

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

**Monthly Environmental Audit Report No. 26  
(Covering the Period from 1 December 2016 to 31 December 2016)**

13 January 2017

Revision 00

Main Contractor



Independent Checker

**ATKINS**



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## **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-sixth monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1<sup>st</sup> to 31<sup>st</sup> December 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:

- Plant and Mechanical & Electrical Testing and Commissioning





## 1 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-sixth monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1<sup>st</sup> to 31<sup>st</sup> December 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 (Hsin Chong Construction Company Ltd.)	Site Agent	Ivan Ho	9383 8280	3480 1791
	Environmental Manager	Siu Hon Wing	9139 5367	
	Environmental Supervisor	Ryan Wong	6198 0730	
Independent Checker (Atkins China Limited)	Independent Checker	Ray Cheng	2972 1614	2890 6343

## 1.3 Construction Programme

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

1.3.2 Based on the weekly site inspections during the reporting month, the following were recorded:

- The inlet chamber, wet well and screening facilities were installed within a reinforced concrete structure (EP Specific Condition 2.2);
- The deodorizer with forced ventilation equipment was installed (EP Specific Condition 2.3);
- Odour removal rate will be verified (EP Specific Condition 2.3);
- The pump sets and the mechanically raked screens were provided within a reinforced concrete structure (EP Specific Condition 2.4);
- Provision of a soundproof door and installation of acoustic louvers with silencers at all exits of the provided ventilation exhaust fans will be verified (EP Specific Condition 2.4);
- A standby pump was provided (EP Specific Condition 2.5);
- Power supply will be verified (EP Specific Condition 2.5);
- A wet well will be verified (EP Specific Condition 2.5); and
- Roof greening and vertical greening will be implemented in June 2017 (EP Specific Condition 2.6).

## 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:



- Plant and mechanical & electrical installation of the TSPS; and
- Waterproofing.



## 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 6, 13, 20 and 29 December 2016.
- 2.1.2 Any environmental issue 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
06 December 2016	No particular environmental issue was recorded during this inspection.	Nil	Nil
13 December 2016	No particular environmental issue was recorded during this inspection	Nil	Nil
20 December 2016	1. Stagnant water was observed on the rooftop.	1. The stagnant water have been removed on the rooftop.	29 December 2016
29 December 2016	2. Sand stockpile was not covered on the rooftop.	2. The Contractor reminded to remove or cover the sand stockpile on the rooftop.	Follow up action(s) undertaken by the Contractor will be inspected during the site inspection to be undertaken in January 2017.

- 2.1.3 The Contractor has rectified the environmental issues as recorded in the weekly environmental site inspection conducted on 20 December 2016 during the reporting month. The Contractor has carried out mitigation measures recommended in the Project Profile and EP.

### 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 Contractor 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 January 2017 includes:

- Plant and mechanical & electrical testing and commissioning.

#### 3.2 Environmental Site Inspection Schedule for the Coming Month

3.2.1 The tentative schedule for weekly site inspections for the coming month is 3, 10, 17 and 24 January 2017.



## 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 6, 13, 20 and 29 December 2016. The Contractor has rectified the environmental issue as recorded in the weekly environment site inspection on conducted on 20 December 2016 during the reporting month. The Contractors has carried out mitigation measures recommended in the Project Profile and Environmental Permit.
- 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**

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### Location of the Project and the Contract



0 50 100 150 Meters

Tung Chung Bay

TEMPORARY SEWAGE PUMPING STATION

Area 104

Area 89

Tung Chung Area 56

Area 55b

Ying Hei Road

North Lantau Expressway

Man Tung Road

**LEGEND**

-  Temporary Sewage Pumping Station
-  Site Boundary of Tung Chung Area 56 Public Housing Development
-  500 m from Temporary Sewage Pumping Station

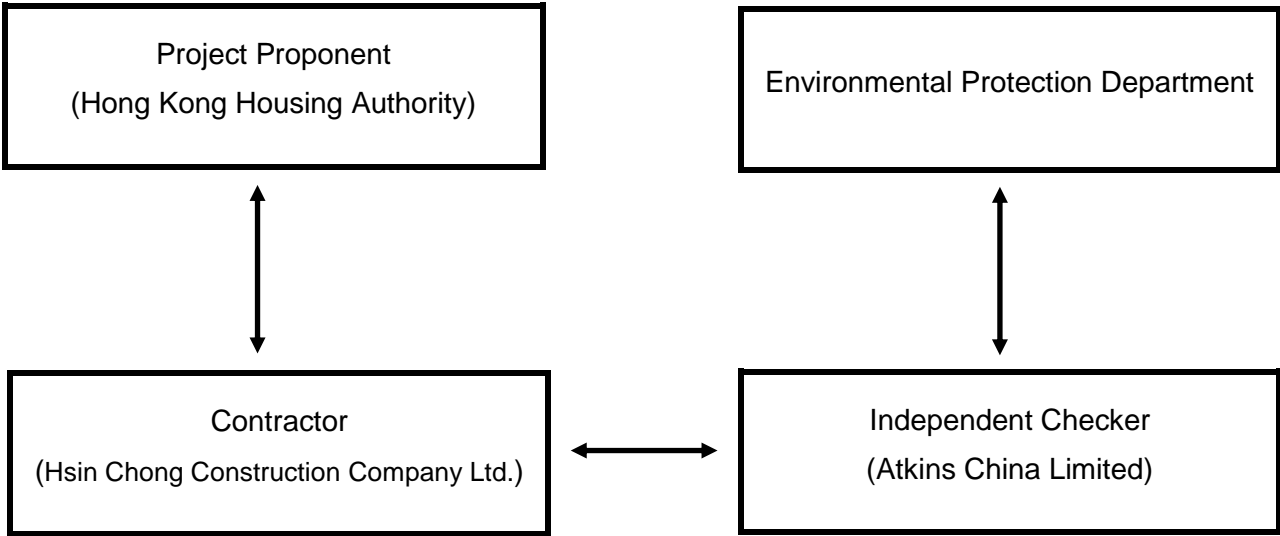


## **APPENDIX B**

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### Project Organization for Environmental Works

# Project Organization for Environmental Works





## **APPENDIX C**

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### Construction Programme



Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014												2015												2016												2017											
					1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter																							
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May																				
1	<b>Construct Particulars</b>	18-12-13	30-06-17	953 days																																																
2	Contract commencement of all sections of works	18-12-13	18-12-13	0 days	18-12																																															
3	Possession of Site	18-12-13	18-12-13	0 days	18-12																																															
4	Original Project Completion Date	17-08-16	17-08-16	0 days	17-08																																															
5	Extended Project Completion Date with Granted EOT (Up to 17 Nov 2016)	06-12-16	02-01-17	21 days																																																
6	Section 1	30-12-16	30-12-16	0 days	30-12																																															
7	Section 2	28-12-16	28-12-16	0 days	28-12																																															
8	Section 3	02-01-17	02-01-17	0 days	02-01																																															
9	Section 4	02-01-17	02-01-17	0 days	02-01																																															
10	Section 5 - Section 9	06-12-16	06-12-16	0 days	06-12																																															
11	<b>Anticipated completion Date</b>	22-12-16	30-06-17	135 days																																																
12	Section 1-4	31-05-17	31-05-17	0 days	31-05																																															
13	Section 5 - 7 & 9	30-06-17	30-06-17	0 days																																																
14	Section 8	22-12-16	22-12-16	0 days	22-12																																															
15	<b>Preliminaries</b>	18-12-13	28-06-17	952 days																																																
16	<b>Site Establishment</b>	18-12-13	28-06-17	952 days																																																
17	Mobilization and Temp Power / Water Supply Setup	18-12-13	17-01-14	30 edays																																																
18	Installation of Temp TxRm & Temp Elect Connection	02-01-14	02-04-14	90 edays																																																
19	Setup Temporary Container Site Office	18-12-13	25-12-13	7 edays																																																
20	Design Drawing and Calculation of Site Office to CM Approval	27-12-13	22-02-14	45 edays																																																
21	Setup Site Office	22-02-14	23-04-14	60 edays																																																
22	Setup of Curing Rooms & STC Office	18-12-13	17-01-14	30 edays																																																
23	Preconstruction condition survey	18-12-13	17-01-14	30 edays																																																
24	Submit Method Statement for New Covered Walk for CM Approval	24-12-13	21-02-14	45 edays																																																
25	New Covered Walkway erection along the Northern Boundary	22-02-14	25-10-14	180 edays																																																
26	Correctness Survey of Previous Works	18-12-13	25-12-13	7 edays																																																
27	Submission & Approval of Method Statement of Tower Crane 1st Setup (Block 1, 3 & 4)	19-12-13	17-02-14	60 edays																																																
28	Erection of Tower Cranes (Block 1, 3 and 4)	17-02-14	29-03-14	40 edays																																																
29	Footing for Tower Cranes (Block 2)	25-03-14	14-04-14	13 edays																																																
30	Erection of Tower Cranes (Block 2)	15-04-14	05-05-14	14 edays																																																
31	Dismantling of Tower Cranes (Block 1)	19-08-16	26-08-16	7 edays																																																
32	Dismantling of Tower Cranes (Block 2)	26-05-16	03-06-16	7 edays																																																
33	Dismantling of Tower Cranes (Block 3)	27-08-16	03-09-16	7 edays																																																
34	Dismantling of Tower Cranes (Block 4)	05-09-16	12-09-16	7 edays																																																
35	1st Erection of Material Hoists Starting from Ground Level (Block 1)	14-02-15	28-03-15	32 edays																																																
36	1st Erection of Material Hoists Starting from Ground Level (Block 2)	26-03-15	15-04-15	14 edays																																																
37	1st Erection of Material Hoists Starting from Ground Level (Block 3)	30-03-15	18-04-15	14 edays																																																
38	1st Erection of Material Hoists Starting from Ground Level (Block 4)	28-02-15	30-03-15	26 edays																																																
39	Dismantling of Material Hoists (Block 1 - 4)	13-09-16	18-10-16	28 edays																																																
40	1st Erection of Passenger Hoists (Block 1 - 4)	10-04-15	04-07-15	62 edays																																																
41	Dismantling of Passenger Hoists	27-01-17	07-03-17	28 edays																																																
42	1st Erection of Temporary Refuse Chutes (Block 1 - 4)	07-03-15	15-04-15	30 edays																																																
43	Dismantling of Temporary Refuse Chutes	01-09-16	04-10-16	26 edays																																																
44	Dismantle of Temp. Tx. Room (after notification from CLP)	24-12-16	12-01-17	14 edays																																																
45	Latest dismantle of Scaffold for Annex Building	28-04-17	22-05-17	16 edays																																																
46	Erection of Mid-way Gondola for Block 1, 3 and 4	08-10-15	24-10-15	14 edays																																																
47	1st Erection of Gondola at Roof for Block 2	27-02-16	20-05-16	60 edays																																																
48	Erection of Gondola at Roof for Block 1, 3 and 4 (High Zone)	06-02-16	09-03-16	24 edays																																																
49	Dismantle of Gondola (Block 1 - 4)	22-05-17	28-06-17	28 edays																																																
50	<b>Relocation of Site Office</b>	24-08-15	10-09-15	14 edays																																																
51	To 2/F of Block 2 for HA	01-09-15	10-09-15	7 edays																																																
52	To 1/F of Block 2 for HCC	24-08-15	31-08-15	7 edays																																																



Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014												2015												2016												2017		
					1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter														
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May											
53	Submission of Technical Document	18-12-13	20-08-16	716 days	[Gantt bar spanning from Dec 2013 to Aug 2016]																																						
225	Section 1 - Section 4 (Blk 1 to Blk 4)	09-01-14	31-05-17	916 days	[Gantt bar spanning from Jan 2014 to May 2017]																																						
226	Timber Mock Up for the Kitchen & VPB & Approval	15-02-14	31-07-14	123 days	[Gantt bar from Feb to Jul 2014]																																						
227	Precast Element Fabrication	24-03-14	26-09-15	408 days	[Gantt bar from Mar 2014 to Sep 2015]																																						
228	Steel Mould Fabrication	24-03-14	20-11-14	177 days	[Gantt bar from Mar 2014 to Nov 2014]																																						
229	Fabrication of Mock-up Precast Elements	06-06-14	05-07-14	21 days	[Gantt bar from Jun to Jul 2014]																																						
230	Study Mock Up for the VPB & Trial Panel and Approval	07-07-14	05-11-14	90 days	[Gantt bar from Jul to Nov 2014]																																						
231	Mass Production of Precast Elements	30-10-14	26-09-15	250 days	[Gantt bar from Oct 2014 to Sep 2015]																																						
232	1st Delivery of P.C. Elements	01-11-14	01-11-14	0 days	[Point marker at Nov 2014]																																						
233	Latest issuance date of R.C. details R/F slab & UR/F	17-06-14	17-06-14	0 days	[Point marker at Jun 2014]																																						
234	RC Structure	09-01-14	31-05-17	916 days	[Gantt bar spanning from Jan 2014 to May 2017]																																						
235	Domestic Blocks	09-01-14	18-06-16	660 days	[Gantt bar spanning from Jan 2014 to Jun 2016]																																						
236	Block 1	09-01-14	13-06-16	655 days	[Gantt bar spanning from Jan 2014 to Jun 2016]																																						
237	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days	[Gantt bar from Jan to Jun 2014]																																						
238	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days	[Gantt bar from Feb to May 2014]																																						
239	Water Test for Drainage Works	28-03-14	13-05-14	30 days	[Gantt bar from Mar to May 2014]																																						
240	Construction of Precast Water Tank	26-04-14	06-06-14	33 days	[Gantt bar from Apr to Jun 2014]																																						
241	Installation of P.C. Water Tank	01-09-14	13-09-14	10 days	[Gantt bar from Sep to Sep 2014]																																						
242	G/F - 1/F slab	26-05-14	19-09-14	82 days	[Gantt bar from May to Sep 2014]																																						
243	1/F - Level 16.75 (Transfer Structure)	09-08-14	13-11-14	74 days	[Gantt bar from Aug to Nov 2014]																																						
244	Level 16.75 - 2/F slab	31-10-14	03-12-14	29 days	[Gantt bar from Oct to Dec 2014]																																						
245	2/F to 3/F Slab	26-11-14	19-01-15	43 days	[Gantt bar from Nov 2014 to Jan 2015]																																						
246	3/F to 4/F Slab	09-01-15	13-02-15	30 days	[Gantt bar from Jan to Feb 2015]																																						
247	4/F to 5/F Slab	04-02-15	10-03-15	25 days	[Gantt bar from Feb to Mar 2015]																																						
248	5/F to 6/F Slab	07-03-15	30-03-15	20 days	[Gantt bar from Mar to Apr 2015]																																						
249	6/F to 7/F Slab	27-03-15	17-04-15	15 days	[Gantt bar from Mar to Apr 2015]																																						
250	7/F to 8/F Slab	15-04-15	30-04-15	14 days	[Gantt bar from Apr to May 2015]																																						
251	8/F to 9/F Slab	06-05-15	27-05-15	14 days	[Gantt bar from May to Jun 2015]																																						
252	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	21-05-15	04-02-16	192 days	[Gantt bar from May 2015 to Feb 2016]																																						
283	39/F - Main Roof slab	02-02-16	24-02-16	16 days	[Gantt bar from Feb to Feb 2016]																																						
284	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	20-02-16	13-06-16	79 days	[Gantt bar from Feb 2016 to Jun 2016]																																						
285	Parapet Wall	22-02-16	15-04-16	40 days	[Gantt bar from Feb to Apr 2016]																																						
286	Lift Machine Room	20-02-16	27-04-16	50 days	[Gantt bar from Feb to Apr 2016]																																						
287	Water Tank	20-02-16	13-06-16	79 days	[Gantt bar from Feb 2016 to Jun 2016]																																						
288	Generator Room	25-02-16	04-05-16	50 days	[Gantt bar from Feb to May 2016]																																						
289	Block 2	09-01-14	16-05-16	638 days	[Gantt bar spanning from Jan 2014 to May 2016]																																						
290	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days	[Gantt bar from Jan to Jun 2014]																																						
291	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days	[Gantt bar from Feb to May 2014]																																						
292	Water Test for Drainage Works	28-03-14	13-05-14	30 days	[Gantt bar from Mar to May 2014]																																						
293	Construction of Precast Water Tank	26-04-14	06-06-14	33 days	[Gantt bar from Apr to Jun 2014]																																						
294	Installation of P.C. Water Tank	27-08-14	06-09-14	10 days	[Gantt bar from Aug to Sep 2014]																																						
295	G/F - 1/F slab	29-05-14	13-09-14	75 days	[Gantt bar from May to Sep 2014]																																						
296	1/F - 2/F slab	03-09-14	07-11-14	52 days	[Gantt bar from Sep to Nov 2014]																																						
297	2/F - Level 22.10 (Transfer Structure)	06-11-14	06-02-15	76 days	[Gantt bar from Nov 2014 to Feb 2015]																																						
298	Level 22.10 - 3/F slab	27-01-15	25-02-15	21 days	[Gantt bar from Jan to Feb 2015]																																						
299	3/F to 4/F Slab	13-02-15	25-03-15	30 days	[Gantt bar from Feb to Mar 2015]																																						
300	4/F to 5/F Slab	17-03-15	13-04-15	20 days	[Gantt bar from Mar to Apr 2015]																																						
301	5/F to 6/F Slab	01-04-15	21-04-15	14 days	[Gantt bar from Apr to Apr 2015]																																						
302	6/F to 7/F Slab	18-04-15	02-05-15	12 days	[Gantt bar from Apr to May 2015]																																						
303	7/F to 8/F Slab	29-04-15	12-05-15	10 days	[Gantt bar from Apr to May 2015]																																						
304	8/F to 9/F Slab	13-05-15	28-05-15	10 days	[Gantt bar from May to Jun 2015]																																						
305	9/F to 10/F Slab	22-05-15	04-06-15	9 days	[Gantt bar from May to Jun 2015]																																						



Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014			2015			2016			2017					
					1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter		
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar
306	10/F to 37/F (27 Floors x 6 days cycle) details shown in 90 days programme	02-06-15	20-01-16	172 days															
334	37/F - Main Roof slab	16-01-16	18-02-16	25 days															
335	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	15-02-16	16-05-16	67 days															
336	Parapet Wall	16-02-16	08-04-16	40 days															
337	Lift Machine Room	15-02-16	05-05-16	60 days															
338	Water Tank	17-02-16	16-05-16	65 days															
339	Generator Room	19-02-16	11-05-16	60 days															
340	<b>Block 3</b>	09-01-14	18-06-16	660 days															
341	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days															
342	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days															
343	Water Test for Drainage Works	28-03-14	13-05-14	30 days															
344	Construction of Precast Water Tank	26-04-14	06-06-14	33 days															
345	Installation of P.C. Water Tank	28-08-14	08-09-14	10 days															
346	G/F - 1/F slab	31-05-14	15-09-14	74 days															
347	1/F - Level 16.30 (Transfer Structure)	02-09-14	30-12-14	96 days															
348	Level 16.30 - 2/F slab	17-12-14	24-01-15	30 days															
349	2/F to 3/F Slab	16-01-15	09-03-15	40 days															
350	3/F to 4/F Slab	06-03-15	28-03-15	20 days															
351	4/F to 5/F Slab	26-03-15	22-04-15	20 days															
352	5/F to 6/F Slab	20-04-15	04-05-15	12 days															
353	6/F to 7/F Slab	29-04-15	14-05-15	12 days															
354	7/F to 8/F Slab	12-05-15	29-05-15	12 days															
355	8/F to 9/F Slab	30-05-15	10-06-15	10 days															
356	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	08-06-15	20-02-16	190 days															
387	39/F - Main Roof slab	18-02-16	04-03-16	14 days															
388	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	02-03-16	18-06-16	75 days															
389	Parapet Wall	02-03-16	26-04-16	40 days															
390	Lift Machine Room	02-03-16	11-05-16	50 days															
391	Water Tank	02-03-16	18-06-16	75 days															
392	Generator Room	05-03-16	16-05-16	50 days															
393	<b>Block 4</b>	09-01-14	16-06-16	658 days															
394	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days															
395	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days															
396	Water Test for Drainage Works	28-03-14	13-05-14	30 days															
397	Construction of Precast Water Tank	26-04-14	06-06-14	33 days															
398	Installation of P.C. Water Tank	02-08-14	18-08-14	10 days															
399	G/F - 1/F slab	31-05-14	25-08-14	58 days															
400	1/F - Level 16.75 (Transfer Structure)	04-08-14	21-11-14	84 days															
401	Level 16.75 - 2/F slab	01-11-14	15-12-14	38 days															
402	2/F to 3/F Slab	08-12-14	31-01-15	44 days															
403	3/F to 4/F Slab	22-01-15	27-02-15	27 days															
404	4/F to 5/F Slab	18-02-15	24-03-15	25 days															
405	5/F to 6/F Slab	21-03-15	17-04-15	20 days															
406	6/F to 7/F Slab	15-04-15	02-05-15	15 days															
407	7/F to 8/F Slab	29-04-15	18-05-15	15 days															
408	8/F to 9/F Slab	14-05-15	02-06-15	13 days															
409	9/F to 40/F (31 Floors x 6 days cycle) details shown in 90 days programme	30-05-15	20-02-16	197 days															
441	40/F - Main Roof slab	18-02-16	05-03-16	15 days															
442	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	03-03-16	16-06-16	72 days															
443	Parapet Wall	03-03-16	27-04-16	40 days															
444	Lift Machine Room	03-03-16	12-05-16	50 days															
445	Water Tank	03-03-16	16-06-16	72 days															



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

ID	Task Name	Start	Finish	Duration	2014					2015					2016					2017			
					1st Quarter			3rd Quarter		1st Quarter			3rd Quarter		1st Quarter			3rd Quarter		1st Quarter			
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov
446	Generator Room	07-03-16	17-05-16	50 days																			
447	<b>Link Decks</b>	15-07-15	31-05-17	504 days																			
448	Submit SSP	15-07-15	19-07-15	4 edays																			
449	Submit & Approve Method Statement for Footing Construction	24-07-15	04-08-15	10 days																			
450	Apply for CM's Permission for excavation & footing	05-08-15	04-09-15	22 days																			
451	<b>Link Decks No. 1</b>	09-09-16	31-05-17	200 days																			
452	Excavation for the footing	09-09-16	29-09-16	17 days																			
453	Footing construction	30-09-16	18-10-16	14 days																			
454	Link Decks Structure Construction	16-01-17	28-02-17	32 days																			
455	Link Decks Finishing Works	01-03-17	31-05-17	65 days																			
456	<b>Link Decks No. 2 and 3</b>	12-08-16	31-05-17	221 days																			
457	Link Decks Column	12-08-16	17-09-16	28 days																			
458	Link Decks Structure Construction	19-09-16	30-11-16	61 days																			
459	Link Decks Finishing Works	02-01-17	31-05-17	107 days																			
460	<b>Link Decks No.4</b>	29-09-16	31-05-17	184 days																			
461	Link Decks Structure Construction	29-09-16	30-11-16	52 days																			
462	Link Decks Finishing Works	16-01-17	31-05-17	97 days																			
463	<b>Link Decks No.5</b>	14-07-16	31-05-17	241 days																			
464	Link Decks Structure Construction	14-07-16	19-08-16	24 days																			
465	Link Decks Finishing Works	16-01-17	31-05-17	97 days																			
466	<b>Link Decks No. 6</b>	05-04-16	31-05-17	308 days																			
467	Excavation for the footing	05-04-16	12-04-16	7 days																			
468	Footing construction	14-04-16	27-04-16	11 days																			
469	Link Decks Structure Construction	27-04-16	24-06-16	40 days																			
470	Link Decks Finishing Works	14-12-16	31-05-17	121 days																			
471	<b>Link Decks No. 7</b>	30-06-16	31-05-17	249 days																			
472	Excavation for the footing	30-06-16	11-07-16	7 days																			
473	Footing construction	12-07-16	26-07-16	12 days																			
474	Link Decks Structure Construction	18-10-16	15-12-16	51 days																			
475	Link Decks Finishing Works	16-01-17	31-05-17	97 days																			
476	<b>Link Decks No. 8</b>	21-07-16	31-05-17	235 days																			
477	Excavation for the footing	21-07-16	28-07-16	7 days																			
478	Footing construction	29-07-16	20-08-16	12 days																			
479	Link Decks Structure Construction	19-12-16	28-02-17	52 days																			
480	Link Decks Finishing Works	01-03-17	31-05-17	65 days																			
481	<b>Finishing Works</b>	28-05-15	26-05-17	535 days																			
482	Sample Wing @ Blk 1	28-05-15	21-08-15	60 days																			
483	Sample Wing @ Blk 4	03-06-15	27-08-15	60 days																			
484	<b>Internal finishes for Flat Unit (Detailed Programmed to be Submitted Separately)</b>	28-05-15	02-05-17	517 days																			
485	Fair Face Formation	28-05-15	16-05-16	260 days																			
486	Door Subframe	18-06-15	13-06-16	260 days																			
487	Drywall	29-05-15	17-06-16	280 days																			
488	Window Frame	28-08-15	09-07-16	230 days																			
489	Door Kerb	24-09-15	04-07-16	205 days																			
490	Waterproofing (Kitchen)	05-10-15	20-07-16	211 days																			
491	Floor Screeding	10-10-15	08-08-16	221 days																			
492	Wall Tiling (Including Making Good of Concrete Surface)	10-11-15	06-09-16	215 days																			
493	Floor Tiling	10-12-15	22-09-16	203 days																			
494	Skim coat and Painting (except final paint)	10-10-15	14-04-17	410 days																			
495	Final Paint	12-08-16	02-05-17	200 days																			
496	P & D Pipework	24-11-15	17-03-17	353 days																			
497	Door Set & Ironmongeries	16-07-16	29-03-17	195 days																			



















Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014												2015												2016												2017											
					1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter																							
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May																				
706	Make Available water tanks & pump rooms to NSC	06-02-17	06-02-17	0 days																																																
707	FS installation & water pump installation	06-02-17	03-03-17	20 days																																																
708	Testing & commissioning (EL, FS, P&D)	06-03-17	20-03-17	11 days																																																
709	<b>Wet Market</b>	<b>09-11-15</b>	<b>15-06-17</b>	<b>429 days</b>																																																
710	<b>RC structure (Detailed Programmed to be Submitted Separately)</b>	<b>09-11-15</b>	<b>23-01-17</b>	<b>327 days</b>																																																
711	Excavation for the footing	09-11-15	01-12-15	20 days																																																
712	<b>Zone 1</b>	<b>19-11-15</b>	<b>11-11-16</b>	<b>261 days</b>																																																
713	ELSW & Footing construction	19-11-15	30-12-15	33 days																																																
714	Footing to G/F beam and slab construction and UG Drainage Works	31-12-15	09-05-16	94 days																																																
715	G/F - M/F construction	11-05-16	18-07-16	45 days																																																
716	M/F - roof construction	18-07-16	06-10-16	60 days																																																
717	Planter wall & other RC features on roof	07-10-16	11-11-16	30 days																																																
718	<b>Zone 2</b>	<b>05-12-15</b>	<b>21-11-16</b>	<b>255 days</b>																																																
719	ELSW & Footing construction	05-12-15	16-01-16	30 days																																																
720	Footing to G/F beam and slab construction and UG Drainage Works	18-01-16	19-05-16	90 days																																																
721	G/F - roof construction	20-05-16	27-09-16	90 days																																																
722	Planter wall & other RC features on roof	28-09-16	21-11-16	45 days																																																
723	<b>Zone 3</b>	<b>22-12-15</b>	<b>29-12-16</b>	<b>273 days</b>																																																
724	ELSW & Footing construction	22-12-15	29-01-16	28 days																																																
725	Footing to G/F beam and slab construction and UG Drainage Works	30-01-16	20-05-16	80 days																																																
726	G/F - roof construction	23-05-16	28-09-16	90 days																																																
727	Planter wall & other RC features on roof	05-11-16	29-12-16	45 days																																																
728	<b>Zone 4 (After Removal of Tower Crane for Block 2)</b>	<b>18-06-16</b>	<b>23-01-17</b>	<b>166 days</b>																																																
729	ELSW & Footing construction	18-06-16	09-07-16	14 days																																																
730	Footing to G/F beam and slab construction and UG Drainage Works	11-07-16	22-08-16	28 days																																																
731	G/F - M/F construction	23-08-16	30-09-16	33 days																																																
732	M/F - roof construction	30-09-16	09-11-16	33 days																																																
733	Planter wall & other RC features on roof	26-11-16	23-01-17	45 days																																																
734	F.S. Water Tank	26-11-16	02-01-17	30 days																																																
735	<b>Finishing Works</b>	<b>25-10-16</b>	<b>15-06-17</b>	<b>175 days</b>																																																
736	Roof Finishing Works	13-01-17	15-06-17	109 days																																																
737	Internal Finishing Works	25-10-16	27-04-17	141 days																																																
738	External Wall Finishing Works	09-01-17	15-06-17	113 days																																																
739	<b>Building services installation</b>	<b>07-10-16</b>	<b>07-04-17</b>	<b>140 days</b>																																																
740	Builder's works & BS installation in G/F TX Rm + Switch Rm	25-10-16	01-11-16	7 days																																																
741	Clear 1.5m area on external U/G cable	01-11-16	01-11-16	0 days																																																
742	Make available vehicular access to Tx Rm	01-11-16	01-11-16	0 days																																																
743	Handover Main Switch Room to NSC	01-11-16	01-11-16	0 days																																																
744	Handover TX Rm to CLP	01-11-16	01-11-16	0 days																																																
745	CLP installation in TX Rm. & lead-in cables wiring	01-11-16	16-12-16	45 edays																																																
746	Power energisation to Wet Market by CLP	16-12-16	03-01-17	14 days																																																
747	Builder's works & BS installation in M/F Genset Rm	01-11-16	16-11-16	14 days																																																
748	Handover Genset Rm to NSC	16-11-16	16-11-16	0 days																																																
749	Genset installation by NSC	17-11-16	21-12-16	30 days																																																
750	Builder's works & BS installation in M/F FS Pump Rm + G/F FS Control Rm	23-01-17	09-02-17	14 days																																																
751	Handover M/F FS Pump Rm + G/F FS Control Rm to NSC	09-02-17	09-02-17	0 days																																																
752	FS Installation & Water Pump Installation	10-02-17	06-04-17	40 days																																																
753	Handover Chiller Plant Room to NSC	07-10-16	07-10-16	0 days																																																
754	Handover AHU Room and Fan Room to NSC	05-12-16	05-12-16	0 days																																																
755	AHU System Installation	07-12-16	07-04-17	90 days																																																
756	<b>Section 6 - Fit-out to Wet Market</b>	<b>17-12-14</b>	<b>29-06-17</b>	<b>679 days</b>																																																
757	Confirmation for the Scope for Fitting-out of Wet Market	17-12-14	17-12-14	0 days																																																



Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014			2015			2016			2017					
					1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter		
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar
758	Issue Drawings for Fitting-out of Wet Market (SI - A053)	17-12-14	17-12-14	0 days															
759	Wet & Dry Stall Installation	29-10-16	28-04-17	138 days															
760	GMS Bulkhead & Signage Installation	21-12-16	31-05-17	115 days															
761	Associated Building Services Installation	25-11-16	10-02-17	60 days															
762	Inspection & Handover	01-06-17	29-06-17	21 days															
763	<b>Section 7 - Estate Road, EVA, Carriageway &amp; Basement Car park</b>	<b>25-08-14</b>	<b>29-06-17</b>	<b>772 days</b>															
764	Basement car park	25-08-14	29-06-17	772 days															
765	RC structure	25-08-14	17-01-17	656 days															
766	Pipe pile installation & grout curtain	25-08-14	21-01-15	120 days															
767	Pumping test and report submission	22-01-15	07-02-15	15 days															
768	Submit as-built record to CM for Approval	09-02-15	11-03-15	22 days															
769	Submit ICU14 & Obtain CM's Approval for Bulk Excavation Work	11-03-15	02-04-15	22 edays															
770	ELS for the footing/Plate Load Test	07-04-15	07-09-15	109 days															
771	Submit as-built ELS record to CM	22-08-15	07-09-15	12 days															
772	Obtain consent for footing construction	05-08-15	07-09-15	24 days															
773	Footing construction	08-09-15	27-11-15	65 days															
774	Footing - G/F construction	13-11-15	25-05-16	143 days															
775	Dismantling of ELSW	14-10-15	01-06-16	173 days															
776	Waterproofing / Underground Drainage / On Grade Slab	02-06-16	16-01-17	170 days															
777	Link Bridge	22-11-16	17-01-17	45 days															
778	Green Platform	22-11-16	31-12-16	33 days															
779	<b>Finishes &amp; building services</b>	<b>31-12-16</b>	<b>29-06-17</b>	<b>129 days</b>															
780	Car park wall & ceiling finishes	17-01-17	28-04-17	74 days															
781	Building services & plant rooms installation	31-12-16	23-03-17	60 days															
782	Car park floor finishes	03-04-17	31-05-17	42 days															
783	Elevated walkway, bicycle parking & planter finishes	03-04-17	29-06-17	63 days															
784	Painting works & signage	03-04-17	20-06-17	56 days															
785	<b>Building services installation</b>	<b>26-01-17</b>	<b>11-05-17</b>	<b>75 days</b>															
786	Builder's works & BS installation in Fan Rm,FS Pump rm,Sump Pit Rm & Switch Rm	26-01-17	22-02-17	20 days															
787	Make Available the Fan Room to NSC	22-02-17	22-02-17	0 days															
788	Air Exhaust System Installation	23-02-17	26-04-17	45 days															
789	Make Available the Pump & Sump Pit Room to NSC	08-03-17	08-03-17	0 days															
790	FS pipe & water pump installation	09-03-17	11-05-17	45 days															
791	Make Available the Switch Room to NSC	22-02-17	22-02-17	0 days															
792	E & M installation	23-02-17	26-04-17	45 days															
793	<b>Estate Road, EVA &amp; Carriageway</b>	<b>10-04-15</b>	<b>29-06-17</b>	<b>592 days</b>															
794	Issuance of U/G drainage & Utilities/run-in Connections location to Road L16	10-04-15	10-04-15	0 days															
795	Make Available to Electrical sub-contractor the underground cable ducts and draw pits	02-03-17	02-03-17	0 days															
796	Make available to the Town Gas Co. the area along the external underground route	01-04-17	01-04-17	0 days															
797	Make available to the FTNS the area along the external underground route	31-01-17	31-01-17	0 days															
798	Underground Drainage & Utilities Installation (Details to be submitted separately)	15-10-15	02-05-17	417 days															
799	EVA	04-01-17	26-04-17	81 days															
800	Paving works	03-05-17	23-06-17	38 days															
801	External furniture	03-05-17	29-06-17	42 days															
802	Signage & Road marking	03-04-17	29-06-17	63 days															
803	CCTV for U/G Drainage System	03-05-17	26-06-17	39 days															
804	<b>Section 8 - Temporary Sewage Pumping Station including Rising Mains</b>	<b>25-11-14</b>	<b>22-12-16</b>	<b>564 days</b>															
805	Submit the EO to CM and EPD Approval	25-11-14	25-11-14	0 days															
806	Rising Mains for Sewage Pumping	15-08-16	06-12-16	92 days															
807	Plant & M&E Installation of the TSPS (4 months)	16-06-16	13-10-16	86 days															
808	Testing & Commissioning of the TSPS (2 months)	14-10-16	22-12-16	60 days															
809	<b>Section 9 - Remaining Works</b>	<b>20-08-15</b>	<b>29-06-17</b>	<b>501 days</b>															



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

ID	Task Name	Start	Finish	Duration	2014												2015												2016												2017											
					1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter				3rd Quarter				1st Quarter																							
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May																				
810	<b>Last Manhole Connections (Details to be Submitted Separately)</b>	16-11-15	23-05-17	406 days																																																
811	Construction of Last Manholes (Tally w/ the Progress of Civil Works Contractor)	16-11-15	12-12-16	290 days																																																
812	Technical Audit by DSD	03-04-17	05-05-17	24 days																																																
813	Issuance of Acceptance Letter	23-05-17	23-05-17	0 days																																																
814	<b>Under Ground Pumping and F.S. Pipe Works (Details to be Submitted Separately)</b>	<b>07-07-16</b>	<b>31-03-17</b>	<b>204 days</b>																																																
815	Water Submains and Irrigation Water Pipe	07-07-16	31-03-17	204 days																																																
816	F.S. water pipe and sheet Fire Hydrant	24-09-16	31-03-17	146 days																																																
817	Master Water Meter Room	20-08-15	31-03-16	170 days																																																
818	<b>Amphitheatre/Open Plaza Construction (Details to be Submitted Separately)</b>	<b>06-08-16</b>	<b>09-06-17</b>	<b>230 days</b>																																																
819	ELSW and Plate Load Test	06-08-16	27-08-16	13 days																																																
820	Obtain Consent for Footing Construction	27-08-16	10-09-16	14 edays																																																
821	Construction of Footing for Amphitheatre	29-09-16	04-11-16	30 days																																																
822	Construction of Amphitheatre and Open Plaza	14-11-16	27-01-17	60 days																																																
823	Finishing Works for Amphitheatre	15-02-17	09-06-17	82 days																																																
824	Planter Construction (including planter finish)	23-02-17	12-06-17	77 days																																																
825	Pergola Construction	23-03-17	12-06-17	57 days																																																
826	Perimeter Fence Wall & Covered Walkway Construction	23-03-17	29-06-17	70 days																																																
827	<b>Final Inspection Processes</b>	<b>30-05-16</b>	<b>30-06-17</b>	<b>291 days</b>																																																
828	<b>Inspection by WSD</b>	<b>02-01-17</b>	<b>18-05-17</b>	<b>98 days</b>																																																
829	Submit Form WWO 46 Part IV for Plumbing	02-01-17	31-03-17	65 days																																																
830	WSD inspection for Plumbing	03-01-17	13-04-17	73 days																																																
831	Water Samplig Test	14-04-17	12-05-17	20 days																																																
832	Obtain water cert for Plumbing	18-05-17	18-05-17	0 days																																																
833	Submit Form WWO 46 Part IV for FS	15-02-17	15-02-17	0 days																																																
834	WSD inspection for FS	16-02-17	09-03-17	16 days																																																
835	Obtain water cert for FS	20-03-17	20-03-17	0 days																																																
836	<b>Inspection by FSD</b>	<b>07-04-17</b>	<b>30-05-17</b>	<b>37 days</b>																																																
837	FS integration test (EL+FS+P&D)	07-04-17	27-04-17	15 days																																																
838	Submission of Form 314 & 501	27-04-17	27-04-17	0 days																																																
839	FSD Inspection	11-05-17	19-05-17	7 days																																																
840	Re-inspection	22-05-17	29-05-17	6 days																																																
841	Issuance of FS Cert	30-05-17	30-05-17	0 days																																																
842	<b>ICU Submission of OP</b>	<b>18-04-17</b>	<b>31-05-17</b>	<b>30 days</b>																																																
843	Latest submission to CM to prepare Record Plan	18-04-17	18-04-17	0 days																																																
844	Latest submission of Material+EMSD+FS+Water Cert for ICU13 Submission	31-05-17	31-05-17	0 days																																																
845	Submit Form ICU13 to CM Processing OP Application	30-06-17	30-06-17	0 days																																																
846	<b>Project Inspection and Handover</b>	<b>30-05-16</b>	<b>30-06-17</b>	<b>291 days</b>																																																
847	Water Tightness Test for VPBs	30-05-16	31-03-17	227 days																																																
848	Water Tightness Test for Kitchen and Refuse Storage Room	09-09-16	10-05-17	185 days																																																
849	Flat - to - flat Inspection and Handover	12-11-16	02-05-17	127 days																																																
850	Defect Rectification Works and Re-inspection	18-01-17	29-05-17	93 days																																																
851	Common Areas and External Area Inspection	03-05-17	30-05-17	20 days																																																
852	Finial Inspection of External Works	01-06-17	30-06-17	22 days																																																





**HSIN新昌 CHONG** Construction of Public Rental Housing Development at Tung Chung Area 56 (Contract No.: 20120731)

Date: 29.11.2016

**Labour Resources Plan (Revision 1)**

Year	2016								2017																							
	12				1				2				3				4				5				6							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Labour																																
Drainlayer	40	40	40	40	35	35	35	35	0	25	25	25	15	15	15	15	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0
Rebar Fixer	5	5	5	5	5	5	5	5	0	5	5	5	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Carpenter	25	25	25	25	15	15	15	15	0	10	10	10	5	5	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Joiner (Doorset)	2	2	3	3	4	4	4	4	0	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	0	0	0	0
Gateset	0	0	0	2	2	2	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0
Plumber	32	32	32	32	30	30	30	30	0	25	25	25	25	25	25	25	20	20	20	20	15	15	15	5	5	5	0	0	5	5	0	0
Glazier	0	0	2	4	4	4	4	4	0	4	4	4	4	4	4	4	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0
Painter (Emulsion)	3	3	10	20	20	20	20	20	0	12	12	12	7	7	7	7	5	5	5	5	4	4	4	2	0	0	0	0	0	0	0	0
Painter (Acrylic)	1	1	10	20	20	20	20	20	0	15	15	15	10	10	10	10	5	5	5	5	3	3	1	1	0	0	0	0	0	0	0	0
Metal Worker	15	15	15	15	12	12	12	12	0	10	10	10	8	8	8	8	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	0
Earthworker	8	8	8	8	8	8	8	8	0	8	8	8	8	8	8	8	10	10	10	10	2	2	2	2	2	2	2	2	2	2	2	0
Paver	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	8	8	8	8	10	10	10	10	5	5	5	5	5	5	5	5
External Fair Face	7	7	7	10	10	10	10	10	0	10	5	5	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0

Lunar New Year



## **APPENDIX D**

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### Waste Flow Table

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

Month	Estimated Annual Quantities of Inert C&D Materials (in '000 Kg)					Estimated Quantities of C&D Waste					
	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.690	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.880	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.720	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.580	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.020	0.000
<b>Grand Total</b>	<b>2878.880</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>2878.880</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>154.170</b>	<b>0.000</b>

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**

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### 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 Authority	6 Jun 2013	N/A	TSPS Only	Active

### 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 (include TSPS)	13 Nov 2013	N/A

### Billing Account for Disposal of Construction Works

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

### 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 (include TSPS)	30 Jan 2014	31 Jan 2019

**Construction Noise Permit (CNP)**

<b>CNP Number</b>	<b>Area Coverage</b>	<b>Valid Since</b>	<b>Expiry Date</b>	<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**

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### **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
25th Reporting Month (1 Dec 2016 – 31 Dec 2016)	0	0	0
Cumulative Statistics (19 Nov 2014 – 31 Dec 2016)	0	0	0