

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

**Monthly Environmental Audit Report No. 25
(Covering the Period from 1 November 2016 to 30 November 2016)**

15 December 2016

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-fourth monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 to 30 November 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-fifth monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 to 30 November 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 ⁽¹⁾	9139 5367	
	Environmental Supervisor	Ryan Wong ⁽¹⁾	6198 0730	
Independent Checker (Atkins China Limited)	Independent Checker	Ray Cheng	2972 1614	2890 6343

Remark:

- (1) Mr. Siu Hong Wing would take up the role of the Environmental Manager from Ryan Wong, who would change his role to be an Environmental Supervisor, from 22 November 2016

1.3 Construction Programme

- 1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.
- 1.3.2 The holder of the Environmental Permit No. EP-452/2013, Hong Kong Housing Authority, had written a memo to the director of Environmental Protection Department on 30 November 2016 (Reference no.: HD (CE) 538/113/24) regarding status of the construction work of the Temporary Sewage Pumping Station. In summary:
- The inlet chamber, wet well and screen facilities are completed.
 - The deodorizer with forced ventilation equipment is completed.
 - The ventilation exhaust fan with acoustic louvers and silences are completed.
 - The standby pump is provided.
- 1.3.3 The roof greening and vertical greening works (Specific Condition 2.6) are implemented in March 2017.

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 1, 9, 15, 22 and 29 November 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
1 November 2016	No observation was made during this inspection.	Nil	Nil
9 November 2016	No observation was made during this inspection.	Nil	Nil
15 November 2016	No observation was made during this inspection.	Nil	Nil
22 November 2016	No observation was made during this inspection.	Nil	Nil
29 November 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. 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 December 2016 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 December 2016 is 6, 13, 20 and 27 December 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 1, 9, 15, 22 and 29 November 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 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

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

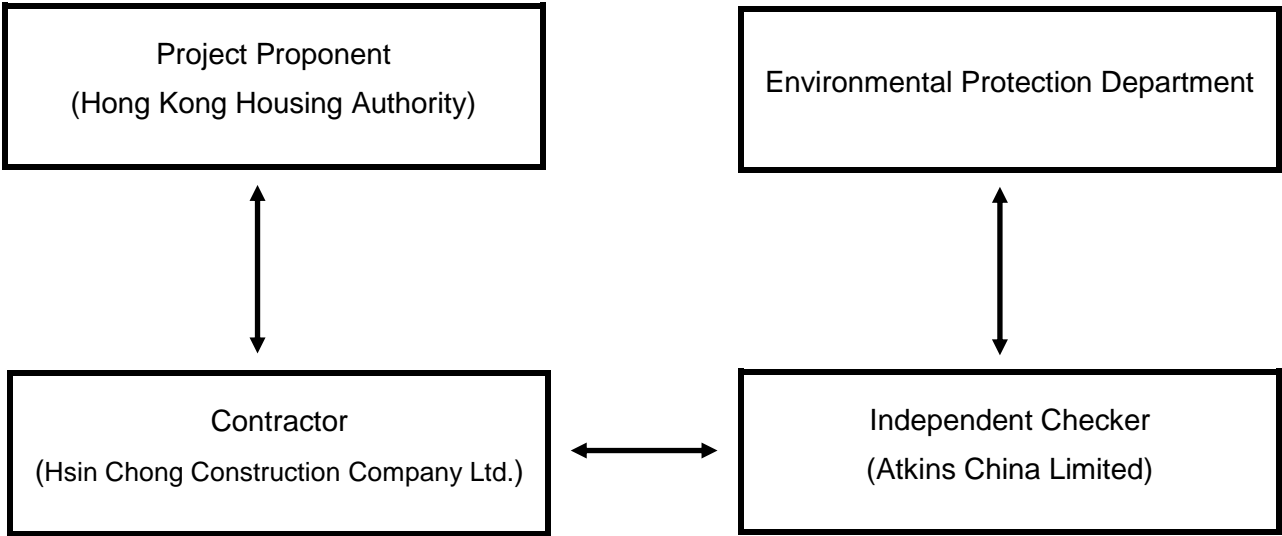
-  Temporary Sewage Pumping Station
-  Site Boundary of Tung Chung Area 56 Public Housing Development
-  500 m from Temporary Sewage Pumping Station



APPENDIX B

Project Organization for Environmental Works

Project Organization for Environmental Works





APPENDIX C

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 Qu							
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan
1	Construct Particulars	Dec 18 '13	Jan 27 '17	844 days																				
2	Contract commencement of all sections of works	Dec 18 '13	Dec 18 '13	0 days																				
3	Possession of Site	Dec 18 '13	Dec 18 '13	0 days																				
4	Original Project Completion Date	Aug 17 '16	Aug 17 '16	0 days																				
5	Extended Project Completion Date with Granted EOT (Up to 17 Aug 2016)	Nov 25 '16	Dec 22 '16	23 days																				
6	Section 1	Dec 19 '16	Dec 19 '16	0 days																				
7	Section 2	Dec 17 '16	Dec 17 '16	0 days																				
8	Section 3	Dec 21 '16	Dec 21 '16	0 days																				
9	Section 4	Dec 22 '16	Dec 22 '16	0 days																				
10	Section 5 - Section 9	Nov 25 '16	Nov 25 '16	0 days																				
11	Anticipated completion Date	Jan 27 '17	Jan 27 '17	0 days																				
12	Preliminaries	Dec 18 '13	Jan 2 '17	826 days																				
13	Site Establishment	Dec 18 '13	Jan 2 '17	826 days																				
14	Mobilization and Temp Power / Water Supply Setup	Dec 18 '13	Jan 17 '14	30 edays																				
15	Installation of Temp TxRm & Temp Elect Connection	Jan 2 '14	Apr 2 '14	90 edays																				
16	Setup Temporary Container Site Office	Dec 18 '13	Dec 25 '13	7 edays																				
17	Design Drawing and Calculation of Site Office to CM Approval	Dec 27 '13	Feb 22 '14	45 edays																				
18	Setup Site Office	Feb 22 '14	Apr 23 '14	60 edays																				
19	Setup of Curing Rooms & STC Office	Dec 18 '13	Jan 17 '14	30 edays																				
20	Preconstruction condition survey	Dec 18 '13	Jan 17 '14	30 edays																				
21	Submit Method Statement for New Covered Walk for CM Approval	Dec 24 '13	Feb 21 '14	45 edays																				
22	New Covered Walkway erection along the Northern Boundary	Feb 22 '14	Oct 25 '14	180 edays																				
23	Correctness Survey of Previous Works	Dec 18 '13	Dec 25 '13	7 edays																				
24	Submission & Approval of Method Statement of Tower Crane 1st Setup (Block 1, 3 & 4)	Dec 19 '13	Feb 17 '14	60 edays																				
25	Erection of Tower Cranes (Block 1, 3 and 4)	Feb 17 '14	Mar 29 '14	40 edays																				
26	Footing for Tower Cranes (Block 2)	Mar 25 '14	Apr 14 '14	13 edays																				
27	Erection of Tower Cranes (Block 2)	Apr 15 '14	May 5 '14	14 edays																				
28	Dismantling of Tower Cranes (Block 1)	Aug 19 '16	Aug 26 '16	7 edays																				
29	Dismantling of Tower Cranes (Block 2)	May 26 '16	Jun 3 '16	7 edays																				
30	Dismantling of Tower Cranes (Block 3)	Aug 27 '16	Sep 3 '16	7 edays																				
31	Dismantling of Tower Cranes (Block 4)	Sep 5 '16	Sep 12 '16	7 edays																				
32	1st Erection of Material Hoists Starting from Ground Level (Block 1)	Feb 14 '15	Mar 28 '15	32 edays																				
33	1st Erection of Material Hoists Starting from Ground Level (Block 2)	Mar 26 '15	Apr 15 '15	14 edays																				
34	1st Erection of Material Hoists Starting from Ground Level (Block 3)	Mar 30 '15	Apr 18 '15	14 edays																				
35	1st Erection of Material Hoists Starting from Ground Level (Block 4)	Feb 28 '15	Mar 30 '15	26 edays																				
36	Dismantling of Material Hoists (Block 1 - 4)	Sep 13 '16	Oct 19 '16	28 edays																				
37	1st Erection of Passenger Hoists (Block 1 - 4)	Apr 10 '15	Jul 4 '15	62 edays																				
38	Dismantling of Passenger Hoists	Nov 18 '16	Dec 3 '16	14 edays																				
39	1st Erection of Temporary Refuse Chutes (Block 1 - 4)	Mar 7 '15	Apr 15 '15	30 edays																				
40	Dismantling of Temporary Refuse Chutes	Aug 23 '16	Sep 23 '16	26 edays																				
41	Dismantle of Temp. Tx. Room (after notification from CLP)	Nov 24 '16	Dec 1 '16	7 edays																				
42	Latest dismantle of Scaffold for Annex Building	Dec 1 '16	Dec 19 '16	16 edays																				
43	Erection of Mid-way Gondola for Block 1, 3 and 4	Oct 8 '15	Oct 24 '15	14 edays																				
44	1st Erection of Gondola at Roof for Block 2	Feb 27 '16	May 20 '16	60 edays																				
45	Erection of Gondola at Roof for Block 1, 3 and 4 (High Zone)	Feb 6 '16	Mar 9 '16	24 edays																				
46	Dismantle of Gondola (Block 1 - 4)	Dec 15 '16	Jan 2 '17	14 edays																				
47	Relocation of Site Office	Aug 24 '15	Sep 10 '15	14 days																				
48	To 2/F of Block 2 for HA	Sep 1 '15	Sep 10 '15	7 edays																				
49	To 1/F of Block 2 for HCC	Aug 24 '15	Aug 31 '15	7 edays																				
50	Submission of Technical Document	Dec 18 '13	Aug 20 '16	716 days																				
222	Section 1 - Section 4 (Blk 1 to Blk 4)	Jan 9 '14	Jan 25 '17	827 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 Qu
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov
223	Timber Mock Up for the Kitchen & VPB & Approval	Feb 15 '14	Jul 31 '14	123 days													
224	Precast Element Fabrication	Mar 24 '14	Sep 26 '15	408 days													
225	Steel Mould Fabrication	Mar 24 '14	Nov 20 '14	177 days													
226	Fabrication of Mock-up Precast Elements	Jun 6 '14	Jul 5 '14	21 days													
227	Study Mock Up for the VPB & Trial Panel and Approval	Jul 7 '14	Nov 5 '14	90 days													
228	Mass Production of Precast Elements	Oct 30 '14	Sep 26 '15	250 days													
229	1st Delivery of P.C. Elements	Nov 1 '14	Nov 1 '14	0 days													
230	Latest issuance date of R.C. details R/F slab & UR/F	Jun 17 '14	Jun 17 '14	0 days													
231	RC Structure	Jan 9 '14	Jan 25 '17	827 days													
232	Domestic Blocks	Jan 9 '14	Jun 18 '16	660 days													
233	Block 1	Jan 9 '14	Jun 13 '16	655 days													
234	Pile Cap - G/F (Slab)	Jan 9 '14	Jun 10 '14	116 days													
235	Under Ground Drainage and Tanking	Feb 15 '14	May 7 '14	60 days													
236	Water Test for Drainage Works	Mar 28 '14	May 13 '14	30 days													
237	Construction of Precast Water Tank	Apr 26 '14	Jun 6 '14	33 days													
238	Installation of P.C. Water Tank	Sep 1 '14	Sep 13 '14	10 days													
239	G/F - 1/F slab	May 26 '14	Sep 19 '14	82 days													
240	1/F - Level 16.75 (Transfer Structure)	Aug 9 '14	Nov 13 '14	74 days													
241	Level 16.75 - 2/F slab	Oct 31 '14	Dec 3 '14	29 days													
242	2/F to 3/F Slab	Nov 26 '14	Jan 19 '15	43 days													
243	3/F to 4/F Slab	Jan 9 '15	Feb 13 '15	30 days													
244	4/F to 5/F Slab	Feb 4 '15	Mar 10 '15	25 days													
245	5/F to 6/F Slab	Mar 7 '15	Mar 30 '15	20 days													
246	6/F to 7/F Slab	Mar 27 '15	Apr 17 '15	15 days													
247	7/F to 8/F Slab	Apr 15 '15	Apr 30 '15	14 days													
248	8/F to 9/F Slab	May 6 '15	May 27 '15	14 days													
249	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	May 21 '15	Feb 4 '16	192 days													
280	39/F - Main Roof slab	Feb 2 '16	Feb 24 '16	16 days													
281	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	Feb 20 '16	Jun 13 '16	79 days													
282	Parapet Wall	Feb 22 '16	Apr 15 '16	40 days													
283	Lift Machine Room	Feb 20 '16	Apr 27 '16	50 days													
284	Water Tank	Feb 20 '16	Jun 13 '16	79 days													
285	Generator Room	Feb 25 '16	May 4 '16	50 days													
286	Block 2	Jan 9 '14	May 16 '16	638 days													
287	Pile Cap - G/F (Slab)	Jan 9 '14	Jun 10 '14	116 days													
288	Under Ground Drainage and Tanking	Feb 15 '14	May 7 '14	60 days													
289	Water Test for Drainage Works	Mar 28 '14	May 13 '14	30 days													
290	Construction of Precast Water Tank	Apr 26 '14	Jun 6 '14	33 days													
291	Installation of P.C. Water Tank	Aug 27 '14	Sep 6 '14	10 days													
292	G/F - 1/F slab	May 29 '14	Sep 13 '14	75 days													
293	1/F - 2/F slab	Sep 3 '14	Nov 7 '14	52 days													
294	2/F - Level 22.10 (Transfer Structure)	Nov 6 '14	Feb 6 '15	76 days													
295	Level 22.10 - 3/F slab	Jan 27 '15	Feb 25 '15	21 days													
296	3/F to 4/F Slab	Feb 13 '15	Mar 25 '15	30 days													
297	4/F to 5/F Slab	Mar 17 '15	Apr 13 '15	20 days													
298	5/F to 6/F Slab	Apr 1 '15	Apr 21 '15	14 days													
299	6/F to 7/F Slab	Apr 18 '15	May 2 '15	12 days													
300	7/F to 8/F Slab	Apr 29 '15	May 12 '15	10 days													
301	8/F to 9/F Slab	May 13 '15	May 28 '15	10 days													
302	9/F to 10/F Slab	May 22 '15	Jun 4 '15	9 days													
303	10/F to 37/F (27 Floors x 6 days cycle) details shown in 90 days programme	Jun 2 '15	Jan 20 '16	172 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 Qu		
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep
331	37/F - Main Roof slab	Jan 16 '16	Feb 18 '16	25 days																		
332	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	Feb 15 '16	May 16 '16	67 days																		
333	Parapet Wall	Feb 16 '16	Apr 8 '16	40 days																		
334	Lift Machine Room	Feb 15 '16	May 5 '16	60 days																		
335	Water Tank	Feb 17 '16	May 16 '16	65 days																		
336	Generator Room	Feb 19 '16	May 11 '16	60 days																		
337	Block 3	Jan 9 '14	Jun 18 '16	660 days																		
338	Pile Cap - G/F (Slab)	Jan 9 '14	Jun 10 '14	116 days																		
339	Under Ground Drainage and Tanking	Feb 15 '14	May 7 '14	60 days																		
340	Water Test for Drainage Works	Mar 28 '14	May 13 '14	30 days																		
341	Construction of Precast Water Tank	Apr 26 '14	Jun 6 '14	33 days																		
342	Installation of P.C. Water Tank	Aug 28 '14	Sep 8 '14	10 days																		
343	G/F - 1/F slab	May 31 '14	Sep 15 '14	74 days																		
344	1/F - Level 16.30 (Transfer Structure)	Sep 2 '14	Dec 30 '14	96 days																		
345	Level 16.30 - 2/F slab	Dec 17 '14	Jan 24 '15	30 days																		
346	2/F to 3/F Slab	Jan 16 '15	Mar 9 '15	40 days																		
347	3/F to 4/F Slab	Mar 6 '15	Mar 28 '15	20 days																		
348	4/F to 5/F Slab	Mar 26 '15	Apr 22 '15	20 days																		
349	5/F to 6/F Slab	Apr 20 '15	May 4 '15	12 days																		
350	6/F to 7/F Slab	Apr 29 '15	May 14 '15	12 days																		
351	7/F to 8/F Slab	May 12 '15	May 29 '15	12 days																		
352	8/F to 9/F Slab	May 30 '15	Jun 10 '15	10 days																		
353	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	Jun 8 '15	Feb 20 '16	190 days																		
384	39/F - Main Roof slab	Feb 18 '16	Mar 4 '16	14 days																		
385	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	Mar 2 '16	Jun 18 '16	75 days																		
386	Parapet Wall	Mar 2 '16	Apr 26 '16	40 days																		
387	Lift Machine Room	Mar 2 '16	May 11 '16	50 days																		
388	Water Tank	Mar 2 '16	Jun 18 '16	75 days																		
389	Generator Room	Mar 5 '16	May 16 '16	50 days																		
390	Block 4	Jan 9 '14	Jun 16 '16	658 days																		
391	Pile Cap - G/F (Slab)	Jan 9 '14	Jun 10 '14	116 days																		
392	Under Ground Drainage and Tanking	Feb 15 '14	May 7 '14	60 days																		
393	Water Test for Drainage Works	Mar 28 '14	May 13 '14	30 days																		
394	Construction of Precast Water Tank	Apr 26 '14	Jun 6 '14	33 days																		
395	Installation of P.C. Water Tank	Aug 2 '14	Aug 18 '14	10 days																		
396	G/F - 1/F slab	May 31 '14	Aug 25 '14	58 days																		
397	1/F - Level 16.75 (Transfer Structure)	Aug 4 '14	Nov 21 '14	84 days																		
398	Level 16.75 - 2/F slab	Nov 1 '14	Dec 15 '14	38 days																		
399	2/F to 3/F Slab	Dec 8 '14	Jan 31 '15	44 days																		
400	3/F to 4/F Slab	Jan 22 '15	Feb 27 '15	27 days																		
401	4/F to 5/F Slab	Feb 18 '15	Mar 24 '15	25 days																		
402	5/F to 6/F Slab	Mar 21 '15	Apr 17 '15	20 days																		
403	6/F to 7/F Slab	Apr 15 '15	May 2 '15	15 days																		
404	7/F to 8/F Slab	Apr 29 '15	May 18 '15	15 days																		
405	8/F to 9/F Slab	May 14 '15	Jun 2 '15	13 days																		
406	9/F to 40/F (31 Floors x 6 days cycle) details shown in 90 days programme	May 30 '15	Feb 20 '16	197 days																		
438	40/F - Main Roof slab	Feb 18 '16	Mar 5 '16	15 days																		
439	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	Mar 3 '16	Jun 16 '16	72 days																		
440	Parapet Wall	Mar 3 '16	Apr 27 '16	40 days																		
441	Lift Machine Room	Mar 3 '16	May 12 '16	50 days																		
442	Water Tank	Mar 3 '16	Jun 16 '16	72 days																		

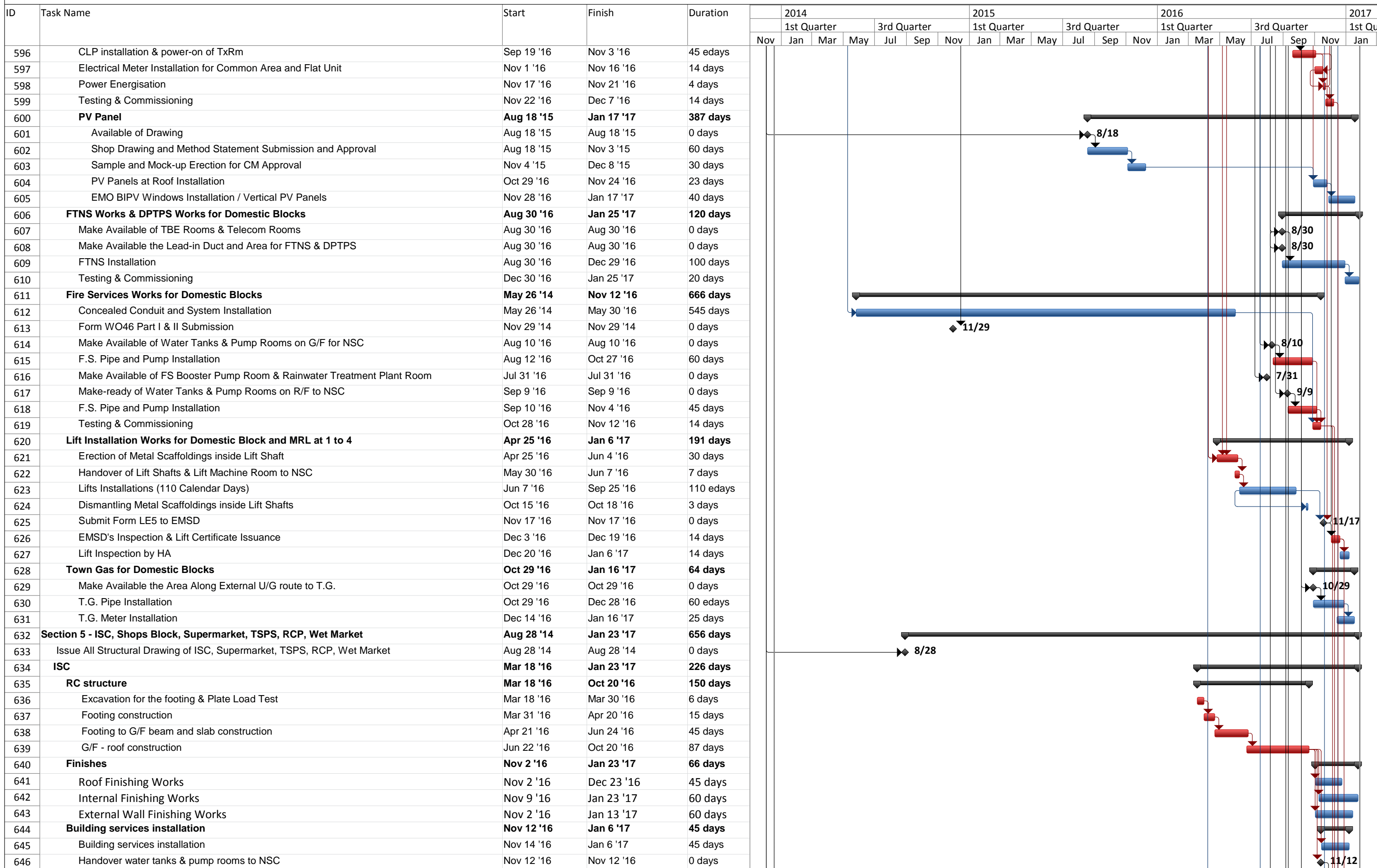
Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014				2015				2016				2017								
					1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Qu								
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan							
494	Door Set & Ironmongeries	Jul 16 '16	Oct 29 '16	80 days																					
495	Granite Threshold	Jul 27 '16	Nov 9 '16	80 days																					
496	Cooking Bench	Aug 13 '16	Nov 29 '16	87 days																					
497	Metal Gate Set	Jul 11 '16	Nov 17 '16	100 days																					
498	Sanitary Fittings	Aug 13 '16	Nov 21 '16	80 days																					
499	Mirror	Jul 22 '16	Nov 4 '16	80 days																					
500	Laundry Rack	Jul 22 '16	Nov 4 '16	80 days																					
501	Sealant Pointing	Jul 22 '16	Nov 21 '16	94 days																					
502	Internal finishes for Common Area and Service Rooms	Jun 18 '15	Dec 22 '16	408 days																					
503	Door Subframe	Jun 18 '15	Jun 13 '16	260 days																					
504	Blockwork	Jun 30 '15	Jun 21 '16	260 days																					
505	Metalwork	Oct 13 '15	Dec 12 '16	318 days																					
506	Door Kerb	Sep 10 '15	Apr 14 '16	164 days																					
507	Wall Backing & Fair Face Formation	Sep 1 '15	Jun 13 '16	209 days																					
508	Window Frame	Aug 27 '15	May 31 '16	207 days																					
509	Waterproofing	Oct 2 '15	Jun 17 '16	190 days																					
510	Floor Screeding	Oct 9 '15	Jun 23 '16	191 days																					
511	Wall Tiling	Feb 12 '16	Oct 11 '16	172 days																					
512	Floor Tiling	Dec 21 '15	Oct 18 '16	214 days																					
513	Skim Coat and Painting (Ceiling)	Sep 24 '15	Aug 19 '16	235 days																					
514	P & D Pipework	Oct 13 '15	Oct 31 '16	282 days																					
515	Spray Painting	Apr 25 '16	Oct 31 '16	135 days																					
516	Door Set & Ironmongeries	Jul 9 '16	Nov 10 '16	95 days																					
517	FRP Metal Door	Jul 29 '16	Nov 11 '16	80 days																					
518	Make Good and Spray Painting after Metal Door Installation	Nov 1 '16	Dec 22 '16	45 days																					
519	Signage	Jul 28 '16	Nov 26 '16	94 days																					
520	Sealant Pointing	Sep 10 '16	Dec 22 '16	86 days																					
521	Roof Finishes	Jun 25 '16	Dec 17 '16	134 days																					
522	Floor Screeding	Jun 25 '16	Aug 30 '16	43 days																					
523	Waterproofing	Aug 31 '16	Sep 30 '16	26 days																					
524	Water Tightness Test for Roof	Sep 30 '16	Oct 11 '16	8 days																					
525	Insulation and Screeding	Sep 3 '16	Oct 15 '16	34 days																					
526	Roof Tiling	Sep 3 '16	Oct 18 '16	36 days																					
527	Sealant Pointing	Oct 19 '16	Nov 15 '16	24 days																					
528	Metalwork	Oct 21 '16	Dec 17 '16	50 days																					
529	External Wall Finishes (Typical Floor)	Oct 26 '15	Dec 14 '16	310 days																					
530	Block 1, 3 & 4 - Low Zone (2/F - 20/F)	Oct 26 '15	Jul 14 '16	190 days																					
531	Fair Face Formation	Oct 26 '15	Jun 2 '16	165 days																					
532	Water Tightness Test for Tie Bolt Holes	Nov 12 '15	Jun 25 '16	165 days																					
533	Spray Paint	Jan 16 '16	Jul 5 '16	120 days																					
534	P & D Pipework	Feb 20 '16	Jul 14 '16	100 days																					
535	Block 1 & 2	Mar 18 '16	Dec 12 '16	195 days																					
536	Fair Face Formation	Mar 18 '16	Oct 22 '16	152 days																					
537	Water Tightness Test for Tie Bolt Holes	Apr 8 '16	Nov 15 '16	160 days																					
538	Spray Paint	Apr 16 '16	Nov 21 '16	159 days																					
539	P & D Pipework	Apr 25 '16	Nov 15 '16	148 days																					
540	Gas Pipework	May 18 '16	Nov 30 '16	145 days																					
541	Glazing Installation	Jun 18 '16	Nov 16 '16	113 days																					
542	Sealant Pointing	Jul 22 '16	Nov 30 '16	102 days																					
543	Water Tightness Test for Façade Joint and Windows	Jul 29 '16	Nov 23 '16	90 days																					
544	Finishing Works for External Wall after Material Hoist and Passenger Hoist Dismantling	Oct 19 '16	Dec 12 '16	47 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 Qu				
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul
545	Block 3 & 4	Apr 14 '16	Dec 14 '16	181 days																	
546	Fair Face Formation	Apr 14 '16	Nov 5 '16	148 days																	
547	Water Tightness Test for Tie Bolt Holes	Apr 29 '16	Nov 29 '16	156 days																	
548	Spray Paint	Jun 25 '16	Dec 5 '16	123 days																	
549	P & D Pipework	Jul 8 '16	Dec 9 '16	121 days																	
550	Gas Pipework	Jul 14 '16	Dec 14 '16	121 days																	
551	Glazing Installation	Jul 14 '16	Nov 30 '16	109 days																	
552	Sealant Pointing	Aug 8 '16	Dec 14 '16	102 days																	
553	Water Tightness Test for Façade Joint and Windows	Aug 19 '16	Dec 7 '16	92 days																	
554	Finishing Works for External Wall after Material Hoist and Passenger Hoist Dismantling	Oct 19 '16	Dec 12 '16	47 days																	
555	Internal Finishes (G/F - 1/F)	Apr 6 '16	Dec 12 '16	185 days																	
556	Door Subframe	Apr 6 '16	May 31 '16	40 days																	
557	Blockwork	Apr 26 '16	Jul 4 '16	45 days																	
558	Door Kerb	Jun 22 '16	Jul 11 '16	12 days																	
559	Waterproofing	Jul 5 '16	Nov 29 '16	114 days																	
560	Wall Backing & Fair Face Formation	Jul 25 '16	Nov 5 '16	79 days																	
561	Floor Screeding	Aug 13 '16	Nov 10 '16	71 days																	
562	Wall Tiling	Aug 31 '16	Nov 11 '16	60 days																	
563	Floor Tiling	Sep 15 '16	Nov 26 '16	60 days																	
564	Skim coat and Painting	Sep 23 '16	Dec 5 '16	61 days																	
565	Door Set & Ironmongeries	Sep 29 '16	Nov 16 '16	40 days																	
566	Mail Box and Guard counter	Sep 23 '16	Dec 9 '16	65 days																	
567	Play Surfaces and Play Equipment	Oct 31 '16	Dec 12 '16	37 days																	
568	External Finishes (G/F - 1/F)	Jun 15 '16	Dec 22 '16	147 days																	
569	Fair Face Formation	Jun 15 '16	Nov 10 '16	111 days																	
570	Steel and Metal Works	Jul 27 '16	Nov 21 '16	90 days																	
571	Metal Door Louver and Windows	Aug 23 '16	Nov 21 '16	75 days																	
572	Shutter (shopfront)	Oct 17 '16	Nov 25 '16	35 days																	
573	Glass Door and Glass Shop Front	Oct 31 '16	Dec 22 '16	46 days																	
574	Signbox (shopfront)	Nov 10 '16	Dec 20 '16	35 days																	
575	Spray Paint	Oct 26 '16	Dec 5 '16	35 days																	
576	Plumbing and Drainage Works	Nov 29 '14	Nov 29 '16	539 days																	
577	Form WWO 46 Part I & II Submission	Nov 29 '14	Nov 29 '14	0 days																	
578	Plumbing and Drainage Pipework Installation for Block 1-4	Aug 19 '15	Nov 11 '16	333 days																	
579	Installation of Water Meter for Flat Unit	Sep 30 '16	Nov 29 '16	50 days																	
580	Hydraulic Test of Plumbing System	Sep 30 '16	Nov 29 '16	50 days																	
581	Leakage Test of Drainage System	Nov 1 '16	Nov 29 '16	25 days																	
582	Building Services Installation	May 26 '14	Jan 25 '17	724 days																	
583	Electrical Works for Domestic Blocks	May 26 '14	Jan 17 '17	718 days																	
584	Concealed Conduit Installation & Other Conduit Works	May 26 '14	Jun 30 '16	565 days																	
585	Wiring Works	Sep 11 '15	Oct 17 '16	293 days																	
586	Handover of TX Room for NSCs	Apr 12 '16	Apr 12 '16	0 days																	
587	TX Room Inspection & Handover to CLP	May 27 '16	May 27 '16	0 days																	
588	Make Available Vehicular Access for TX Installation	May 9 '16	May 9 '16	0 days																	
589	Make Available 1.5m Wide Area for UG Cable Route to CLP	May 27 '16	May 27 '16	0 days																	
590	Handover of Main Switch Room for NSC	Mar 14 '15	Mar 14 '15	0 days																	
591	Handover of Low Zone Meter Rooms for NSC	Mar 29 '16	Mar 29 '16	0 days																	
592	Handover of High Zone Meter Rooms to NSC	May 27 '16	May 27 '16	0 days																	
593	Handover of Genset Room for NSC	Sep 21 '16	Sep 21 '16	0 days																	
594	Make Available Vehicular Access for Transportation of Equipment to Genset & Main Switch Rm	Jul 22 '16	Jul 22 '16	0 days																	
595	Make Available the U/G Cable Ducts and Draw Pits to NSC and CLP	Sep 19 '16	Sep 19 '16	0 days																	

Construction of Public Rental Housing Development at Tung Chung Area 56



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					
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	
					Gantt Chart (Visual representation of task durations across the timeline)																				
698	Make Available water tanks & pump rooms to NSC	Nov 11 '16	Nov 11 '16	0 days																					
699	FS installation & water pump installation	Nov 12 '16	Dec 19 '16	32 days																					
700	Testing & commissioning (EL, FS, P&D)	Dec 20 '16	Jan 6 '17	14 days																					
701	Wet Market	Nov 9 '15	Jan 20 '17	326 days																					
702	RC structure (Detailed Programmed to be Submitted Separately)	Nov 9 '15	Nov 16 '16	274 days																					
703	Excavation for the footing	Nov 9 '15	Dec 1 '15	20 days																					
704	Zone 1	Nov 19 '15	Nov 11 '16	261 days																					
705	ELSW & Footing construction	Nov 19 '15	Dec 30 '15	33 days																					
706	Footing to G/F beam and slab construction and UG Drainage Works	Dec 31 '15	May 9 '16	94 days																					
707	G/F - M/F construction	May 11 '16	Jul 18 '16	45 days																					
708	M/F - roof construction	Jul 18 '16	Oct 6 '16	60 days																					
709	Planter wall & other RC features on roof	Oct 7 '16	Nov 11 '16	30 days																					
710	Zone 2	Dec 5 '15	Oct 17 '16	225 days																					
711	ELSW & Footing construction	Dec 5 '15	Jan 16 '16	30 days																					
712	Footing to G/F beam and slab construction and UG Drainage Works	Jan 18 '16	May 19 '16	90 days																					
713	G/F - roof construction	May 20 '16	Aug 22 '16	60 days																					
714	Planter wall & other RC features on roof	Aug 23 '16	Oct 17 '16	45 days																					
715	Zone 3	Dec 22 '15	Oct 25 '16	219 days																					
716	ELSW & Footing construction	Dec 22 '15	Jan 29 '16	28 days																					
717	Footing to G/F beam and slab construction and UG Drainage Works	Jan 30 '16	May 20 '16	80 days																					
718	G/F - roof construction	May 23 '16	Aug 30 '16	66 days																					
719	Planter wall & other RC features on roof	Aug 31 '16	Oct 25 '16	45 days																					
720	Zone 4 (After Removal of Tower Crane for Block 2)	Jun 18 '16	Nov 16 '16	113 days																					
721	ELSW & Footing construction	Jun 18 '16	Jul 9 '16	14 days																					
722	Footing to G/F beam and slab construction and UG Drainage Works	Jul 11 '16	Aug 22 '16	28 days																					
723	G/F - M/F construction	Aug 23 '16	Sep 30 '16	33 days																					
724	M/F - roof construction	Sep 30 '16	Oct 31 '16	25 days																					
725	Planter wall & other RC features on roof	Nov 1 '16	Nov 16 '16	14 days																					
726	Finishing Works	Sep 24 '16	Jan 20 '17	96 days																					
727	Roof Finishing Works	Nov 8 '16	Jan 20 '17	60 days																					
728	Internal Finishing Works	Sep 24 '16	Jan 12 '17	90 days																					
729	External Wall Finishing Works	Nov 3 '16	Jan 16 '17	60 days																					
730	Building services installation	Aug 5 '16	Dec 28 '16	113 days																					
731	Builder's works & BS installation in G/F TX Rm + Switch Rm	Sep 30 '16	Oct 8 '16	7 days																					
732	Clear 1.5m area on external U/G cable	Oct 8 '16	Oct 8 '16	0 days																					
733	Make available vehicular access to Tx Rm	Oct 8 '16	Oct 8 '16	0 days																					
734	Handover Main Switch Room to NSC	Oct 8 '16	Oct 8 '16	0 days																					
735	Handover TX Rm to CLP	Oct 8 '16	Oct 8 '16	0 days																					
736	CLP installation in TX Rm. & lead-in cables wiring	Oct 8 '16	Nov 22 '16	45 edays																					
737	Power energisation to Wet Market by CLP	Nov 22 '16	Dec 7 '16	14 days																					
738	Builder's works & BS installation in M/F Genset Rm	Oct 19 '16	Oct 26 '16	7 days																					
739	Handover Genset Rm to NSC	Oct 26 '16	Oct 26 '16	0 days																					
740	Genset installation by NSC	Oct 27 '16	Nov 30 '16	30 days																					
741	Builder's works & BS installation in M/F FS Pump Rm + G/F FS Control Rm	Oct 17 '16	Oct 24 '16	7 days																					
742	Handover M/F FS Pump Rm + G/F FS Control Rm to NSC	Oct 24 '16	Oct 24 '16	0 days																					
743	FS Installation & Water Pump Installation	Oct 25 '16	Dec 9 '16	40 days																					
744	Handover Chiller Plant Room to NSC	Aug 5 '16	Aug 5 '16	0 days																					
745	Handover AHU Room and Fan Room to NSC	Oct 15 '16	Oct 15 '16	0 days																					
746	AHU System Installation	Oct 18 '16	Dec 28 '16	60 days																					
747	Section 6 - Fit-out to Wet Market	Dec 17 '14	Jan 23 '17	567 days																					
748	Confirmation for the Scope for Fitting-out of Wet Market	Dec 17 '14	Dec 17 '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		3rd Quarter		1st Qu	
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan
749	Issue Drawings for Fitting-out of Wet Market (SI - A053)	Dec 17 '14	Dec 17 '14	0 days														
750	Wet & Dry Stall Installation	Sep 29 '16	Jan 4 '17	80 days														
751	GMS Bulkhead & Signage Installation	Nov 23 '16	Jan 11 '17	40 days														
752	Associated Building Services Installation	Oct 28 '16	Jan 9 '17	60 days														
753	Inspection & Handover	Jan 10 '17	Jan 23 '17	10 days														
754	Section 7 - Estate Road, EVA, Carriageway & Basement Car park	Aug 25 '14	Jan 19 '17	658 days														
755	Basement car park	Aug 25 '14	Jan 5 '17	648 days														
756	RC structure	Aug 25 '14	Oct 8 '16	575 days														
757	Pipe pile installation & grout curtain	Aug 25 '14	Jan 21 '15	120 days														
758	Pumping test and report submission	Jan 22 '15	Feb 7 '15	15 days														
759	Submit as-built record to CM for Approval	Feb 9 '15	Mar 11 '15	22 days														
760	Submit ICU14 & Obtain CM's Approval for Bulk Excavation Work	Mar 11 '15	Apr 2 '15	22 edays														
761	ELS for the footing/Plate Load Test	Apr 7 '15	Sep 7 '15	109 days														
762	Submit as-built ELS record to CM	Aug 22 '15	Sep 7 '15	12 days														
763	Obtain consent for footing construction	Aug 5 '15	Sep 7 '15	24 days														
764	Footing construction	Sep 8 '15	Nov 27 '15	65 days														
765	Footing - G/F construction	Nov 13 '15	May 25 '16	143 days														
766	Dismantling of ELSW	Oct 14 '15	Jun 1 '16	173 days														
767	Waterproofing / Underground Drainage / On Grade Slab	Jun 2 '16	Oct 8 '16	90 days														
768	Finishes & building services	Sep 30 '16	Jan 5 '17	80 days														
769	Car park wall & ceiling finishes	Sep 30 '16	Nov 23 '16	45 days														
770	Building services & plant rooms installation	Nov 1 '16	Dec 22 '16	45 days														
771	Car park floor finishes	Oct 27 '16	Dec 23 '16	50 days														
772	Elevated walkway, bicycle parking & planter finishes	Nov 24 '16	Dec 30 '16	30 days														
773	Painting works & signage	Nov 19 '16	Jan 5 '17	39 days														
774	Building services installation	Sep 30 '16	Dec 10 '16	60 days														
775	Builder's works & BS installation in Fan Rm,FS Pump rm,Sump Pit Rm & Switch Rm	Sep 30 '16	Oct 19 '16	15 days														
776	Make Available the Fan Room to NSC	Oct 19 '16	Oct 19 '16	0 days														
777	Air Exhaust System Installation	Oct 20 '16	Dec 10 '16	45 days														
778	Make Available the Pump & Sump Pit Room to NSC	Oct 31 '16	Oct 31 '16	0 days														
779	FS pipe & water pump installation	Nov 1 '16	Nov 23 '16	20 days														
780	Make Available the Switch Room to NSC	Oct 19 '16	Oct 19 '16	0 days														
781	E & M installation	Oct 20 '16	Dec 10 '16	45 days														
782	Estate Road, EVA & Carriageway	Apr 10 '15	Jan 19 '17	478 days														
783	Issuance of U/G drainage & Utilities/run-in Connections location to Road L16	Apr 10 '15	Apr 10 '15	0 days														
784	Make Available to Electrical sub-contractor the underground cable ducts and draw pits	Sep 29 '16	Sep 29 '16	0 days														
785	Make available to the Town Gas Co. the area along the external underground route	Oct 29 '16	Oct 29 '16	0 days														
786	Make available to the FTNS the area along the external underground route	Aug 30 '16	Aug 30 '16	0 days														
787	Underground Drainage & Utilities Installation (Details to be submitted separately)	Oct 15 '15	Dec 5 '16	310 days														
788	EVA	Nov 16 '16	Dec 20 '16	30 days														
789	Paving works	Dec 6 '16	Jan 12 '17	30 days														
790	External furniture	Dec 12 '16	Jan 19 '17	30 days														
791	Signage & Road marking	Dec 12 '16	Jan 19 '17	30 days														
792	CCTV for U/G Drainage System	Dec 6 '16	Dec 30 '16	20 days														
793	Section 8 - Temporary Sewage Pumping Station including Rising Mains	Nov 25 '14	Nov 9 '16	527 days														
794	Submit the EO to CM and EPD Approval	Nov 25 '14	Nov 25 '14	0 days														
795	Rising Mains for Sewage Pumping	May 30 '16	Oct 5 '16	90 days														
796	Plant & M&E Installation of the TSPS (4 months)	May 13 '16	Sep 10 '16	120 edays														
797	Testing & Commissioning of the TSPS (2 months)	Sep 10 '16	Nov 9 '16	60 edays														
798	Section 9 - Remaining Works	Aug 20 '15	Dec 22 '16	367 days														
799	Last Manhole Connections (Details to be Submitted Separately)	Nov 16 '15	Dec 19 '16	296 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 Qu												
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan																	
					[Gantt Chart Area]																																				
800	Construction of Last Manholes (Tally w/ the Progress of Civil Works Contractor)	Nov 16 '15	Aug 25 '16	200 days																																					
801	Technical Audit by DSD	Nov 8 '16	Dec 5 '16	24 days																																					
802	Issuance of Acceptance Letter	Dec 19 '16	Dec 19 '16	0 days																																					
803	Under Ground Pumping and F.S. Pipe Works (Details to be Submitted Separately)	Apr 21 '16	Nov 29 '16	163 days																																					
804	Water Submains and Irrigation Water Pipe	Apr 21 '16	Nov 29 '16	163 days																																					
805	F.S. water pipe and sheet Fire Hydrant	Jul 18 '16	Nov 11 '16	90 days																																					
806	Master Water Meter Room	Aug 20 '15	May 12 '16	200 days																																					
807	Amphitheatre/Open Plaza Construction (Details to be Submitted Separately)	Aug 6 '16	Dec 22 '16	110 days																																					
808	ELSW and Plate Load Test	Aug 6 '16	Aug 27 '16	13 days																																					
809	Obtain Consent for Footing Construction	Aug 27 '16	Sep 10 '16	14 edays																																					
810	Construction of Footing for Amphitheatre	Sep 29 '16	Nov 4 '16	30 days																																					
811	Construction of Amphitheatre and Open Plaza	Nov 7 '16	Dec 22 '16	40 days																																					
812	Planter Construction (including planter finish)	Oct 26 '16	Dec 22 '16	50 days																																					
813	Pergola Construction	Nov 18 '16	Dec 22 '16	30 days																																					
814	Perimeter Fence Wall & Covered Walkway Construction	Nov 18 '16	Dec 22 '16	30 days																																					
815	Final Inspection Processes	May 30 '16	Jan 27 '17	182 days																																					
816	Inspection by WSD	Nov 12 '16	Dec 15 '16	28 days																																					
817	Submit Form WWO 46 Part IV for Plumbing	Nov 12 '16	Nov 12 '16	0 days																																					
818	WSD inspection for Plumbing	Nov 14 '16	Dec 7 '16	21 days																																					
819	Obtain water cert for Plumbing	Dec 15 '16	Dec 15 '16	0 days																																					
820	Submit Form WWO 46 Part IV for FS	Nov 12 '16	Nov 12 '16	0 days																																					
821	WSD inspection for FS	Nov 14 '16	Dec 1 '16	16 days																																					
822	Obtain water cert for FS	Dec 9 '16	Dec 9 '16	0 days																																					
823	Inspection by FSD	Dec 10 '16	Jan 27 '17	37 days																																					
824	FS integration test (EL+FS+P&D)	Dec 10 '16	Dec 20 '16	9 days																																					
825	Submission of Form 314 & 501	Dec 21 '16	Dec 21 '16	0 days																																					
826	FSD Inspection	Jan 10 '17	Jan 18 '17	7 days																																					
827	Re-inspection	Jan 19 '17	Jan 26 '17	6 days																																					
828	Issuance of FS Cert	Jan 27 '17	Jan 27 '17	0 days																																					
829	ICU Submission of OP	Dec 17 '16	Jan 27 '17	30 days																																					
830	Latest submission to CM to prepare Record Plan	Dec 17 '16	Dec 17 '16	0 days																																					
831	Latest submission of Material+EMSD+FS+Water Cert for ICU13 Submission	Jan 27 '17	Jan 27 '17	0 days																																					
832	Submit Form ICU13 to CM Processing OP Application	Jan 27 '17	Jan 27 '17	0 days																																					
833	Project Inspection and Handover	May 30 '16	Jan 27 '17	182 days																																					
834	Water Tightness Test for VPBs	May 30 '16	Nov 22 '16	130 days																																					
835	Water Tightness Test for Kitchen and Refuse Storage Room	Sep 9 '16	Nov 22 '16	61 days																																					
836	Common Areas and External Area Inspection	Nov 30 '16	Jan 5 '17	30 days																																					
837	Flat - to - flat Inspection and Handover	Sep 27 '16	Dec 19 '16	70 days																																					
838	Defect Rectification Works and Re-inspection	Nov 30 '16	Jan 27 '17	46 days																																					



APPENDIX D

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											
Grand Total	2878.880	0.000	0.000	0.000	2878.880	0.000	0.000	0.000	0.000	150.150	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 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)

CNP Number	Area Coverage	Valid Since	Expiry Date	Current Status
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
25th Reporting Month (1 Nov 2016 – 30 Nov 2016)	0	0	0
Cumulative Statistics (19 Nov 2014 – 30 Nov 2016)	0	0	0