

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

**Monthly Environmental Audit Report No. 32
(Covering the Period from 1 June 2017 to 30 June 2017)**

17 August 2017

Revision 00

Main Contractor



**HSIN新昌
CHONG**

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 thirty-second monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 30 June 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 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 thirty-second monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 30 June 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**.

Table 1.1 Contact Information of Key Personnel

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

1.3 Construction Programme

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

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

- The inlet chamber, wet well and screening facilities were installed within a reinforced concrete structure (EP Specific Condition 2.2);
- The deodorizer with forced ventilation equipment was installed (EP Specific Condition 2.3);
- Odour removal rate will be verified (EP Specific Condition 2.3);
- The pump sets and the mechanically raked screens were provided within a reinforced concrete structure (EP Specific Condition 2.4);
- Silencers were installed at all exits of the provided ventilation exhaust fans (EP Specific Condition 2.4);
- Provision of a soundproof door and installation of acoustic louvers 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 will be implemented into two parts (i.e. green roof tray system and soft landscape). The green roof tray system and soft landscape will be implemented tentatively at the end of October 2017 by Contractor and quarter 1 of 2018 by Development & construction Division of Housing Department, respectively. (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 2, 9, 15, 22 and 30 June 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
5 June 2017	Nil.	Nil.	Not applicable.
9 June 2017	Nil.	Nil.	Not applicable.
15 June 2017	Nil.	Nil.	Not applicable.
22 June 2017	Nil.	Nil.	Not applicable.
30 June 2017	Nil.	Nil.	Not applicable.

- 2.1.3 No particular issues were identified during the regular environmental weekly site inspections conducted on 2, 9, 15, 22 and 30 June 2017 during the reporting period. However, 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 July 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 5, 13, 19 and 28 July 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 2, 9, 15, 22 and 30 June 2017 during the reporting period. However, 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



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

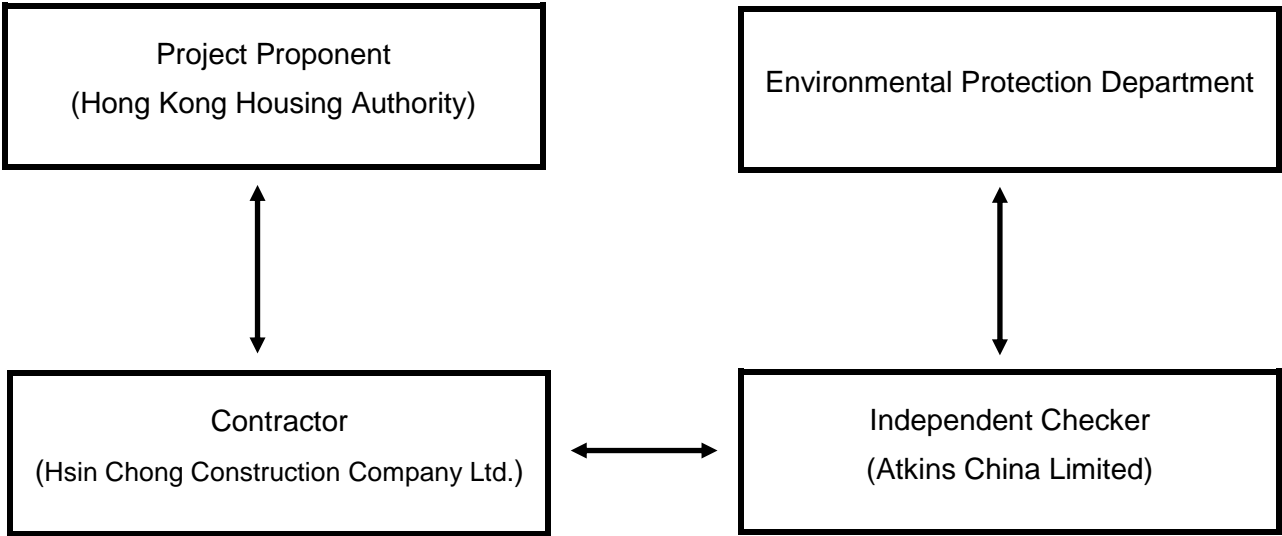
-  Temporary Sewage Pumping Station
-  Site Boundary of Tung Chung Area 56 Public Housing Development
-  500 m from Temporary Sewage Pumping Station



APPENDIX B

Project Organization for Environmental Works

Project Organization for Environmental Works

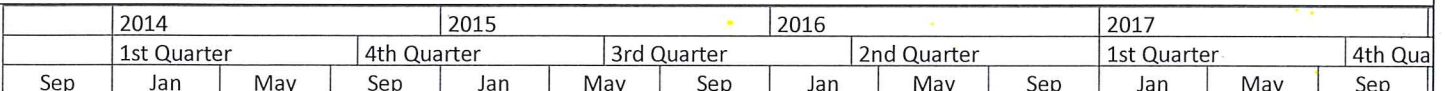















































APPENDIX C

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			4th Quarter			3rd Quarter			2nd Quarter			1st Quarter			4th Quarter		
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Jan	May	Sep	Jan	May	Sep			
1	Construct Particulars	18-12-13	31-08-17	997 days																		
2	Contract commencement of all sections of works	18-12-13	18-12-13	0 days																		
3	Possession of Site	18-12-13	18-12-13	0 days																		
4	Original Project Completion Date	17-08-16	17-08-16	0 days																		
5	Extended Project Completion Date with Granted EOT (Up to 17 Dec 2016)	09-12-16	05-01-17	21 days																		
6	Section 1	02-01-17	02-01-17	0 days																		
7	Section 2	31-12-16	31-12-16	0 days																		
8	Section 3	04-01-17	04-01-17	0 days																		
9	Section 4	05-01-17	05-01-17	0 days																		
10	Section 5 - Section 9	09-12-16	09-12-16	0 days																		
11	Anticipated completion Date	22-02-17	31-08-17	135 days																		
12	Section 1-4	31-07-17	31-07-17	0 days																		
13	Section 5 - 7 & 9	31-08-17	31-08-17	0 days																		
14	Section 8	22-02-17	22-02-17	0 days																		
15	Preliminaries	18-12-13	25-08-17	994 days																		
16	Site Establishment	18-12-13	25-08-17	994 days																		
17	Mobilization and Temp Power / Water Supply Setup	18-12-13	17-01-14	30 edays																		
18	Installation of Temp TxRm & Temp Elect Connection	02-01-14	02-04-14	90 edays																		
19	Setup Temporary Container Site Office	18-12-13	25-12-13	7 edays																		
20	Design Drawing and Calculation of Site Office to CM Approval	27-12-13	22-02-14	45 edays																		
21	Setup Site Office	22-02-14	23-04-14	60 edays																		
22	Setup of Curing Rooms & STC Office	18-12-13	17-01-14	30 edays																		
23	Preconstruction condition survey	18-12-13	17-01-14	30 edays																		
24	Submit Method Statement for New Covered Walk for CM Approval	24-12-13	21-02-14	45 edays																		
25	New Covered Walkway erection along the Northern Boundary	22-02-14	25-10-14	180 edays																		
26	Correctness Survey of Previous Works	18-12-13	25-12-13	7 edays																		
27	Submission & Approval of Method Statement of Tower Crane 1st Setup (Block 1, 3 & 4)	19-12-13	17-02-14	60 edays																		
28	Erection of Tower Cranes (Block 1, 3 and 4)	17-02-14	29-03-14	40 edays																		
29	Footing for Tower Cranes (Block 2)	25-03-14	14-04-14	13 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	17-03-17	25-04-17	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	05-09-16	07-10-16	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	30-06-17	21-07-17	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)	19-07-17	25-08-17	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																		

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014		2015			2016			2017				
					1st Quarter		4th Quarter		3rd Quarter			2nd Quarter			1st Quarter		4th Qua
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep
53	Submission of Technical Document	18-12-13	20-08-16	716 days													
225	Section 1 - Section 4 (Blk 1 to Blk 4)	09-01-14	31-07-17	959 days													
226	Timber Mock Up for the Kitchen & VPB & Approval	15-02-14	31-07-14	123 days													
227	Precast Element Fabrication	24-03-14	26-09-15	408 days													
228	Steel Mould Fabrication	24-03-14	20-11-14	177 days													
229	Fabrication of Mock-up Precast Elements	06-06-14	05-07-14	21 days													
230	Study Mock Up for the VPB & Trial Panel and Approval	07-07-14	05-11-14	90 days													
231	Mass Production of Precast Elements	30-10-14	26-09-15	250 days													
232	1st Delivery of P.C. Elements	01-11-14	01-11-14	0 days													
233	Latest issuance date of R.C. details R/F slab & UR/F	17-06-14	17-06-14	0 days													
234	RC Structure	09-01-14	31-07-17	959 days													
235	Domestic Blocks	09-01-14	18-06-16	660 days													
236	Block 1	09-01-14	13-06-16	655 days													
237	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days													
238	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days													
239	Water Test for Drainage Works	28-03-14	13-05-14	30 days													
240	Construction of Precast Water Tank	26-04-14	06-06-14	33 days													
241	Installation of P.C. Water Tank	01-09-14	13-09-14	10 days													
242	G/F - 1/F slab	26-05-14	19-09-14	82 days													
243	1/F - Level 16.75 (Transfer Structure)	09-08-14	13-11-14	74 days													
244	Level 16.75 - 2/F slab	31-10-14	03-12-14	29 days													
245	2/F to 3/F Slab	26-11-14	19-01-15	43 days													
246	3/F to 4/F Slab	09-01-15	13-02-15	30 days													
247	4/F to 5/F Slab	04-02-15	10-03-15	25 days													
248	5/F to 6/F Slab	07-03-15	30-03-15	20 days													
249	6/F to 7/F Slab	27-03-15	17-04-15	15 days													
250	7/F to 8/F Slab	15-04-15	30-04-15	14 days													
251	8/F to 9/F Slab	06-05-15	27-05-15	14 days													
252	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	21-05-15	04-02-16	192 days													
283	39/F - Main Roof slab	02-02-16	24-02-16	16 days													
284	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	20-02-16	13-06-16	79 days													
285	Parapet Wall	22-02-16	15-04-16	40 days													
286	Lift Machine Room	20-02-16	27-04-16	50 days													
287	Water Tank	20-02-16	13-06-16	79 days													
288	Generator Room	25-02-16	04-05-16	50 days													
289	Block 2	09-01-14	16-05-16	638 days													
290	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days													
291	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days													
292	Water Test for Drainage Works	28-03-14	13-05-14	30 days													
293	Construction of Precast Water Tank	26-04-14	06-06-14	33 days													
294	Installation of P.C. Water Tank	27-08-14	06-09-14	10 days													
295	G/F - 1/F slab	29-05-14	13-09-14	75 days													
296	1/F - 2/F slab	03-09-14	07-11-14	52 days													
297	2/F - Level 22.10 (Transfer Structure)	06-11-14	06-02-15	76 days													
298	Level 22.10 - 3/F slab	27-01-15	25-02-15	21 days													
299	3/F to 4/F Slab	13-02-15	25-03-15	30 days													
300	4/F to 5/F Slab	17-03-15	13-04-15	20 days													
301	5/F to 6/F Slab	01-04-15	21-04-15	14 days													
302	6/F to 7/F Slab	18-04-15	02-05-15	12 days													
303	7/F to 8/F Slab	29-04-15	12-05-15	10 days													
304	8/F to 9/F Slab	13-05-15	28-05-15	10 days													
305	9/F to 10/F Slab	22-05-15	04-06-15	9 days													

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014		2015			2016			2017					
					1st Quarter		4th Quarter		3rd Quarter		2nd Quarter		1st Quarter		4th Qua			
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	
758	Issue Drawings for Fitting-out of Wet Market (SI - A053)	17-12-14	17-12-14	0 days														
759	Wet & Dry Stall Installation	29-10-16	14-06-17	170 days														
760	GMS Bulkhead & Signage Installation	21-12-16	26-07-17	155 days														
761	Associated Building Services Installation	25-11-16	07-04-17	100 days														
762	Inspection & Handover	27-07-17	24-08-17	21 days														
763	Section 7 - Estate Road, EVA, Carriageway & Basement Car park	25-08-14	25-08-17	813 days														
764	Basement car park	25-08-14	21-08-17	809 days														
765	RC structure	25-08-14	21-03-17	701 days														
766	Pipe pile installation & grout curtain	25-08-14	21-01-15	120 days														
767	Pumping test and report submission	22-01-15	07-02-15	15 days														
768	Submit as-built record to CM for Approval	09-02-15	11-03-15	22 days														
769	Submit ICU14 & Obtain CM's Approval for Bulk Excavation Work	11-03-15	02-04-15	22 edays														
770	ELS for the footing/Plate Load Test	07-04-15	07-09-15	109 days														
771	Submit as-built ELS record to CM	22-08-15	07-09-15	12 days														
772	Obtain consent for footing construction	05-08-15	07-09-15	24 days														
773	Footing construction	08-09-15	27-11-15	65 days														
774	Footing - G/F construction	13-11-15	25-05-16	143 days														
775	Dismantling of ELSW	14-10-15	01-06-16	173 days														
776	Waterproofing / Underground Drainage / On Grade Slab	02-06-16	27-02-17	200 days														
777	Link Bridge	29-12-16	21-03-17	60 days														
778	Green Platform	29-12-16	14-03-17	55 days														
779	Finishes & building services	10-02-17	21-08-17	136 days														
780	Car park wall & ceiling finishes	28-02-17	12-06-17	74 days														
781	Building services & plant rooms installation	10-02-17	05-05-17	60 days														
782	Car park floor finishes	16-05-17	12-07-17	42 days														
783	Elevated walkway, bicycle parking & planter finishes	16-05-17	21-08-17	70 days														
784	Painting works & signage	16-05-17	07-08-17	60 days														
785	Building services installation	09-03-17	06-07-17	85 days														
786	Builder's works & BS installation in Fan Rm,FS Pump rm,Sump Pit Rm & Switch Rm	09-03-17	26-04-17	35 days														
787	Make Available the Fan Room to NSC	26-04-17	26-04-17	0 days														
788	Air Exhaust System Installation	27-04-17	06-07-17	50 days														
789	Make Available the Pump & Sump Pit Room to NSC	05-05-17	05-05-17	0 days														
790	FS pipe & water pump installation	08-05-17	04-07-17	42 days														
791	Make Available the Switch Room to NSC	26-04-17	26-04-17	0 days														
792	E & M installation	27-04-17	06-07-17	50 days														
793	Estate Road, EVA & Carriageway	10-04-15	25-08-17	633 days														
794	Issuance of U/G drainage & Utilities/run-in Connections location to Road L16	10-04-15	10-04-15	0 days														
795	Make Available to Electrical sub-contractor the underground cable ducts and draw pits	03-05-17	03-05-17	0 days														
796	Make available to the Town Gas Co. the area along the external underground route	02-06-17	02-06-17	0 days														
797	Make available to the FTNS the area along the external underground route	03-04-17	03-04-17	0 days														
798	Underground Drainage & Utilities Installation (Details to be submitted separately)	15-10-15	02-06-17	440 days														
799	EVA	06-02-17	30-06-17	104 days														
800	Paving works	05-06-17	25-08-17	60 days														
801	External furniture	05-06-17	25-08-17	60 days														
802	Signage & Road marking	05-05-17	24-08-17	80 days														
803	CCTV for U/G Drainage System	05-06-17	25-08-17	60 days														
804	Section 8 - Temporary Sewage Pumping Station including Rising Mains	25-11-14	22-02-17	608 days														
805	Submit the EO to CM and EPD Approval	25-11-14	25-11-14	0 days														
806	Rising Mains for Sewage Pumping	15-08-16	13-10-16	46 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 (more than 2 months)	14-10-16	22-02-17	104 days														
809	Section 9 - Remaining Works	20-08-15	22-08-17	539 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	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
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.190	0.000
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.640	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.420	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.600	0.000
Grand Total	287888%	0%	0%	0%	287888%	0%	0%	0%	0%	18015%	0%

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	Expired, as replaced by GW-RS0010-17
GW-RS0010-17	Entire Site of the Contract (include TSPS)	29 Jan 2017	28 Jun 2017	Expired, as replaced by GW-RS0489-17
GWORS0489-17	Entire Site of the Contract (include TSPS)	29 Jun 2017	28 December 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
32 nd Reporting Month (1 June 2017 – 30 June 2017)	0	0	0
Cumulative Statistics (19 Nov 2014 – 30 June 2017)	0	0	0