_						
726																				
727	ELSW & Footing construction	Dec 22 '15	Feb 2 '16	31 days																
728 729	Footing to G/F beam and slab construction and UG Drainage Works	Feb 3 '16	Jun 15 '16	97 days																
	G/F - roof construction	Jun 16 '16	Sep 1 '16	66 days														<b>⊩</b>		



### **APPENDIX D**

Waste Flow Table



# Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development Waste Flow Table

	Estima	ated Annual Quar	ntities of Inert C&	D Materials (in '00	0 Kg)	Estimated Quantities of C&D Waste								
Month	Total Quantity Generated	Suitable for Recycled Aggregates	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	Timber			
	(a)	(b)	(c)	(d)	(e=a-b-c-d)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000litre)	(in '000 Kg)	(in '000 Kg)			
	2014													
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.160	0.000			
December	4.910	0.000	0.000	0.000	4.910	0.000	0.000	0.000	0.000	5.830	0.000			
	2015													
January	5.970	0.000	0.000	0.000	5.970	0.000	0.000	0.000	0.000	2.880	0.000			
February	4.540	0.000	0.000	0.000	4.540	0.000	0.000	0.000	0.000	2.450	0.000			
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.480	0.000			
April	1097.040	0.000	0.000	0.000	1097.040	0.000	0.000	0.000	0.000	1.930	0.000			
May	467.250	0.000	0.000	0.000	467.250	0.000	0.000	0.000	0.000	6.520	0.000			
June	1237.690	0.000	0.000	0.000	1237.690	0.000	0.000	0.000	0.000	9.720	0.000			
July	61.480	0.000	0.000	0.000	61.480	0.000	0.000	0.000	0.000	8.680	0.000			
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.210	0.000			
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.170	0.000			
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.180	0.000			
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.940	0.000			
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.380	0.000			
						2016								
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.820	0.000			
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.230	0.000			
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.640	0.000			
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.100	0.000			
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.830	0.000			
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.310	0.000			
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.820	0.000			
August														
Grand Total	2878.880	0.000	0.000	0.000	2878.880	0.000	0.000	0.000	0.000	128.280	0.000			

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



### **APPENDIX E**

**Environmental Licenses and Permits** 



### **Summary of Environmental Licences and Permits Application and Status**

### **Environmental Permit (EP)**

EP No.	EP Holder	Date of EP Issued	Expiry Date	Area Coverage	Status
EP-452/2013	Hong Kong Housing	6 Jun 2013	N/A	TSPS Only	Active
	Authority				

### Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation

Notification Ref. No.	Area Coverage	Valid Since	Expiry Date
367052	Entire Site of the Contract	13 Nov 2013	N/A
	(include TSPS)		

### **Billing Account for Disposal of Construction Works**

Billing Account No.	Area Coverage	Valid Since	Expiry Date
7018949	Entire Site of the Contract	16 Dec 2013	N/A
	(include TSPS)		

### **Chemical Waste Producer Registration**

Waste Producer No.	Area Coverage	Major Chemical Waste Type	Valid Since	Expiry Date
5213-950-H2913-43	Entire Site of the Contract (include TSPS)	Spent lubricant, Spent Flammable Liquid, Spent organic solvent, contaminated rags	19 Nov 2014	N/A

### **Wastewater Discharge Licence**

Licence Number	Area Coverage	Valid Since	Expiry Date
WT00018218-2014	Entire Site of the Contract	30 Jan 2014	31 Jan 2019
	(include TSPS)		

### **Construction Noise Permit (CNP)**

CNP Number	Area Coverage	Valid Since	Expiry Date	<b>Current Status</b>
GW-RS1162-14	Entire Site of the Contract (include TSPS)	24 Oct 2014	23 Apr 2015	Expired
GW-RS0418-15	Entire Site of the Contract (include TSPS)	24 Apr 2015	23 Oct 2015	Expired
GW-RS1088-15	Entire Site of the Contract (include TSPS)	24 Oct 2015	23 Apr 2016	Expired
GW-RS1379-15	Entire Site of the Contract (include TSPS)	29 Dec 2015	28 Jun 2016	Expired
GW-RS0525-16	Entire Site of the Contract (include TSPS)	29 Jun 2016	28 Dec 2016	Expired, as replaced by GW-RS0796-16
GW-RS0796-16	Entire Site of the Contract (include TSPS)	29 Jul 2016	28 Jan 2017	Active



### **APPENDIX F**

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions



# **Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions**

Reporting period	Complaints	Notifications of Summons	Successful Prosecutions
21st Reporting Month (1 Jul 2016 – 31 Jul 2016)	0	0	0
Cumulative Statistics (19 Nov 2014 – 31 Jul 2016)	0	0	0