



Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1)

Forty-first Quarterly EM&A Summary
Report

PREPARED FOR
OSCAR Bioenergy Joint Venture

DATE
8 December 2025

REFERENCE
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Meinhardt Infrastructure and Environment Limited

**Organic Resources Recovery Centre,
Phase I**

41st Quarterly EM&A Report
(1 Jun 2025 – 31 Aug 2025)

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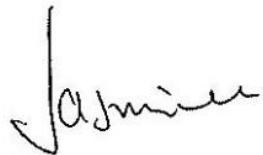
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Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1)

Forty-first Quarterly EM&A Summary Report 0279222



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EXECUTIVE SUMMARY

The construction works of **No. EP/SP/61/10 Organic Resources Recovery Centre Phase 1 (the Project)** commenced on 21 May 2015. This is the 41st Quarterly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 June 2025 to 31 August 2025 in accordance with the EM&A Manual.

ENVIRONMENTAL MONITORING AND AUDIT PROGRESS

AIR QUALITY MONITORING

Non-compliance of emission limits of VOC and Total Odour from CAPCS; NO_x and SO₂ from CHP1; NO_x from CHP2; ; NO_x and SO₂ from CHP3; and CO, NO_x, SO₂, VOC, NH₃, HCl and HF from the ASP were recorded during June 2025.

Non-compliance of emission limits of Total Odour from CAPCS; NO_x and SO₂ from CHP1; NO_x from CHP2; NO_x from CHP3; CO, NO_x, SO₂, VOC, NH₃, HCl and HF from ASP; and HF from Standby Flaring Gas Unit were recorded during July 2025.

Non-compliance of emission limits of Total Odour from CAPCS; NO_x from CHP1; NO_x from CHP2; NO_x from the CHP3; CO, NO_x, SO₂, VOC, NH₃ and HF from ASP and HF from Standby Flaring Gas Unit were recorded during August 2025.

Exceedances occurred due to stack sensor issues and system instability.

ENVIRONMENTAL EXCEEDANCE/ NON-CONFORMANCE/ COMPLIANT/ SUMMONS AND PROSECUTION

Exceedances for the air emission limits for the CAPCS, CHP, ASP stacks, and Standby Gas Flaring Unit were recorded during the reporting period.

No complaint was received during the reporting period.

1. PROJECT INFORMATION

1.1 BACKGROUND

The Organic Resources Recovery Centre (ORRC) Phase I development (hereinafter referred to as "the Project") is to design, construct and operate a biological treatment facility with a capacity of about 200 tonnes per day and convert source-separated organic waste from commercial and industrial sectors (mostly food waste) into compost and biogas.

ERM-Hong Kong, Ltd (ERM) has been appointed by OSCAR as the Environmental Team (ET) for the construction phase EM&A programme and the Monitoring Team (MT) for the operation phase EM&A programme for the implementation of the EM&A programme in accordance with the requirements of the EP and the approved EM&A Manual.

1.2 GENERAL SITE DESCRIPTION

The Project Site is located at Siu Ho Wan in North Lantau with an area of about 2 hectares. The facility received an average of 104.65 to 118.4 tonnes and treated an average of 83.43 to 94.02 tonnes of source separated organic waste per day during the reporting period.

1.2.1 MAJOR ACTIVITIES UNDERTAKEN

A summary of the major activities undertaken in the reporting period is shown in *Table 1.1*.

TABLE 1.1 SUMMARY OF ACTIVITIES UNDERTAKEN IN THE REPORTING PERIOD

Activities Undertaken in the Reporting Period				
<ul style="list-style-type: none"> Operation of the Project, including organic waste reception, operation of the pre-treatment facilities, anaerobic digesters, composting facilities, air pollution control systems, on-line emission monitoring system for the Centralised Air Pollution Control Unit (CAPCS), Co-generation Units (CHPs) and Ammonia Stripping Plant (ASP), and the wastewater treatment plant. 				

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS AND RESULTS

2.1 ENVIRONMENTAL MONITORING

2.1.1 AIR QUALITY

The concentrations of concerned air pollutants emitted from the stacks of the CAPCS, CHP, ASP and Standby Flaring Gas Unit during the reporting period are monitored on-line by the continuous environmental monitoring system (CEMS). The number of exceedances of the concerned air emissions monitored for the CAPCS, CHP, ASP and Standby Flaring Gas Unit during this reporting period are presented in *Tables 2.1 to 2.6*.

It should be noted that measurements recorded under abnormal operating conditions, e.g., start up and stopping of stacks and unstable operation, as well as test runs and interference of sensor, are disregarded.

TABLE 2.1 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CAPCS

Parameter	Range of Hourly Average Conc. (mg/Nm ³)	Emission Limit (mg/Nm ³)	Exceedance Identified	Remarks
VOCs (including methane) ^(a)	0 – 977	680	Identified ^(c)	Stack sensor issue
Dust (or TSP)	0 – 0	6	Nil	Nil
Odour (including NH ₃ & H ₂ S) ^(b)	0 – 1,635	220	Identified ^(d)	Stack sensor issue, system unstable (e.g., low efficiency)

Notes:

(a) The VOCs emission limit includes methane as biogas is adopted, as fuel in the combustion process.

(b) The odour unit is OU/Nm³.

(c) Dates with VOC exceedances (number of exceedances on that day) were identified on 13(2), 14(3), 18(6) and 20(1) June 2025.

(d) Dates with Total Odour exceedances (number of exceedances on that day) were identified on 25(4), 26(14) and 27(18) June 2025; 18(24), 19(24), 20(10), 21(5), 22(16), 23(15), 24(17), 25(17), 26(7), 27(2) and 30(1) July 2025; and 1(2), 3(6), 8(13), 9(16), 10(7), 11(2), 13(8), 14(8), 15(14), 16(15), 18(2), 19(4), 20(8), 21(4), 22(14), 23(14), 24(20), 25(10), 26(6), 27(2), 28(9), 29(11), 30(6) and 31(8) August 2025.

TABLE 2.2 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 1

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedance Identified	Remarks
Dust (or TSP)	0 – 11	15	Nil	Nil
Carbon Monoxide	0 – 94	650	Nil	Nil
NO _x	0 – 516	300	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 – 54	50	Identified ^(d)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 – 576	1,500	Nil	Nil
HCl	0 – 5	10	Nil	Nil
HF	0 – 1	1	Nil	Nil

Notes:

(a) All values refer to an oxygen content in the exhaust gas of 6% and dry basis.

(b) The VOCs emission limit includes methane as biogas is adopted as fuel in the combustion process.

(c) Dates with NO_x exceedances (number of exceedances on that day) were identified on 1(11), 2(19), 3(3), 6(1), 7(24), 8(18), 9(10), 10(15), 11(21), 12(16), 13(3), 14(7), 15(7), 16(5), 17(8), 19(4), 20(8), 21(1), 27(3), 28(17), 29(24) and 30(14) June 2025; 1(3), 2(7), 3(24), 4(21), 5(11), 6(2), 7(7), 8(24), 9(9), 10(11), 11(13), 12(24), 13(24), 14(21), 15(24), 16(24), 17(24), 18(24), 19(24), 20(4), 22(2), 23(13), 24(20), 25(2), 26(5), 27(4), 28(4), 29(7), 30(2) and 31(9) July 2025; and 1(5), 4(5),

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedance Identified	Remarks
	5(3), 7(7), 8(20), 9(16), 10(18), 11(24), 12(19), 13(21), 14(7), 15(18), 16(24), 17(24), 18(24), 19(8), 20(12), 21(4), 22(1), 23(7), 24(5), 25(11), 26(8), 27(11), 28(7), 29(6), 30(15) and 31(18) August 2025.			
(d)	Dates with SO ₂ exceedances (number of exceedance on that day) were identified on 19(1) June 2025 and 18(1) July 2025.			

TABLE 2.3 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 2

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedance Identified	Remarks
Dust (or TSP)	0 – 7	15	Nil	Nil
Carbon Monoxide	0 – 650	650	Nil	Nil
NO _x	0 – 468	300	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 – 24	50	Nil	Nil
VOCs (including methane) ^(b)	0 – 1,370	1,500	Nil	Nil
HCl	0 – 9	10	Nil	Nil
HF	0 – 1	1	Nil	Nil

Notes:

(a) All values refer to an oxygen content in the exhaust gas of 6% and dry basis.
 (b) The VOCs emission limit includes methane as biogas is adopted as fuel in the combustion process.
 (c) Dates with NO_x exceedances (number of exceedances on the day) were identified on 8(7), 9(16), 10(14), 11(6) and 20(2) June 2025; 1(6), 2(13), 22(1), 27(6) and 28(6) July 2025; and 13(1), 14(6), 15(4) and 27(1) August 2025.

TABLE 2.4 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 3

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedances Identified	Remarks
Dust (or TSP)	0 – 13	15	Nil	Nil
Carbon Monoxide	0 – 388	650	Nil	Nil
NO _x	0 – 613	300	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 – 77	50	Identified ^(d)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 – 947	1,500	Nil	Nil
HCl	0 – 7	10	Nil	Nil
HF	0 – 1	1	Nil	Nil

Notes:

(a) All values refer to an oxygen content in the exhaust gas of 6% and dry basis.
 (b) The VOCs emission limit includes methane as biogas is adopted as fuel in the combustion process.
 (c) Dates with NO_x exceedances (number of exceedances on the day) were identified on 1(12), 2(16), 3(19), 4(21), 5(17), 6(13), 12(4), 13(18), 14(18), 15(22), 16(17), 17(15), 18(15), 19(15), 20(9), 21(23), 22(24), 23(21), 24(19), 25(24), 26(20), 27(18), 28(8), 29(1) and 30(6) June 2025; 1(18), 2(17), 3(13), 4(3), 5(20), 6(23), 7(8), 8(1), 12(9), 13(6), 17(1), 18(2), 19(3), 22(7), 23(11), 24(10), 25(23), 26(21), 27(20), 28(20), 29(15), 30(9) and 31(6) July 2025; and 1(2), 2(18), 3(22), 4(6), 5(7), 6(19), 7(16), 9(5), 10(4), 11(7), 12(15), 13(18), 15(8), 16(8), 17(11), 18(16), 19(21), 20(23), 21(24), 22(21), 23(22), 24(24), 25(24), 26(23), 27(19), 28(24), 29(9), 30(24) and 31(23) August 2025.
 (d) Date with SO₂ exceedances (number of exceedances on the day) was identified on 18(2) June 2025.

TABLE 2.5 HOURLY AVERAGE OF PARAMETERS RECORDED FOR ASP

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedances Identified	Remarks
Dust (or TSP)	0 – 5	5	Nil	Nil
Carbon Monoxide	0 – 1,543	100	Identified ^(c)	System unstable (e.g., low efficiency)
NO _x	0 – 1,179	200	Identified ^(d)	System unstable (e.g., low efficiency)
SO ₂	0 – 276	50	Identified ^(e)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 – 3,415	20	Identified ^(f)	System unstable (e.g., low efficiency)
NH ₃	0 – 193	35	Identified ^(g)	System unstable (e.g., low efficiency)
HCl	0 – 24	10	Identified ^(h)	System unstable (e.g., low efficiency)
HF	0 – 5	1	Identified ⁽ⁱ⁾	System unstable (e.g., low efficiency)

Notes:

(a) All values refer to an oxygen content in the exhaust gas of 11% and dry basis.
 (b) The VOCs emission limit include methane as biogas is adopted as fuel in the combustion process.

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedances Identified	Remarks
(c)	Dates with CO exceedances (number of exceedances on the day) were identified on 4(1), 5(1), 6(6), 7(5), 8(1), 10(4), 11(6), 12(3), 13(5), 14(4), 15(9), 16(4), 17(4), 18(1), 19(1), 21(3), 28(4) and 29(3) June 2025; 1(2), 2(5), 3(6), 4(2), 5(5), 6(5), 7(1), 10(1), 12(1), 14(2), 17(2), 18(3), 19(4), 20(2), 23(2) and 24(3) July 2025; and 12(1), 21(1), 22(1), 23(1), 27(1) and 29(1) August 2025.			
(d)	Dates with NO _x exceedances (number of exceedances on the day) were identified on 1(24), 2(23), 3(21), 4(9), 5(2), 6(18), 7(11), 8(9), 9(10), 10(14), 11(16), 12(22), 13(19), 14(19), 15(16), 16(18), 17(12), 18(23), 19(21), 20(16), 21(24), 22(24), 23(24), 24(18), 25(24), 26(21), 27(14), 28(23), 29(17) and 30(24) June; 1(24), 2(24), 3(24), 4(19), 5(23), 6(23), 7(22), 8(10), 9(20), 10(14), 11(19), 12(24), 13(22), 14(15), 15(19), 16(24), 17(22), 18(24), 19(23), 20(21), 21(5), 22(18), 23(23), 24(23), 25(23), 26(22), 27(17), 28(23), 29(22), 30(10) and 31(17) July 2025; and 1(23), 2(24), 3(22), 4(24), 5(16), 6(14), 7(16), 8(24), 9(24), 10(16), 11(17), 12(22), 13(21), 14(22), 15(24), 16(10), 17(24), 18(24), 19(12), 20(5), 21(10), 22(9), 23(15), 24(9), 25(19), 26(24), 27(19), 28(8), 29(14), 30(21) and 31(5) August 2025.			
(e)	Dates with SO ₂ exceedances (number of exceedances on the day) were identified on 4(1), 6(4), 10(2), 11(1), 12(3), 14(2), 15(5), 17(3), 18(17), 19(15), 20(3), 22(1), 28(1) and 29(1) June 2025; 1(1), 2(5), 3(5), 4(1), 5(2), 6(3), 7(1), 9(1), 10(2), 17(1), 18(15), 19(13), 20(1), 22(4), 23(2) and 24(1) July 2025; and 21(1), 22(1) and 23(1) August 2025.			
(f)	Dates with VOC exceedances (number of exceedances on the day) were identified on 4(1), 5(1), 6(6), 7(6), 8(2), 10(6), 11(6), 12(3), 13(6), 14(4), 15(9), 16(6), 17(7), 18(2), 19(3), 21(3), 24(1), 28(4) and 29(4) June 2025; 1(2), 2(7), 3(6), 4(3), 5(5), 6(5), 7(1), 10(1), 11(2), 12(1), 14(2), 16(1), 17(2), 18(3), 19(4), 20(2), 21(1), 23(2) and 24(3) July 2025; and 11(2), 12(1), 21(1), 22(1), 23(1), 27(1) and 29(1) August 2025.			
(g)	Dates with NH ₃ exceedances (number of exceedances on the day) were identified on 4(1), 5(2), 6(8), 7(10), 8(7), 9(4), 10(13), 11(12), 12(6), 13(8), 14(6), 15(13), 16(9), 17(8), 18(1), 19(8), 20(2), 21(4), 24(4), 25(1), 26(2), 27(1), 28(12) and 29(7) June 2025; 1(1), 2(11), 3(11), 4(6), 5(11), 6(6), 7(3), 8(1), 11(6), 12(1), 13(1), 14(5), 17(2), 18(2), 19(13), 20(3), 23(2), 24(2), 25(1), 26(1) and 31(8) July 2025; and 6(3), 12(2), 16(6), 21(1), 22(2), 23(2), 27(1), 29(2) and 31(5) August 2025.			
(h)	Dates with HCl exceedances (number of exceedances on the day) were identified on 6(2), 10(1), 11(1), 12(1), 14(1), 15(4) and 17(1) June 2025; 3(2), 5(2), 7(1), 17(1), 19(1) and 24(1) July 2025.			
(i)	Dates with HF exceedances (number of exceedances on the day) were identified on 6(16), 7(1), 8(1), 9(1), 10(5), 11(4), 12(2), 13(1), 14(2), 15(7), 16(3), 17(3), 20(1), 27(1), 28(2) and 29(1) June 2025; 1(1), 2(2), 3(4), 4(1), 5(5), 6(4), 7(1), 11(1), 14(6), 15(1), 16(1), 17(1), 18(2), 19(9), 20(3), 22(5), 23(1), 24(7), 27(2), 28(1) and 31(4) July 2025; and 1(3), 3(2), 5(1), 6(1), 12(1), 14(2), 16(2), 21(1) and 23(1) and 29(1) August 2025.			

TABLE 2.6 HOURLY AVERAGE OF PARAMETERS RECORDED FOR THE STANDBY FLARING GAS UNIT

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedances Identified	Remarks
Dust (or TSP)	0 – 0	5	Nil	Nil
Carbon Monoxide	0 – 10	100	Nil	Nil
NO _x	0 – 20	200	Nil	Nil
SO ₂	0 – 15	50	Nil	Nil
VOCs (including methane) ^(b)	0 – 13	20	Nil	Nil
HCl	0 – 0	10	Nil	Nil
HF	0 – 3	1	Identified ^(c)	System unstable (e.g., low efficiency)

Notes:

- (a) All values refer to an oxygen content in the exhaust gas of 11% and dry basis.
- (b) The VOCs emission limit include methane as biogas is adopted as fuel in the combustion process.
- (c) Dates with HF exceedances (number of exceedances on that day) were identified on 18(2) July 2025 and 10(1) and 27(1) August 2025.

2.1.2 ODOUR

Odour patrols were conducted by the independent odour patrol team of ALS Technichem (HK) Pty Ltd on 15 July 2025, 28 July 2025 and 7 August 2025.

2.2 SITE AUDIT

Environmental mitigation measures (related to air quality, water quality, waste, land contamination, hazard-to-life, and landscape and visual) to be implemented during the operation phase of the Project are recommended in the approved EIA Report and EM&A Manual. Monthly site audits for June 2025 to August 2025 have been carried out to check the implementation of these mitigation measures. Follow-up actions resulting from the site audits were generally taken as reported by the Contractor. The Contractor has implemented environmental mitigation measures recommended in the approved EIA Report and EM&A Manual.

2.3 LANDSCAPE AND VISUAL

The monthly inspections of the landscape and visual mitigation measures for the operation phase of the Project were performed on 17 June 2025, 29 July 2025 and 26 August 2025, and no non-compliance in relation to the landscape and visual mitigation measures were identified.

2.4 WASTE MANAGEMENT

Wastes generated from the operation of the Project include chemical waste, wastes generated from pre-treatment process and general refuse. The quantities of different types of waste generated from the operation of the Project in the reporting period are summarised in *Table 2.7*.

TABLE 2.7 QUANTITIES OF WASTE GENERATED FROM THE OPERATION OF THE PROJECT

Month / Year	Chemical Waste	Waste Generated from Pre-treatment Process		General Refuse	
		Disposed of at CWTC	Disposed of at Landfill ^(a)	Recycled ^(b)	Disposed of at Landfill ^{(a) (e)}
June 2025	16,020 L ^(d)	641.69 tonnes	0 tonnes	2.880 tonnes ^(e)	0.030 tonnes
July 2025	8,000 L ^(d)	657.84 tonnes	0 tonnes	2.995 tonnes ^(e)	0.027 tonnes
August 2025	0 L ^(d)	755.72 tonnes	0 tonnes	2.995 tonnes ^(e)	0.031 tonnes

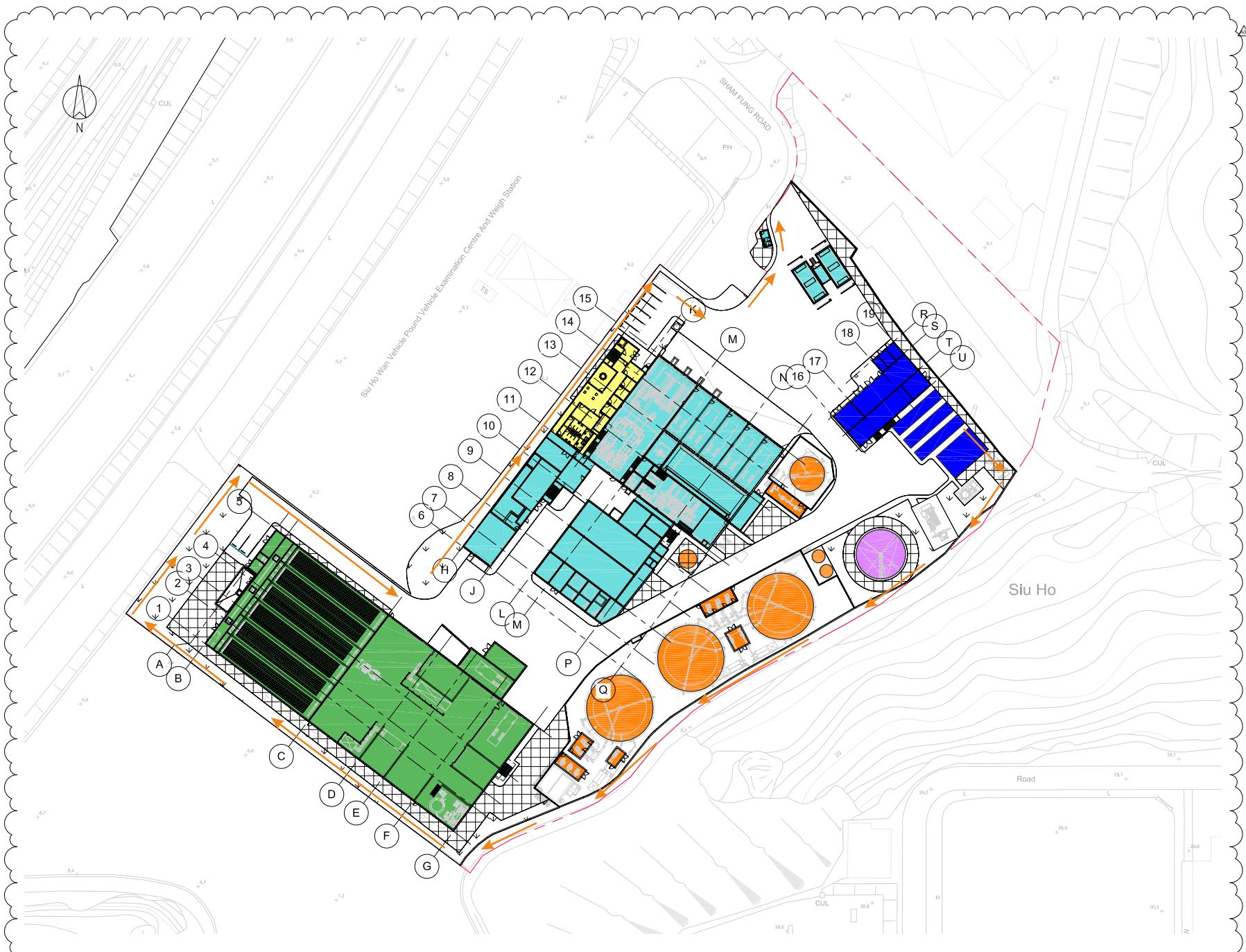
Notes:

- (a) Waste generated from pre-treatment process and general refuse other than chemical waste and recyclables were disposed of at NENT landfill by sub-contractors.
- (b) Among waste generated from pre-treatment process, no metals, papers/ cardboard packing or plastics were sent to recyclers for recycling during the reporting period.
- (c) Among general refuse, 0.08 tonnes of papers/ cardboard packing and 0.008 tonnes of plastics were sent to recyclers for recycling during the reporting period. No metals were sent to recyclers for recycling during the reporting period.
- (d) 16,020 L of chemical waste (16,000 L of unwanted flocculation agent and 20 L of spent acid) were disposed of at CWTC in June 2025; 8,000 L of chemical waste (8,000 L of unwanted flocculation agent) were disposed of at CWTC in July 2025; and no chemical waste was disposed of at CWTC in August 2025.
- (e) It was assumed that four 240-litre bins filled with 80% of general refuse were collected at each collection. The general refuse density was assumed to be around 0.15 kg/L.



ANNEX A

PROJECT LAYOUT



Key

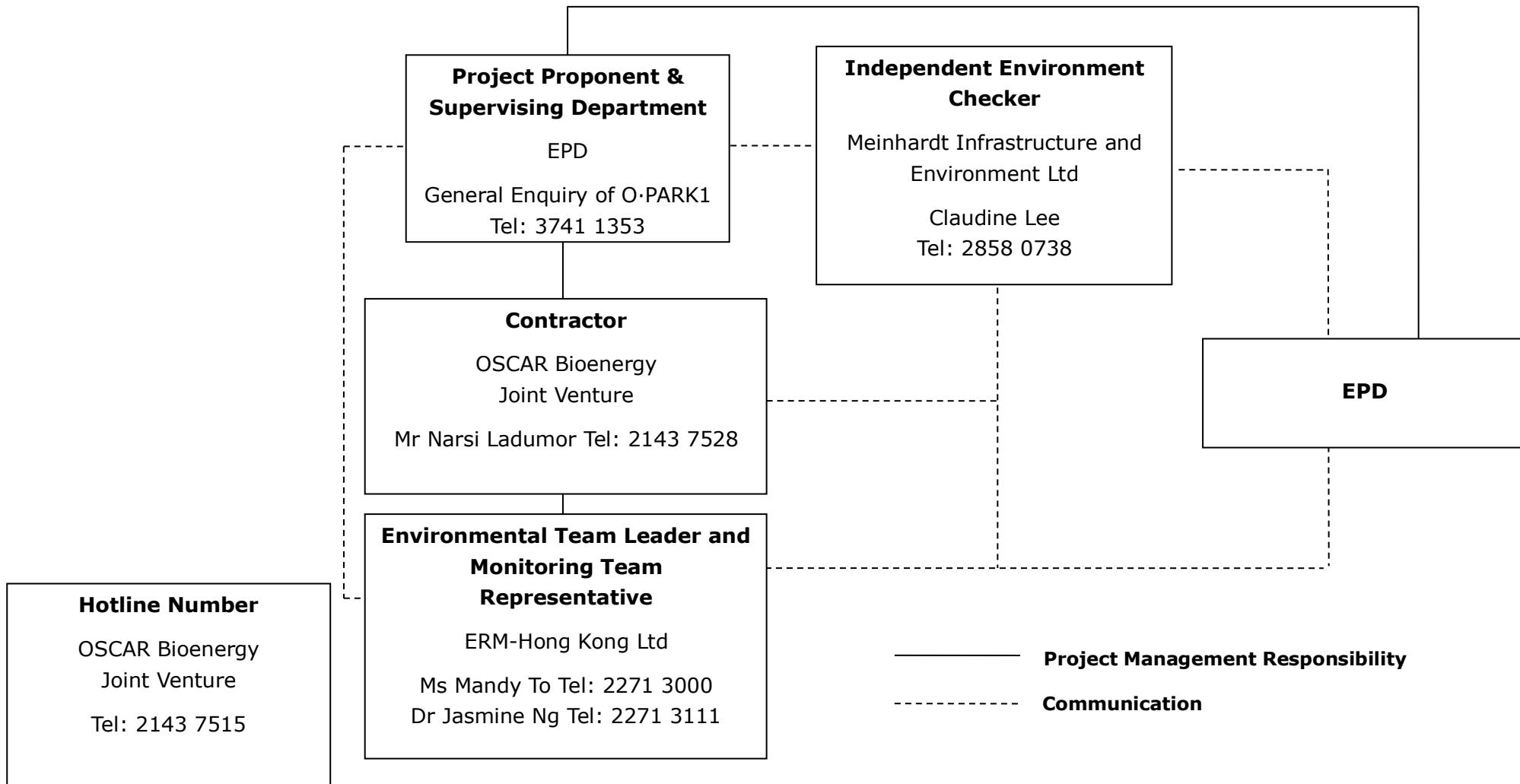
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REV	DATE	BY	APP	DESCRIPTION
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CONTRACTOR				
   OSCAR BIOENERGY JV				
LEAD DESIGNER				
 Ove Arup & Partners Hong Kong Limited				
ENVIRONMENTAL TEAM				
 ERM ERM HONG KONG LIMITED				
INDEPENDENT CONSULTANTS				
 Meinhardt Infrastructure and Environment Limited 漢高建業環保工程顧問有限公司				
PROJECT				
ORGANIC WASTE TREATMENT FACILITIES PHASE 1 EP/SP/61/10				
STATUS				
DRAWING TITLE				
SITE LAYOUT				
DRAWN	CW	CHECKED	RS	APPROVED
SCALE	1:500@A1 / 1:1000@A3			DATE
DRW. NO.	DRAWING NO.			REV.
239956	DR-OAP-20-0-CA-1001			A01



ANNEX B

PROJECT ORGANISATION CHART AND CONTACT DETAIL

PROJECT ORGANISATION (WITH CONTACT DETAILS)





ERM HAS OVER 160 OFFICES ACROSS THE FOLLOWING COUNTRIES AND TERRITORIES WORLDWIDE

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Italy	Thailand	
Japan	UAE	
Kazakhstan	UK	
Kenya	US	
Malaysia	Vietnam	
Mexico		
Mozambique		