

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

Monthly Environmental Audit Report No. 28 (Covering the Period from 1 February 2017 to 31 February 2017)

8 March 2017

Revision 00

Main Contractor



Independent Checker





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Hong Kong Housing Authority	
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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-eighth monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 28 February 2017.

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, mechanical, electrical and fire services testing and commissioning of the Temporary

Sewage Pumping Station (TSTS).



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 TSPS in Area 56 public housing development.
- 1.1.6 This is the twenty-eighth monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 28 February 2017.



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**.

Party	Position	Name	Telephone	Fax
Engineer or Engineer's Representative (Hong Kong Housing Authority)	Civil Engineer	Rachel Fung	2129 3709	2129 3095
Contractor	Site Agent	Ivan Ho	9383 8280	
(Hsin Chong Construction Company Ltd.)	Environmental Manager	Siu Hon Wing	9139 5367	3480 1791
	Environmental Supervisor	Ryan Wong	6198 0730	
Independent Checker (Atkins China Limited)	Independent Checker	Heidi Yeung	2972 1893	2890 6343

Table 1.1 Contact Information of Key Personnel

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 and commissioning of the TSPS.





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 3, 6, 17 and 23 February 2017.
- 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
3 February 2017	No particular environmental issue was recorded during this inspection.	Nil.	Not applicable.
6 February 2017	No particular environmental issue was recorded during this inspection.	Nil.	Not applicable.
17 February 2017	No particular environmental issue was recorded during this inspection.	Nil.	Not applicable.
23 February 2017	 Waste was accumulated at the drainage channel on the rooftop of TSPS. Stagnant water was observed at the ditch near the front door of the TSPS. 	 The Contractor was reminded to remove the accumulated waste from the drainage channel on the rooftop of TSPS. The Contractor was reminded to clear the stagnant water in the ditch near the front door of TSPS. 	To be inspected during the next site inspection.

2.1.3 No particular issues were identified during the regular environmental weekly site inspections conducted on 3, 6 and 17 February 2017 and two issues identified on 23 February 2017 during the reporting period. 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 March 2017 includes:
 - Plant, mechanical, electrical and fire services testing and commissioning of the TSPS.
- 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 1, 6, 17, 22 and 28 March 2017.



4 CONCLUSION

4.1 Conclusions

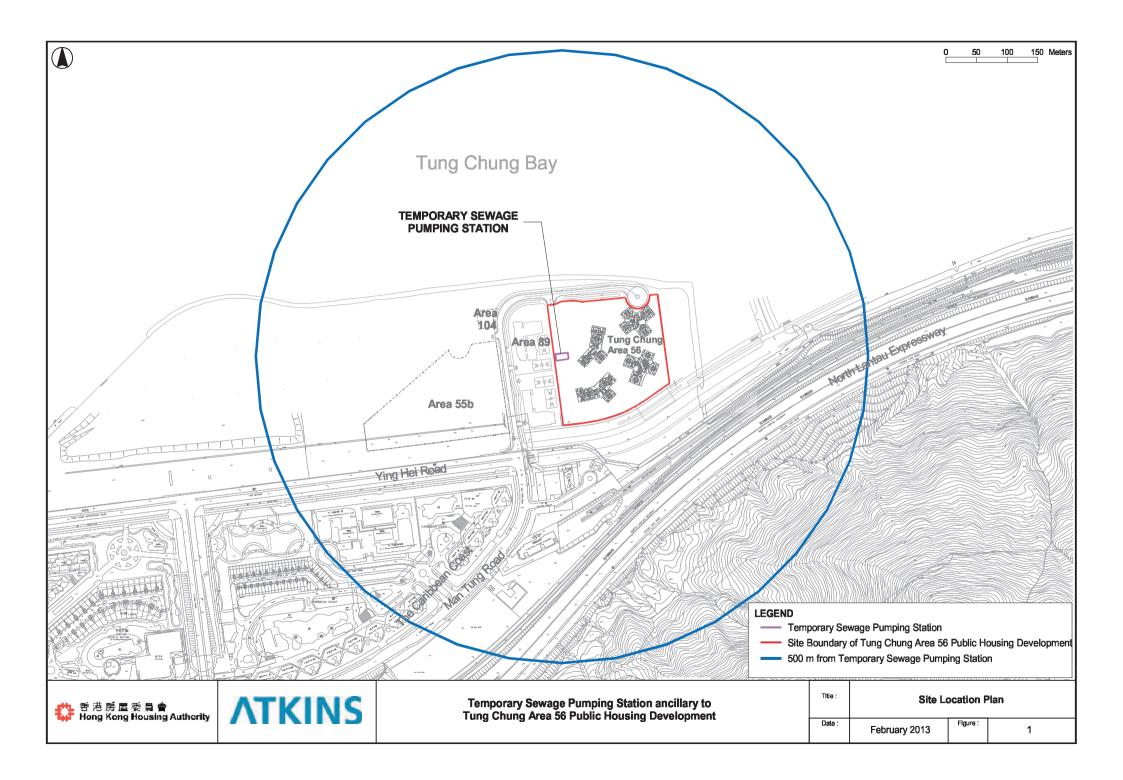
- 4.1.1 Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014.
- 4.1.2 No particular issues were identified during the regular environmental weekly site inspections conducted on 3, 6 and 17 February 2017 and two issues identified on 23 February 2017 during the reporting period. The Contractor has carried out mitigation measures recommended in the Project Profile and EP.
- 4.1.3 There were no environmental complaints received during the reporting period.
- 4.1.4 No notification of summons and successful prosecution were received during the reporting period.



APPENDIX A

Location of the Project and the Contract



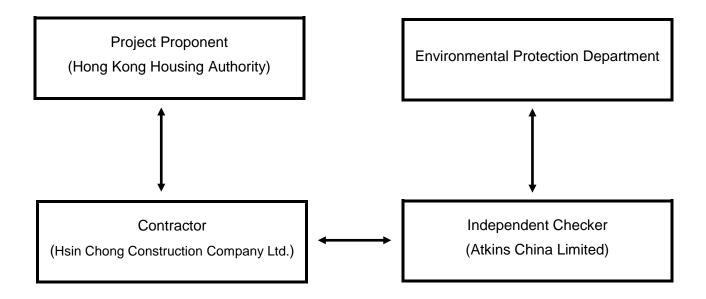




APPENDIX B

Project Organization for Environmental Works

Project Organization for Environmental Works



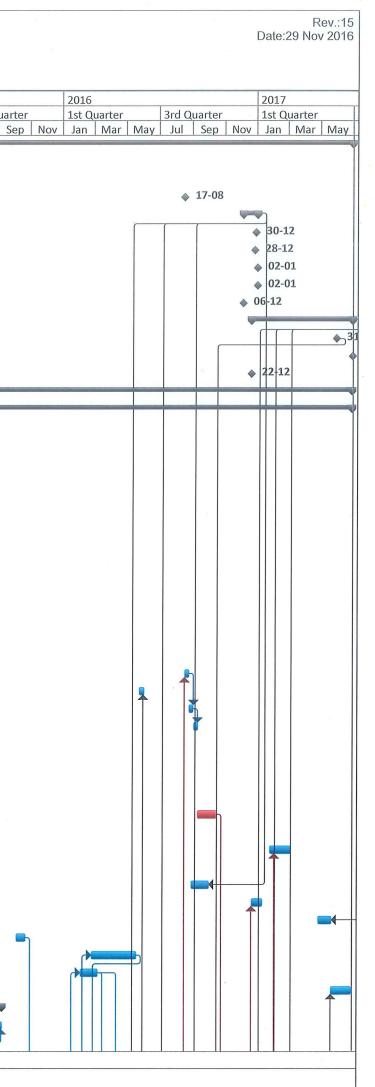


APPENDIX C

Construction Programme



ID	Task Name	Start	Finish	Duration	2014 2015 1st Quarter 3rd Quarter 1st Quarter 3rd Quarter
					Nov Jan Mar May Jul Sep Nov Jan Mar May Jul Se
1	Construct Particulars	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	
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	
7	Section 2	28-12-16	28-12-16	0 days	
8	Section 3	02-01-17	02-01-17	0 days	
9	Section 4	02-01-17	02-01-17	0 days	
10	Section 5 - Section 9	06-12-16	06-12-16	0 days	
11	Anticipated completion Date	22-12-16	30-06-17	135 days	
12	Section 1-4	31-05-17	31-05-17	0 days	
13	Section 5 - 7 & 9	30-06-17	30-06-17	0 days	
14	Section 8	22-12-16	22-12-16	0 days	
15	Preliminaries	18-12-13	28-06-17	952 days	Ŷ
16	Site Establishment	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 days	
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 days	
25	New Covered Walkway erection along the Northern Boundary	22-02-14	25-10-14	180 days	
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 days	
30	Erection of Tower Cranes (Block 2)	15-04-14	05-05-14	14 days	
31	Dismantling of Tower Cranes (Block 1)	19-08-16	26-08-16	7 days	
32	Dismantling of Tower Cranes (Block 2)	26-05-16	03-06-16	7 days	
33	Dismantling of Tower Cranes (Block 3)	27-08-16	03-09-16	7 days	
34	Dismantling of Tower Cranes (Block 4)	05-09-16	12-09-16	7 days	
35	1st Erection of Material Hoists Starting from Ground Level (Block 1)	14-02-15	28-03-15	32 days	
36	1st Erection of Material Hoists Starting from Ground Level (Block 2)	26-03-15	15-04-15	14 days	
37	1st Erection of Material Hoists Starting from Ground Level (Block 3)	30-03-15	18-04-15	14 days	
38	1st Erection of Material Hoists Starting from Ground Level (Block 4)	28-02-15	30-03-15	26 days	
39	Dismantling of Material Hoists (Block 1 - 4)	13-09-16	18-10-16	28 days	
40	1st Erection of Passenger Hoists (Block 1 - 4)	10-04-15	04-07-15	62 days	
41	Dismantling of Passenger Hoists	27-01-17	07-03-17	28 days	
42	1st Erection of Temporary Refuse Chutes (Block 1 - 4)	07-03-15	15-04-15	30 days	
43	Dismantling of Temporary Refuse Chutes	01-09-16	04-10-16	26 days	
44	Dismantle of Temp. Tx. Room (after notification from CLP)	24-12-16	12-01-17	14 days	
45	Latest dismantle of Scaffold for Annex Building	28-04-17	22-05-17	16 days	
46	Erection of Mid-way Gondola for Block 1, 3 and 4	08-10-15	24-10-15	14 days	
47	1st Erection of Gondola at Roof for Block 2	27-02-16	20-05-16	60 days	
48	Erection of Gondola at Roof for Block 1, 3 and 4 (High Zone)	06-02-16	09-03-16	24 days	
49	Dismantle of Gondola (Block 1 - 4)	22-05-17	28-06-17	28 days	
50	Relocation of Site Office	24-08-15	10-09-15	14 days	
51	To 2/F of Block 2 for HA	01-09-15	10-09-15	7 days	
52	To 1/F of Block 2 for HCC	24-08-15	31-08-15	7 days	





HSIN新昌			M	aster Progran	nme							Date	R 29 Nov
CHONG	Con	struction of	Public Rental	for Housing Deve	lopment at	Tung Chung Are	a 56						
			Finish	Duration	2014		2015		2016			201	7
Task Name		Start	FINISH	Duration	1st Qua	rter 3rd Quarter	1st Quarter	3rd Quarter	1st Quai		3rd Quarter Jul Sep	1st (Quarter Mar
Submission of Technical Document		18-12-13	20-08-16	716 days		Mar May Jul Sep							
Section 1 - Section 4 (Blk 1 to Blk 4)		09-01-14	31-05-17	916 days									
Timber Mock Up for the Kitchen & V	PB & Approval	15-02-14	31-07-14	123 days									1
Precast Element Fabrication		24-03-14	26-09-15	408 days		·							1
Steel Mould Fabrication		24-03-14	20-11-14	177 days									
Fabrication of Mock-up Precast E		06-06-14	05-07-14	21 days		-							
Study Mock Up for the VPB & Tria		07-07-14	05-11-14	90 days									
Mass Production of Precast Elem	ents	30-10-14	26-09-15 01-11-14	250 days			♦ 01-11						
1st Delivery of P.C. Elements		01-11-14	17-06-14	0 days			• 01-11						
Latest issuance date of R.C. details	R/F slad & UR/F	17-06-14 09-01-14	31-05-17	0 days 916 days		17-06							
RC Structure		09-01-14	18-06-16	660 days									
Domestic Blocks		09-01-14	13-06-16	655 days									
Block 1		09-01-14	10-06-14	116 days									
Pile Cap - G/F (Slab)	d Tanking	15-02-14	07-05-14	60 days									
Under Ground Drainage an Water Test for Drainage Wo		28-03-14	13-05-14	30 days									
Construction of Precast Wa		26-04-14	06-06-14	33 days									
Installation of P.C. Water Ta		01-09-14	13-09-14	10 days									
G/F - 1/F slab		26-05-14	19-09-14	82 days									
1/F - Level 16.75 (Transfer	Structure)	09-08-14	13-11-14	74 days									
Level 16.75 - 2/F slab	Sildclare)	31-10-14	03-12-14	29 days									
2/F to 3/F Slab		26-11-14	19-01-15	43 days									
		09-01-15	13-02-15	30 days									
4/F to 5/F Slab		04-02-15	10-03-15	25 days									
5/F to 6/F Slab		07-03-15	30-03-15	20 days									
6/F to 7/F Slab		27-03-15	17-04-15	15 days									
7/F to 8/F Slab		15-04-15	30-04-15	14 days				1					
8/F to 9/F Slab		06-05-15	27-05-15	14 days									
	days cycle) details shown in 90days programme	21-05-15	04-02-16	192 days									
39/F - Main Roof slab		02-02-16	24-02-16	16 days									
	Roof (Detailed Programmed to be Submitted Separately)	20-02-16	13-06-16	79 days									
Parapet Wall	-	22-02-16	15-04-16	40 days						\Rightarrow			
Lift Machine Room		20-02-16	27-04-16	50 days									
Water Tank		20-02-16	13-06-16	79 days									
Generator Room		25-02-16	04-05-16	50 days					🎽				
Generator Room Block 2		09-01-14	16-05-16	638 days									
Block 2 Pile Cap - G/F (Slab)		09-01-14	10-06-14	116 days									
Under Ground Drainage an	d Tanking	15-02-14	07-05-14	60 days									
Water Test for Drainage W	orks	28-03-14	13-05-14	30 days									
Construction of Precast Wa	iter Tank	26-04-14	06-06-14	33 days		••••							
Installation of P.C. Water T	ank	27-08-14	06-09-14	10 days									
G/F - 1/F slab		29-05-14	13-09-14	75 days									
1/F - 2/F slab		03-09-14	07-11-14	52 days									
2/F - Level 22.10 (Transfer	Structure)	06-11-14	06-02-15	76 days			in the second se						
Level 22.10 - 3/F slab		27-01-15	25-02-15	21 days			<u> </u>						
3/F to 4/F Slab		13-02-15	25-03-15	30 days									
4/F to 5/F Slab		17-03-15	13-04-15	20 days									
5/F to 6/F Slab		01-04-15	21-04-15	14 days			📫						
6/F to 7/F Slab		18-04-15	02-05-15	12 days									
7/F to 8/F Slab		29-04-15	12-05-15	10 days									
8/F to 9/F Slab		13-05-15	28-05-15	10 days				∎ _					
9/F to 10/F Slab		22-05-15	04-06-15	9 days									



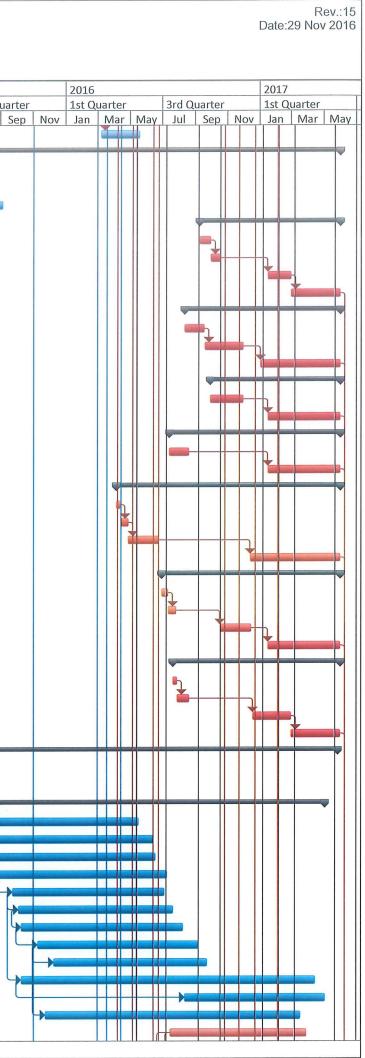
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Start	Finish	Duration	2014			2015			2016				2017	
			1st Qua	larter	3rd Quarter	1st Qua		3rd Quarter	1st Qu		3rd Qua		1st Q	uarte
02-06-15	20-01-16	172 days	Nov Jan	Mar May	Jul Sep N	Nov Jan	Mar May	Jul Sep I	Nov Jan	Mar Ma	y Jul	Sep No	ov Jan	Mar
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12-05-15							Ĕ.							
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08-06-15	20-02-16	190 days												
18-02-16	04-03-16	14 days												4
02-03-16	18-06-16	75 days												1
02-03-16	26-04-16	40 days												1
02-03-16	11-05-16	50 days												
02-03-16	18-06-16	75 days												
05-03-16	16-05-16	50 days												
09-01-14	16-06-16	658 days												
09-01-14	10-06-14	116 days												
15-02-14	07-05-14	60 days												
28-03-14	13-05-14	30 days												
26-04-14	06-06-14	33 days												1
02-08-14	18-08-14	10 days												1
31-05-14	25-08-14	58 days												
04-08-14	21-11-14	84 days				h								1
01-11-14	15-12-14	38 days			S									
08-12-14	31-01-15	44 days												
22-01-15	27-02-15	27 days												
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Construction of Public Rental Housing Development at Tung Chung Area 56

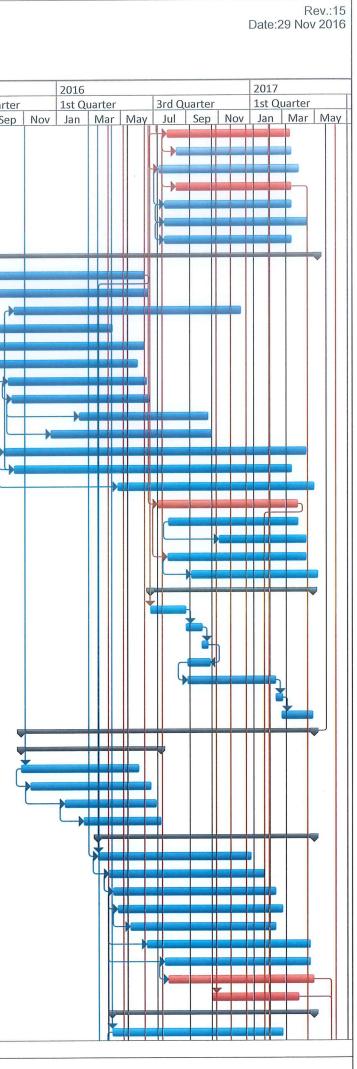
ID ⁻	Fask Name	Start	Finish	Duration	2014 2015
					1st Quarter 3rd Quarter 1st Quarter 3rd Qua
		07.02.16	17-05-16	50 dovo	Nov Jan Mar May Jul Sep Nov Jan Mar May Jul
446	Generator Room	07-03-16 15-07-15	31-05-17	50 days 504 days	
447	Link Decks	15-07-15	19-07-15	4 edays	
448	Submit SSP	24-07-15	04-08-15	10 days	
449	Submit & Approve Method Statement for Footing Construction	05-08-15	04-09-15	22 days	
450	Apply for CM's Permission for excavation & footing	09-09-16	31-05-17	200 days	
451	Link Decks No. 1	09-09-16	29-09-16	17 days	
452	Excavation for the footing	30-09-16	18-10-16	14 days	
453	Footing construction	16-01-17	28-02-17	32 days	
454	Link Decks Structure Construction	01-03-17	31-05-17	65 days	
455	Link Decks Finishing Works	12-08-16	31-05-17	221 days	
456	Link Decks No. 2 and 3 Link Decks Column	12-08-16	17-09-16	28 days	
457	Link Decks Structure Construction	19-09-16	30-11-16	61 days	
458	Link Decks Structure Construction	02-01-17	31-05-17	107 days	
459		29-09-16	31-05-17	184 days	
460	Link Decks No.4 Link Decks Structure Construction	29-09-16	30-11-16	52 days	
461		16-01-17	31-05-17	97 days	
462	Link Decks Finishing Works	14-07-16	31-05-17	241 days	
463	Link Decks No.5 Link Decks Structure Construction	14-07-16	19-08-16	24 days	
464	Link Decks Structure Construction	16-01-17	31-05-17	97 days	
465	Link Decks Prinsting Works	05-04-16	31-05-17	308 days	
466	Excavation for the footing	05-04-16	12-04-16	7 days	
467	Footing construction	14-04-16	27-04-16	11 days	
468	Link Decks Structure Construction	27-04-16	24-06-16	40 days	
469	Link Decks Finishing Works	14-12-16	31-05-17	121 days	
470	Link Decks No. 7	30-06-16	31-05-17	249 days	
471	Excavation for the footing	30-06-16	11-07-16	7 days	
472 473	Footing construction	12-07-16	26-07-16	12 days	
473	Link Decks Structure Construction	18-10-16	15-12-16	51 days	
474	Link Decks Finishing Works	16-01-17	31-05-17	97 days	
475	Link Decks No. 8	21-07-16	31-05-17	235 days	
470	Excavation for the footing	21-07-16	28-07-16	7 days	
477	Footing construction	29-07-16	20-08-16	12 days	
478	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	Finishing Works	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	Internal finishes for Flat Unit (Detailed Programmed to be Submitted Separately)	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

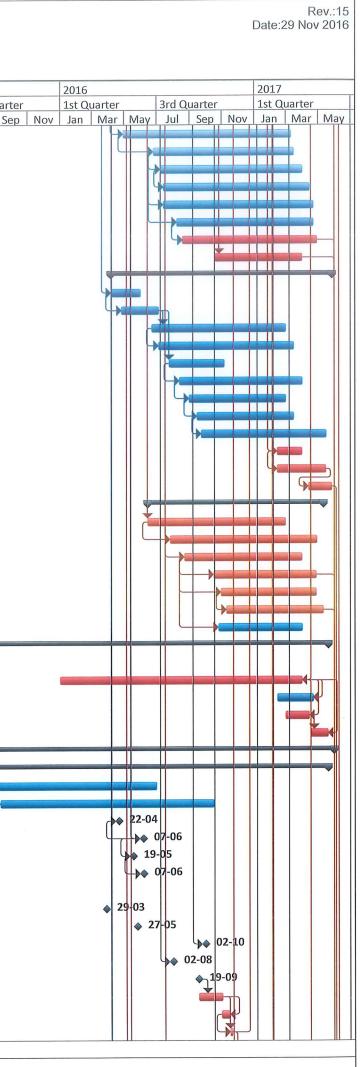
	a ale Nama	Start	Finish	Duration		2014			2015		
D T	ask Name	Start				1st Quarter		Quarter	1st Qu		3rd Quarte
		07.07.40	15.02.17	176 days	Nov	/ Jan Mar	May Ju	I Sep Nov	Jan	Mar Ma	ay Jul Sep
498	Granite Threshold	27-07-16	15-03-17 17-03-17	176 days 168 days							
499	Cooking Bench	13-08-16	31-03-17	201 days							
500	Metal Gate Set	11-07-16		168 days							
501	Sanitary Fittings	13-08-16	17-03-17								
502	Mirror	22-07-16	17-03-17	182 days							
503	Laundry Rack	22-07-16	17-04-17	203 days							
504	Sealant Pointing	22-07-16	17-03-17	182 days							
505	Internal finishes for Common Area and Service Rooms	18-06-15	05-05-17	503 days							
506	Door Subframe	18-06-15	13-06-16	260 days							
507	Blockwork	30-06-15	21-06-16	260 days							N
508	Metalwork	13-10-15	12-12-16	318 days							
509	Door Kerb	10-09-15	14-04-16	164 days							
510	Wall Backing & Fair Face Formation	01-09-15	13-06-16	209 days							
511	Window Frame	27-08-15	31-05-16	207 days							
512	Waterproofing	02-10-15	17-06-16	190 days							
513	Floor Screeding	09-10-15	23-06-16	191 days							
514	Wall Tiling	12-02-16	11-10-16 18-10-16	172 days 214 days							
515	Floor Tiling	21-12-15		-							
516	Skim Coat and Painting (Ceiling)	24-09-15	14-04-17	420 days							
517	P & D Pipework	13-10-15	17-03-17 28-04-17	388 days 271 days							
518	Spray Painting	25-04-16									
519	Door Set & Ironmongeries	09-07-16	29-03-17 29-03-17	200 days 184 days							
520	FRP Metal Door	29-07-16									
521	Make Good and Spray Painting after Metal Door Installation	01-11-16	14-04-17	126 days							
522	Signage	28-07-16	14-04-17 05-05-17	197 days 181 days							
523	Sealant Pointing	10-09-16									
524	Roof Finishes	25-06-16	26-04-17	227 days							
525	Floor Screeding	25-06-16	30-08-16 30-09-16	43 days 26 days							
526	Waterproofing	31-08-16 30-09-16	11-10-16	8 days							
527	Water Tightness Test for Roof	03-09-16	15-10-16	34 days							
528	Insulation and Screeding	03-09-16	15-02-17	131 days							
529	Roof Tiling	16-02-17	28-02-17	9 days							
530	Sealant Pointing	27-02-17	26-04-17	43 days							
531	Metalwork	26-10-15	28-04-17 28-04-17	408 days							
532	External Wall Finishes (Typical Floor)	26-10-15	14-07-16	190 days						1	
533	Block 1, 3 & 4 - Low Zone (2/F - 20/F)	26-10-15	02-06-16	165 days							
534	Fair Face Formation	12-11-15	25-06-16	165 days							(
535	Water Tightness Test for Tie Bolt Holes	16-01-16	05-07-16	120 days							
536	Spray Paint	20-02-16	14-07-16	100 days							
537	P & D Pipework	18-03-16	28-04-17	295 days							
538	Block 1 & 2	18-03-16	31-12-16	210 days							
539	Fair Face Formation	08-04-16	25-01-17	216 days							
540	Water Tightness Test for Tie Bolt Holes	16-04-16	15-02-17	225 days							
541	Spray Paint										
542	P & D Pipework	25-04-16	28-02-17	228 days 203 days							
543	Gas Pipework	18-05-16	15-02-17 21-04-17	203 days 230 days							
544	Glazing Installation	18-06-16 22-07-16	21-04-17	230 days 207 days							
545	Sealant Pointing	22-07-16	21-04-17	207 days 206 days							
546	Water Tightness Test for Façade Joint and Windows		31-03-17	127 days							
	Finishing Works for External Wall after Material Hoist and Passenger Hoist Dismantling	19-10-16	28-04-17	279 days							
547 548	Block 3 & 4	14-04-16		.) / U // O// C							





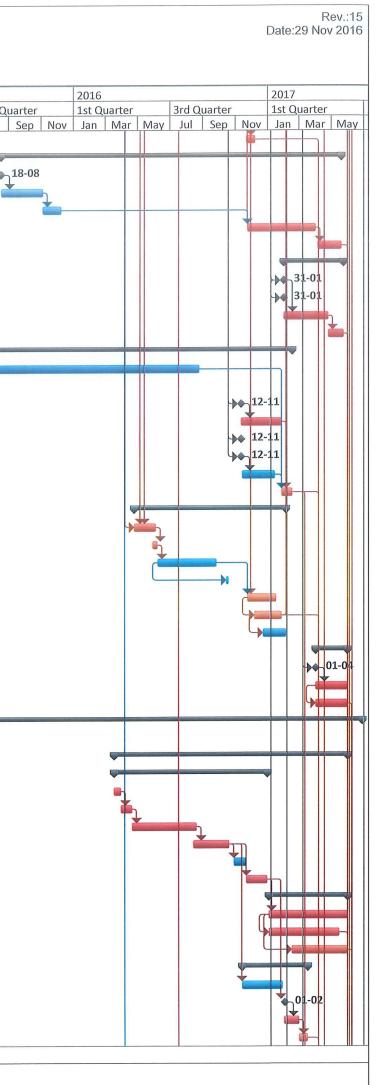
Construction of Public Rental Housing Development at Tung Chung Area 56

	Task Name	Start	Finish	Duration	2014	201	2015			
ID	Task Name				1st Quarter 3rd	Quarter 1st	Quarter 3rd Quarte			
			10.00.17		Nov Jan Mar May Ju	Il Sep Nov Jan	Mar May Jul Ser			
550	Water Tightness Test for Tie Bolt Holes	29-04-16	10-03-17 15-03-17	232 days 197 days						
551	Spray Paint	25-06-16 08-07-16	31-03-17	203 days						
552	P & D Pipework	14-07-16	14-04-17	209 days						
553	Gas Pipework		21-04-17	214 days						
554	Glazing Installation	14-07-16	21-04-17	195 days						
555	Sealant Pointing	08-08-16 19-08-16	28-04-17	196 days						
556	Water Tightness Test for Façade Joint and Windows	19-10-16	31-03-17	127 days						
557	Finishing Works for External Wall after Material Hoist and Passenger Hoist Dismantling	06-04-16	26-05-17	304 days						
558	Internal Finishes (G/F - 1/F)	06-04-16	31-05-16	40 days						
559	Door Subframe	26-04-16	04-07-16	45 days						
560	Blockwork	22-06-16	28-02-17	189 days						
561	Door Kerb & Additional U Chaanel	05-07-16	15-03-17	193 days						
562	Waterproofing	25-07-16	05-11-16	79 days						
563	Wall Backing & Fair Face Formation	13-08-16	31-03-17	178 days						
564	Floor Screeding	31-08-16	28-02-17	143 days						
565	Wall Tiling	15-09-16	15-03-17	141 days						
566	Floor Tiling Skim coat and Painting	23-09-16	15-05-17	177 days						
567	Door Set & Ironmongeries	13-02-17	31-03-17	35 days						
568	Mail Box and Guard counter	13-02-17	15-05-17	65 days						
569	Play Surfaces and Play Equipment	13-04-17	26-05-17	31 days						
570	External Finishes (G/F - 1/F)	15-06-16	10-05-17	245 days						
571	Fair Face Formation	15-06-16	28-02-17	195 days						
572 573	Steel and Metal Works	27-07-16	28-04-17	208 days						
	Metal Door Louver and Windows	23-08-16	31-03-17	173 days						
574 575	Shutter (shopfront)	17-10-16	27-04-17	148 days						
576	Glass Door and Glass Shop Front	31-10-16	27-04-17	136 days						
577	Signbox (shopfront)	10-11-16	10-05-17	135 days						
578	Spray Paint	26-10-16	31-03-17	121 days						
579	Plumbing and Drainage Works	29-11-14	19-05-17	664 days						
580	Form WWO 46 Part I & II Submission	29-11-14	29-11-14	0 days		♦ _29-11				
581	Plumbing and Drainage Pipework Installation for Block 1-4	02-01-16	31-03-17	333 days						
582	Installation of Water Meter for Flat Unit	13-02-17	21-04-17	50 days						
583	Hydraulic Test of Plumbing System	01-03-17	14-04-17	33 days						
584	Leakage Test of Drainage System	17-04-17	19-05-17	24 days						
585	Building Services Installation	26-05-14	31-05-17	812 days						
586	Electrical Works for Domestic Blocks	26-05-14	19-05-17	805 days						
587	Concealed Conduit Installation & Other Conduit Works	26-05-14	30-06-16	565 days						
588	Wiring Works	11-09-15	17-10-16	293 days						
589	Handover of TX Room for NSCs	22-04-16	22-04-16	0 days						
590	TX Room Inspection & Handover to CLP	07-06-16	07-06-16	0 days						
591	Make Available Vehicular Access for TX Installation	19-05-16	19-05-16	0 days						
592	Make Available 1.5m Wide Area for UG Cable Route to CLP	07-06-16	07-06-16	0 days			14.02			
593	Handover of Main Switch Room for NSC	14-03-15	14-03-15	0 days			14-03			
594	Handover of Low Zone Meter Rooms for NSC	29-03-16	29-03-16	0 days						
595	Handover of High Zone Meter Rooms to NSC	27-05-16	27-05-16	0 days						
596	Handover of Genset Room for NSC	02-10-16	02-10-16	0 days						
597	Make Available Vehicular Access for Transportation of Equipment to Genset & Main Switch I		02-08-16	0 days						
598	Make Available the U/G Cable Ducts and Draw Pits to NSC and CLP	19-09-16 19-09-16	19-09-16 03-11-16	0 days 45 edays	-					
599	CLP installation & power-on of TxRm	01-11-16	16-11-16	45 edays 14 days						
600	Electrical Meter Installation for Common Area and Flat Unit	17-11-16	21-11-16	4 days						
601	Power Energisation	17-11-10	21-11-10	- uayo						





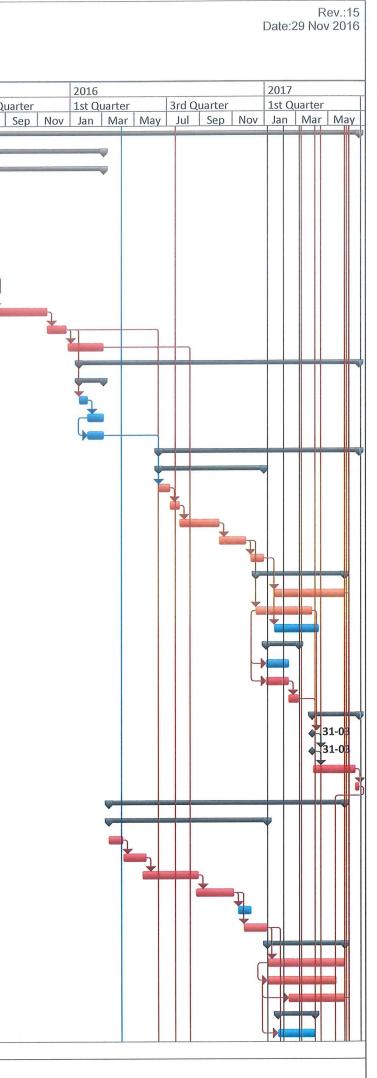
Task Name		Start	Finish	Duration	2014 2015 1st Quarter 3rd Quarter 1st Quarter
02 Testing & Commiss	ioning	22-11-16	07-12-16	ואס Nov 14 days	vv Jan Mar May Jul Sep Nov Jan Mar May
	loning	18-08-15	19-05-17	474 days	
	ving	18-08-15	18-08-15	0 days	
	nd Method Statement Submission and Approval	18-08-15	03-11-15	60 days	
	k-up Erection for CM Approval	04-11-15	08-12-15	30 days	
		24-11-16	31-03-17	96 days	
7 PV Panels at Ro	ows Installation / Vertical PV Panels	05-04-17	19-05-17	32 days	
	S Works for Domestic Blocks	31-01-17	23-05-17	80 days	
	BE Rooms & Telecom Rooms	31-01-17	31-01-17	0 days	
	Lead-in Duct and Area for FTNS & DPTPS	31-01-17	31-01-17	0 days	
	Lead-III Duct and Alea for FING & DFIT G	31-01-17	24-04-17	60 days	
FTNS Installation Testing & Commiss	laning	25-04-17	23-05-17	20 days	
		26-05-14	15-02-17	739 days	
Fire Services Works		26-05-14	24-08-16	600 days	
	and System Installation	29-11-14	29-11-14	0 days	29-11
Form WO46 Part I Make Available of V		12-11-16	12-11-16	0 days	¥
	Vater Tanks & Pump Rooms on G/F for NSC	12-11-16	26-01-17	60 days	
F.S. Pipe and Pum		12-11-16	12-11-16	0 days	
	S Booster Pump Room & Rainwater Treatment Plant Room	12-11-16	12-11-16	0 days	
	er Tanks & Pump Rooms on R/F to NSC	14-11-16	13-01-17	50 days	
F.S. Pipe and Pum Testing & Commiss		27-01-17	15-02-17	14 days	
Testing & Commiss		25-04-16	03-02-17	211 days	
	s for Domestic Block and MRL at 1 to 4	25-04-16	04-06-16	30 days	
	caffoldings inside Lift Shaft	30-05-16	07-06-16	7 days	
	afts & Lift Machine Room to NSC	07-06-16	25-09-16	110 edays	
Lifts Installations (1		15-10-16	18-10-16	3 days	
-	Scaffoldings inside Lift Shafts	24-11-16	16-01-17	42 days	
Submit Form LE5 t		07-12-16	26-01-17	39 days	
·	& Lift Certificate Issuance	23-12-16	03-02-17	31 days	
Lift Inspection by H					
Town Gas for Dome Make Available the		01-04-17	31-05-17 01-04-17	41 days	
	Area Along External U/G route to T.G.	01-04-17		0 days	
T.G. Pipe Installation		01-04-17	31-05-17	60 edays 60 edays	
T.G. Meter Installa		01-04-17	31-05-17	-	
	ock, Supermarket, TSPS, RCP, Wet Market	28-08-14	27-06-17	766 days	28-08
	ving of ISC, Supermarket, TSPS, RCP, Wet Market	28-08-14	28-08-14	0 days	20-00
ISC		18-03-16	31-05-17	317 days	
RC structure		18-03-16	30-12-16	209 days	
	footing & Plate Load Test	18-03-16	30-03-16	6 days	
Footing constructi		31-03-16	20-04-16	15 days	
	m and slab construction	21-04-16	20-08-16	80 days	
G/F - roof constru		15-08-16	20-10-16	52 days	
Planter and Parape	et Wall	29-10-16	21-11-16	20 days	
Water Tank		22-11-16	30-12-16	32 days	
Finishes		03-01-17	31-05-17	106 days	
Roof Finishing Wo		03-01-17	31-05-17	106 days	
Internal Finishing V		03-01-17	15-05-17	94 days	
External Wall Finis		15-02-17	31-05-17	75 days	
Building services in		14-11-16	16-03-17	94 days	
Building services in		14-11-16	27-01-17	60 days	
	nks & pump rooms to NSC	01-02-17	01-02-17	0 days	
FS Pipe & water p	Imp installation	01-02-17	28-02-17	20 days	
	ioning (EL, FS, P&D)	01-03-17	16-03-17	12 days	



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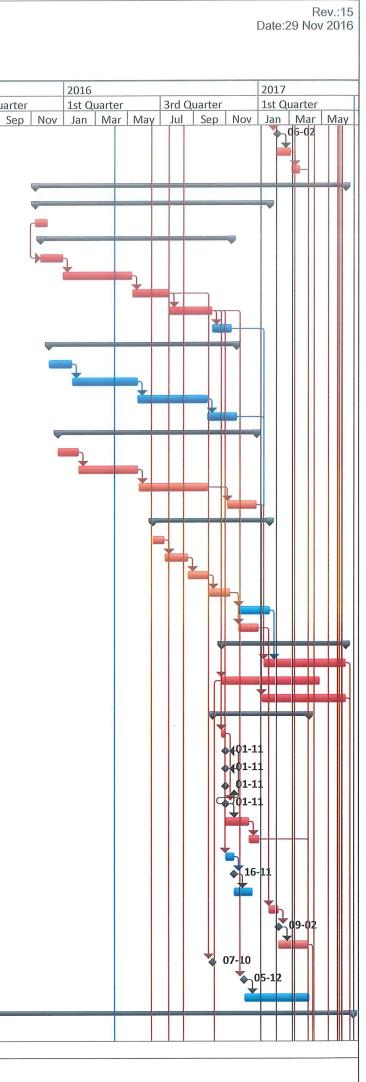


ID	Task Name	Start	Finish	Duration	2014 2015
					1st Quarter 3rd Quarter 1st Quarter 3rd Quarter
654	Supermarket, TSPS, RCP	25-11-14	27-06-17	696 days	
655	TSPS	25-11-14	03-03-16	348 days	
656	RC Structure	25-11-14	03-03-16	348 days	
657	Submit and Approval of Environmental Office (TSPS)	25-11-14	10-12-14	14 days	
658	Pipe pile & King Post installation & grout curtain (TSPS)	11-12-14	27-01-15	37 days	
659	Pumping test and report submission (TSPS)	28-01-15	03-03-15	25 days	
660	Submit as-built record to CM for Approval (TSPS)	04-03-15	28-03-15	22 days	
661	Submit ICU14 & Obtain CM's Approval for ELS Work (TSPS)	30-03-15	08-05-15	30 days	
662	ELS for the footing (TSPS) & Plate Load Test	09-05-15	05-08-15	60 days	
663	Submit as-built ELS record to ICU (TSPS)	04-07-15	05-08-15	22 days	
664	Footing construction (TSPS)	06-08-15	18-11-15	80 days	
665	Footing to G/F beam and slab construction (TSPS)	19-11-15	24-12-15	30 days	
666	G/F - roof construction (TSPS)	28-12-15	03-03-16	50 days	
667	RCP & Supermarket	18-01-16	27-06-17	384 days	
668	ELSW	18-01-16	03-03-16	36 days	
669	Sheet pile installation (RCP, Supermarket)	18-01-16	02-02-16	14 days	
670	Submit as-built record to CM for Approval (RCP, Supermarket)	03-02-16	03-03-16	22 days	
671	Submit ICU14 & Obtain CM's Approval for ELS Work (RCP & Supermarket)	03-02-16	03-03-16	22 days	
672	RCP	16-06-16	27-06-17	278 days	
673	RC Structure	16-06-16	30-12-16	151 days	
674	Excavation for the footing	16-06-16	07-07-16	14 days	
675	Footing construction	08-07-16	25-07-16	14 days	
676	Footing to G/F beam and slab construction	26-07-16	07-10-16	54 days	
677	G/F - roof construction	08-10-16	26-11-16	42 days	
678	Planter and Parapet Wall	06-12-16	30-12-16	20 days	
679	Finishing Works	16-12-16	31-05-17	119 days	
680	Roof Finishing Works	19-01-17	31-05-17	94 days	
681	Internal Finishing Works	16-12-16	31-03-17	77 days	
682	External Wall Finishing Works	19-01-17	12-04-17	60 days	
683	Building services installation	04-01-17	06-03-17	44 days	
684	Building services installation	04-01-17	14-02-17	30 days	
685	FS installation	04-01-17	14-02-17	30 days	
686	Testing & commissioning (EL, FS, P&D)	15-02-17	06-03-17	14 days	
687	Refuse Handling System Installation	31-03-17	27-06-17	61 days	
688	Make Available RCP, JCP & Refuse Rooms to Direct Contractor	31-03-17	31-03-17	0 days	
689	Make Available Vehicular Access for Transportation of Equipment	31-03-17	31-03-17	0 days	
690	Installation Works	03-04-17	20-06-17	56 days	
691	Trial Run by Refuse Collection Vehicle	21-06-17	27-06-17	5 days	
692	Supermarket	14-03-16	31-05-17	321 days	
693	RC Structure	14-03-16	05-01-17	218 days	
694	Excavation for the footing	14-03-16	09-04-16	18 days	
695	Footing construction	11-04-16	23-05-16	30 days	~
696	Footing to G/F beam and slab construction	17-05-16	29-08-16	69 days	
697	G/F - roof construction	26-08-16	03-11-16	57 days	
698	Planter and Parapet Wall	12-11-16	05-12-16	20 days	
699	Water Tank	23-11-16	05-01-17	36 days	
700	Finishing Works	06-01-17	31-05-17	103 days	
701	Roof Finishing Works	06-01-17	31-05-17	103 days	
702	Internal Finishing Works	06-01-17	15-05-17	91 days	
703	External Wall Finishing Works	15-02-17	31-05-17	75 days	
704		26-01-17	05-04-17 05-04-17	50 days	
705	Building services installation	26-01-17	00-04-17	JU udys	



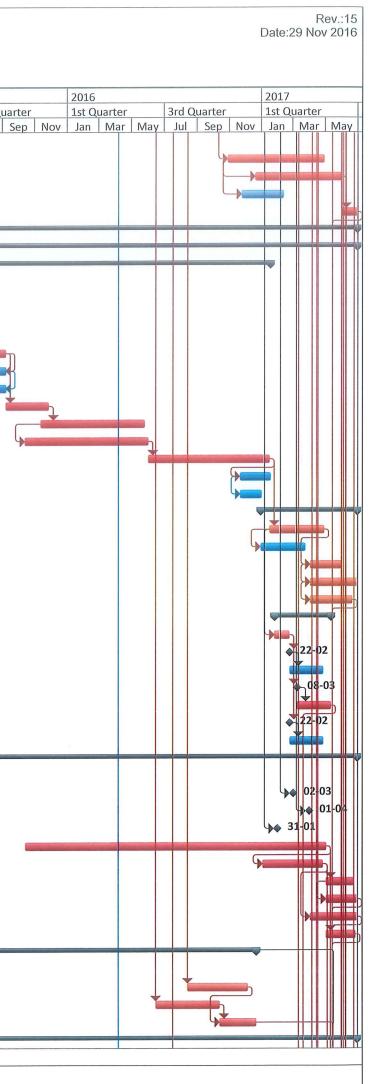


D Task Nai	me	Start	Finish	Duration		2014 2015	
					Nov		<u>3rd Qu</u> Jul
706	Make Available water tanks & pump rooms to NSC	06-02-17	06-02-17	0 days			Jui
707	FS installation & water pump installation	06-02-17	03-03-17	20 days			
708	Testing & commissioning (EL, FS, P&D)	06-03-17	20-03-17	11 days			
	Market	09-11-15	15-06-17	429 days			
105	C structure (Detailed Programmed to be Submitted Separately)	09-11-15	23-01-17	327 days			
710 110	Excavation for the footing	09-11-15	01-12-15	20 days			
	Zone 1	19-11-15	11-11-16	261 days			
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			
	Zone 2	05-12-15	21-11-16	255 days		· · · ·	
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			
	Zone 3	22-12-15	29-12-16	273 days			
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			
the second se	Zone 4 (After Removal of Tower Crane for Block 2)	18-06-16	23-01-17	166 days			
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			
	inishing Works	25-10-16	15-06-17	175 days			
	Roof Finishing Works	13-01-17	15-06-17	109 days			
	Internal Finishing Works	25-10-16	27-04-17	141 days			
	External Wall Finishing Works	09-01-17	15-06-17	113 days			
	uilding services installation	07-10-16	07-04-17	140 days			
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			
	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			
	Handover AHU Room and Fan Room to NSC	05-12-16	05-12-16	0 days			
	AHU System Installation	07-12-16	07-04-17	90 days			
756 Section	n 6 - Fit-out to Wet Market	17-12-14	29-06-17	679 days		₽	
20 HOR 200	firmation for the Scope for Fitting-out of Wet Market	17-12-14	17-12-14	0 days		17-12	



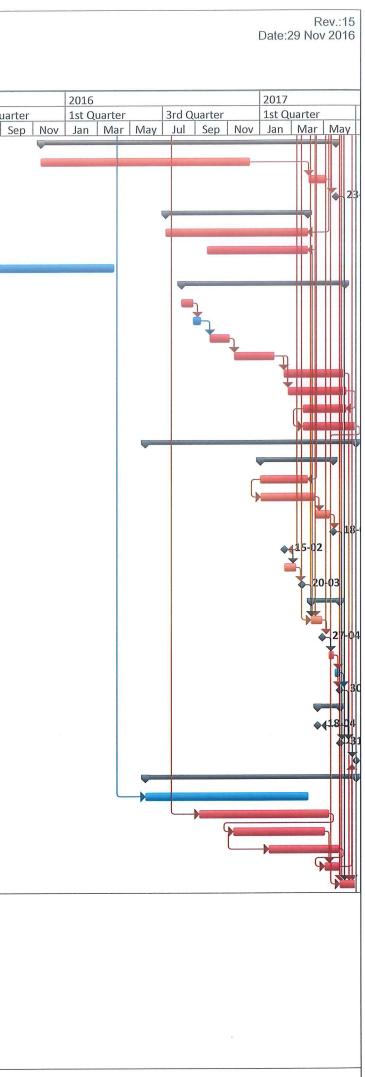


D	Task Name	Start	Finish	Duration		2014			2015	
					Nov	1st Quarte Jan Ma	r May	3rd Quarter Jul Sep		3rd Qua May Jul S
758	Issue Drawings for Fitting-out of Wet Market (SI - A053)	17-12-14	17-12-14	0 days		jan ivia	IVIAY	Jui Seb	▲ 17-12	
759	Wet & Dry Stall Installation	29-10-16	28-04-17	138 days						
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	Section 7 - Estate Road, EVA, Carriageway & Basement Car park	25-08-14	29-06-17	772 days						
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					L L	
768	Submit as-built record to CM for Approval	09-02-15	11-03-15	22 days					1	
769	Submit ICU14 & Obtain CM's Approval for Bulk Excavation Work	11-03-15	02-04-15	22 edays					1	
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	Finishes & building services	31-12-16	29-06-17	129 days						
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	Building services installation	26-01-17	11-05-17	75 days						
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	Estate Road, EVA & Carriageway	10-04-15	29-06-17	592 days						
794	Issuance of U/G drainage & Utilities/run-in Connections location to Road L16	10-04-15	10-04-15	0 days	4				••	10-04
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 separatelly)	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						
	Section 8 - Temporary Sewage Pumping Station including Rising Mains	25-11-14	22-12-16	564 days					-	
805	Submit the EO to CM and EPD Approval	25-11-14	25-11-14	0 days					25-11	
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	Section 9 - Remaining Works	20-08-15	29-06-17	501 days						





ID	Task Name	Start	Finish	Duration		2014				2015	
		10.5 M 1 M				1st Quarter		3rd Quarter		1st Quarter	3rd Quar
					Nov	Jan Mar I	May	Jul Sep M	Vov	Jan Mar May	/ Jul Se
810	Last Manhole Connections (Details to be Submitted Separately)	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	Under Ground Pumping and F.S. Pipe Works (Details to be Submitted Separately)	07-07-16	31-03-17	204 days							
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	Amphitheatre/Open Plaza Construction (Details to be Submitted Separately)	06-08-16	09-06-17	230 days							
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	Final Inspection Processes	30-05-16	30-06-17	291 days							
828	Inspection by WSD	02-01-17	18-05-17	98 days							
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	Inspection by FSD	07-04-17	30-05-17	37 days							
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	ICU Submission of OP	18-04-17	31-05-17	30 days							
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	Project Inspection and Handover	30-05-16	30-06-17	291 days							
840	Water Tightness Test for VPBs	30-05-16	31-03-17	227 days							
	Water Tightness Test for Kitchen and Refuse Storage Room	09-09-16	10-05-17	185 days							
848	Flat - to - flat Inspection and Handover	12-11-16	02-05-17	127 days							
849	Defect Rectification Works and Re-inspection	18-01-17	29-05-17	93 days							
850	Common Areas and External Area Inspection	03-05-17	30-05-17	20 days							
851	Finial Inspection of External Works	01-06-17	30-06-17	22 days							
852				22 4495		<u>.</u>			-		





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

Labour Resources Plan (Revision 1)

Year	<u>2016</u> <u>2017</u>																											
Month	<u>12</u>				1					2			3			4				5				6				
Week	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	2	<u>3</u>	<u>4</u>	1	<u>2</u>	<u>3</u>	<u>4</u>
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	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
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
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	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
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
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
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
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
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	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	0
Paver	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
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

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Lunar New Year

Date: 2	9.11	2016
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APPENDIX D

Waste Flow Table

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

	Estimated Annual Quantities of Inert C&D Materials (in '000 Kg)				Estimated Quantities of C&D Waste						
Month	Total Quantity Generated	Suitable for Recycled Aggregates	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	Timber
	(a)	(b)	(C)	(d)	(e=a-b-c-d)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000litre)	(in '000 Kg)	(in '000 Kg)
						2014					
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.160	0.000
December	4.910	0.000	0.000	0.000	4.910	0.000	0.000	0.000	0.000	5.830	0.000
						2015					
January	5.970	0.000	0.000	0.000	5.970	0.000	0.000	0.000	0.000	2.880	0.000
February	4.540	0.000	0.000	0.000	4.540	0.000	0.000	0.000	0.000	2.450	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.480	0.000
April	1097.040	0.000	0.000	0.000	1097.040	0.000	0.000	0.000	0.000	1.930	0.000
May	467.250	0.000	0.000	0.000	467.250	0.000	0.000	0.000	0.000	6.520	0.000
June	1237.690	0.000	0.000	0.000	1237.690	0.000	0.000	0.000	0.000	9.720	0.000
July	61.480	0.000	0.000	0.000	61.480	0.000	0.000	0.000	0.000	8.680	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.210	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.170	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.180	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.940	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.380	0.000
						2016					
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.820	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.230	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.640	0.000
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.100	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.830	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.310	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.820	0.000
August	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
						2017					
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.680	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.450	0.000
Grand Total	2878.880	0.000	0.000	0.000	2878.880	0.000	0.000	0.000	0.000	164.300	0.000

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

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



APPENDIX E

Environmental Licenses and Permits

Summary of Environmental Licences and Permits Application and Status

Environmental Permit (EP)

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

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

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

Billing Account for Disposal of Construction Works

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

Chemical Waste Producer Registration

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

Wastewater Discharge Licence

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

Construction Noise Permit (CNP)

CNP Number	Area Coverage	Valid Since	Expiry Date	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	Expired, as replaced by GW-RS0010-17
GW-RS0010-17	Entire Site of the Contract (include TSPS)	29 Jan 2017	28 Jun 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
28 th Reporting Month (1 Feb 2017 – 28 Feb 2017)	0	0	0
Cumulative Statistics (19 Nov 2014 – 28 Feb 2017)	0	0	0