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10 Feb 2023

Dear Mr. Wong

Contract No. CM 4/2017 Independent Environmental Checker for Construction of Dry Weather Flow Interceptor at Cherry Street Box Culvert Submission of Monthly Environmental Audit Report No.61

In accordance with Clause 2.1 of the Environmental Permit for Proposed Sewage Pumping Station and Dry Weather Flow Interceptor at Cherry Street Box Culvert (No. EP-523/2016), we are pleased to submit herewith four hard copies and one electronic copy of the Monthly Environmental Audit Report No.61 for your perusal.

If you require any further information, please do not hesitate to contact the undersigned.

Yours sincerely

Franki Chiu

Independent Environmental Checker

Enc

cc. DSD

Black & Veatch Hong Kong Limited CMGC-TECEL Joint Venture

Mr. Jason Cheung (one hardcopy) Mr. Quentin Yau (one hardcopy) Mr. Benson Yau (one hardcopy)

Drainage Services Department

Contract No. CM 4/2017 Independent Environmental Checker for Construction of Dry Weather Flow Interceptor at Cherry Street Box Culvert

Monthly Environmental Audit Report No.61 (Jan 2023)

Month Environmental Audit Report

First version | Jan 2023

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 258952

Ove Arup & Partners Hong Kong Ltd Level 5 Festival Walk 80 Tat Chee Avenue Kowloon Tong Kowloon Hong Kong www.arup.com



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1 INTRODUCTION

1.1 Background

The existing Cherry Street Box Culvert (CSBC) is a reinforced concrete 8-cell stormwater box culvert; each cell is 4.8 m wide and 3.5 m high. The CSBC collects run-off from three upstream box culverts underneath Palm Street, Cheung Wong Road and a section of West Kowloon Corridor West and ultimately discharges into the New Yau Ma Tei Typhoon Shelter (NYMTTS).

At present, the water quality at NYMTTS and the odour associated with it remains unsatisfactory. It is believed that polluted flow, including those from the expedient connections, cross-connections between the foul water sewerage and the stormwater drainage system in the area found their way into the CSBC and in turn discharges into NYMTTS. Measures have to be taken to improve the present conditions at the CSBC.

In 2010, Environmental Protection Department (EPD) completed a West Kowloon and Tsuen Wan Sewerage Master Plans Study Review and recommended to construct a dry weather flow interceptor (DWFI) at the outfall of the CSBC. Upon commissioning of the DWFI system, the intercepted flow would be discharged to the existing sewerage system via proposed discharge sewerage.

The proposed DWFI system will comprise construction of a DWFI at the CSBC to intercept the dry weather flow (DWF) inside the box culvert and construction of a sewage pumping station to pump the intercepted DWF to the existing sewerage network via proposed twin rising mains.

The Project titled "Construction of dry weather flow interceptor at Cherry Street box culvert" mainly comprises the construction of (i) an underground DWFI with automatic penstocks at CSBC; (ii) a pumping station; (iii) an underground stormwater bypass box culvert; and (iv) about 270 metres of underground twin rising main from the pumping station in (ii) above to an existing sewer at Lin Cheung Road. The Project will be implemented under PWP Item No. 4380DS. The Project location is shown in **Figure 1**.

The Project is classified as a designated project under item F.3(b) (i), Part 1 of the Schedule 2 of the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO), since the proposed sewage pumping station has an installed capacity (average dry weather flow) of more than 2,000m³ per day and its boundary is less than 150 m from an existing residential area.

A project profile (Register No. PP-527/2015) ("Project Profile") entitled "Proposed Sewage Pumping Station and Dry Weather Flow Interceptor at Cherry Street Box Culvert" was submitted to Environmental Protection Department (EPD) under Application No. DIR241/2015. Permission to apply directly for environmental permit was granted by EPD in September 2015. An Environmental Permit (EP-

523/2016) ("EP") to construct and operate the Designated Project was issued to Drainage Services Department (DSD) on 23 December 2016.

According to the EP, DSD shall employ an Independent Environmental Checker ("IEC") to audit the implementation of all mitigation measures recommended in the Project Profile and required under the EP, and certify in writing in the monthly audit report full implementation of the mitigation measures during the construction phase of the Project

Arup was commissioned by DSD as the IEC in accordance with the conditions stipulated in the EP (EP-523/2016) for a period of 64 months from 8 January 2018.

1.2 Scope of the Assignment

Scope of work of this Assignment includes:

- (i) Provide the continual services of an IEC as stipulated in the Project Profile and the EP and reporting the findings to the Employer and the Engineer. The role of the IEC shall be independent from the Contractors;
- (ii) Conduct monthly site audits on the implementation of all mitigation measures recommended in the Project Profile and the EP and reporting the findings to the Employer and the Engineer;
- (iii) Advise the Engineer and the Employer on environmental issues related to the implementation of environmental mitigation measures under Contract No. DC/2017/01;
- (iv) Provide comments on the environmental aspects of the works programme, method statements and other relevant submissions by the Contractors;
- (v) Attend the monthly Site Safety and Environmental Management Committee (SSEMC) meetings;
- (vi) Report the findings of the site inspection and other environmental performance reviews to the Engineer and the Employer; and
- (vii) Submit monthly audit reports to EPD and confirming in writing in the report full implementation of the mitigation measures as recommended in the Project Profile and EP during and upon completion of the construction works under Contract No. DC/2017/01.

2 Project Organization

2.1 Project Organization and Management Structure

The project organization and contacts of key personnel of the Project are shown in **Appendix A**.

3 Concise Overview of Assignment Period

3.1 Construction Activities in the Reporting Period

The construction activities carried out by the Contractor during the reporting period included the following:

Defect rectification works was in progress.

The environmental performance was considered acceptable during the assignment period from 1 Jan 2023 to 31 Jan 2023.

4 Status on Implementation of Environmental Mitigation Measures

The potential environmental impacts and proposed mitigation measures to be incorporated into the design and construction of the Project are summarised in **Table 4.1** below.

Table 4.1 Summary of potential environmental impacts and proposed environmental mitigation measures

Mitigation Measures	Implementation Agent	Status
Dust nuisance		
1. Adopt dust control and suppression measures as stipulated in the Air Pollution Control (Construction Dust) Regulation.		Implemented
2. Water spraying on exposed area and during excavation.	Contractor (Construction Phase)	Implemented
3. Provide wheel-washing facilities.		Implemented
Cover stockpile of dusty materials by impervious sheets.		Implemented

Mitigation Measures	Implementation Agent	Status
5. Provide hoarding of not less than 2.4m high from ground level along the site boundary adjoining Hoi Fai Road.	V	N/A due to site constraint. (Contractor will increase the watering frequency as mitigation measures.)
6. Cover dusty load on trucks before they leave the construction site.		Implemented
7. Avoid concurrent excavation activities for construction of underground DWFI, underground emergency stormwater bypass culvert and CSBCSPS.		Implemented
8. Minimize area involving dusty construction activities by arrangement of construction activities and methods.		Implemented
Odour 1. Locate the inlet chamber, screen chamber, valve chamber and wet well of the sewage pumping station underground and enclose them by a reinforced concrete structure.	Contractor	Implemented
2. Install and properly maintain a deodorizer with a forced ventilation system and an odour removal efficiency of at least 99.5%.	forced ventilation system and an removal efficiency of at least Phase)	
Water Quality		
1. Control construction surface run-off according to ProPECC PN1/94, EPD's Practice Note for Professional Persons, Construction Site Drainage.		Implemented
2. All chemical tanks and storage areas will be provided with locks and placed on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank.	Contractor (Construction Phase)	Implemented

Mitigation Measures	Implementation Agent	Status
3. Install and properly maintain a standby pump and dual power supply.	Contractor (Construction	Implemented
4. Provide a telemetry system to transmit signals showing irregularity or operational problem of the sewage pumping station and the dry weather flow interceptor to the Stonecutters Island Sewage Treatment Works.	Phase) DSD (Operational Phase)	N/A for the reporting month and shall be implemented in the later months
Noise		
Adoption of standard control measures such as adopting quiet mechanical equipment, temporary noise barriers and good site practices etc.		Implemented
Construction Noise Permit is required for construction work during restricted hours as defined under the Noise Control Ordinance.	Contractor	Implemented
3. Locate the pumps and screening facilities of the sewage pumping station underground and enclose them by a reinforced concrete structure.	(Construction Phase)	Implemented
Install all outlets of the extraction fans with acoustic louvers.		Implemented
Waste Management		
Standard waste management measures and good site practices in waste handling, disposal and transportation will be implemented.	Contractor (Construction Phase)	Implemented

Mitigation Measures	Implementation Agent	Status
2. The Contractor will be required to sort all C&D materials and general refuse into different categories for reuse on site, recycling and disposal at designated public fill reception facilities or landfills. Disposal of C&D materials will be managed through the trip-ticket system as stipulated in DEVB TC(W) No. 6/2010.		Implemented
3. All chemical wastes due to maintenance of equipment will be handled, stored and disposed of in accordance with the requirements of the Waste Disposal (Chemical Waste) (Chemical) Regulation.		Implemented
4. General refuse will be stored and disposed of separately from general construction waste and chemical waste. The storage bins for general refuse will be provided with lids, which should be kept closed to avoid odour nuisance and windblown litter. General refuse will be removed regularly and disposed of to landfills.		Implemented
Landscape and Visual		
Erect site hoarding with decorative features that are compatible with the surrounding environment;		Implemented
2. Maintain site cleanliness and tidiness;		Implemented
3. Properly manage construction waste in the works area;		Implemented
Reinstate all temporary works areas to its original conditions upon completion of works.	Contractor (Construction Phase) DSD (Operational Phase)	N/A for the reporting month and shall be implemented in the later months
5. Implement and properly maintain the landscape and visual mitigation measures (e.g. rooftop greening, grasscrete, paving lock, vertical greening, permanent shrub planter, removable shrub planter, bench with shelter, and removable planter with trees) as shown in Figure 2 of the EP.		N/A for the reporting month and shall be implemented in the later months

5 Major Accomplishment

5.1 Deliverables

Deliverables completed in the reporting period are summarised in **Table 5.1**.

Table 5.1 Completed deliverables

Description	Submitted by IEC
Monthly Environmental Audit Report No. 60	10 Jan 2023
(Dec 2022)	

Planned deliverables to be completed in the coming reporting period is summarised in **Table 5.2**.

Table 5.2 Planned deliverables

Description	Planned Submission Date	Status	
Monthly Environmental Audit Report No. 61 (Jan 2023)	10 Feb 2023	On schedule	

5.2 Meetings

No meeting was held in the reporting month.

5.3 Summary of Work Done

Upon commencement of the Assignment, accumulated numbers of IEC monthly environmental audit report submission and various kinds of meetings are summarized in **Table 5.3**.

Table 5.3 Summary of work done

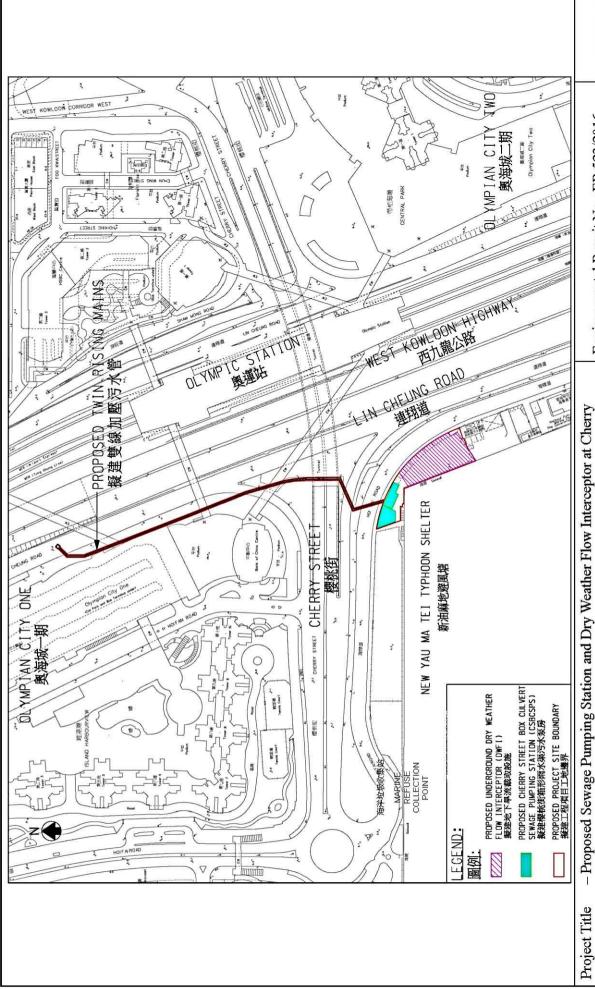
Work	Number
Reports	
IEC Monthly Environmental Audit Report	61
Meeting	
IEC monthly site inspection with DSD, Engineer Representative and Contractor	57
Project related meeting with DSD and EPD	1

5.4 IEC Site Audit

IEC site audit was conducted on 20 Jan 2023 with the presence of DSD, Resident Site Engineer, Contractor and IEC. No major site defect was observed in the reporting month. The IEC site audit checklist is given in Appendix B.

Figure 1

Project Location





Environmental Permit No.: EP-523/2016

環境許可證編號: EP-523/2016

Project Location Plan 工程項目位置圖 Figure 1 圖 1

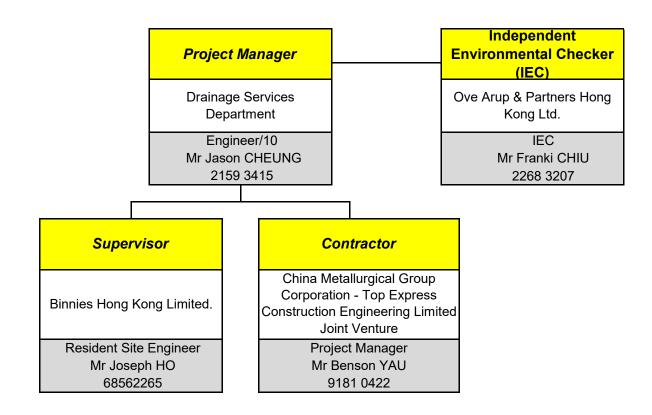
- 櫻桃街箱形雨水渠擬建污水泵房及旱流截取設施

Street Box Culvert

工程項目名稱

Appendix A

Project Organization and Contacts of Key Personnel



———Contractual Relationship

Appendix B

IEC Site Audit Checklist

Construction of Dry Weather Flow Interceptor at Cherry Street Box Culvert Independent Environmental Checker Environmental Site Inspection Checklist



	Ref. No.					-						
	Project	Construction of dry weather flow interceptor		eptor	IEC	0	ve Arui	& Partne	ers Hon	a Kona	Ltd.	
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8	Are these tempor						1					
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9b 10	la aika mumaff maa	traps and baffles?				<u> </u>		₽. 5				
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Construction of Dry Weather Flow Interceptor at Cherry Street Box Culvert Independent Environmental Checker Environmental Site Inspection Checklist



No.	Part V Waste Management a	nd Contamination	N/A N/O	Yes Rd	r Obs N/C	Photos / Remarks
1a	General refuse: Is accumulation as	oided?				
1b	Is receptacles (e.g	. rubbish bins) available?				
1c	is there regular an	d proper disposal?				
2a	Construction waste: Is there avoid	ance or minimization of construction	~ /	$\overline{\Box}$		
	waste genera	tion (e.g. use of steel formwork)?	7,			
2b	Is there on sit	e segregation as far as practicable	п⁄п			
	for reuse and	recycle?	7,			
2c	Is construction	n waste reused where practicable?	П			
2d		n waste disposed at public dumping		55		
	area or public	· · · · · · · · · · · · · · · · · · ·	, L			
2e	•	s available for inspection?	мл			
3a		designated storage area?	/-	5 5		
3b		nical waste/waste oil stored properly?				
3c		proper disposal?				
3d		tickets available for inspection?	V/			
3e		nical waste license available for				
56	înspecti		◘□			
40			_/_			
4a	Excavated material: Does excavated	material appear uncontaminated	Αı˙Π			
4b	(colour, odour)?	is suspected, is appropriate procedure	-/-			
40	followed?	is suspected, is appropriate procedure	M U			
4c		vailable for inspection?				
4с 5а	•	•	,			
5b	+ · · · · · · · · · · · · · · · · · · ·	ored in bunded area?				
		dequate (>110% of the largest tank)?	. /			
5c	Are storage areas sealed area?	provided with locks and located on	\mathbf{M}_{μ}			
6		esal of construction waste or excavated				
O	materials available for inspection?	sai of constituction waste of excavated	₩⊟	ᆸ .ᆸ		
7	•	nable matters in water of nearby drains	пп	ω/ _□	пп	
•	or sewer avoided?	nable matters in water or nearby drains	шШ	☑ ′ □		
	or sewer avoided:					
A1.	D. 430 Landanas Q.Visualiu	and Fallen	N/4 N/6	· 5.	01 11/0	
No.	Part VI Landscape & Visual In		,		r Obs N/C	
1	Is stripped top soil stored for re-use		,			
2	Are retained trees protected from da					
3	Are compensatory trees planted and	, , ,	M U			
4	For trees identified for transplant in		_/_			
4a		one allowed prior to transplant?				
4b		ned following transplant?				
5	Is night-time lighting controlled to mi	-	,			
6	Is the screen hoarding compatible w	ith the surrounding setting?	• ,			
7	Do the site clearance and tree felling	g works at the existing ardeid night roost	$\Delta \Box$			
	only be carried out at wintering seas	on (November to March inclusive)?	•			
	OII					
No.	Part VII Others		N/A N/O	Yes/ Rd	r Obs N/C	
1						
	on the Project site at all vehicular sit					
	a convenient location for public infor	mation all times?				

Part VIII Follow-up for the Pervious Site Audit

Construction of Dry Weather Flow Interceptor at Cherry Street Box Culvert Independent Environmental Checker Environmental Site Inspection Checklist

Part IX

Remarks

Rdr: Constructor was reminded to increase water spraying frequency and cover dusty materials while hourding is not anough 2.4 m tall.

Signatures

IEC's Representative

(Name: Lister TAM

Engineer's Representative

(Name: 725

Client's Representative

(Name:

Contractor's Representative

(Name: W-H, LOW)