



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

Thirty-eighth Quarterly EM&A
Summary Report

PREPARED FOR

OSCAR Bioenergy Joint Venture

DATE

2 December 2025

REFERENCE

0279222



Meinhardt Infrastructure and Environment Limited

**Organic Resources Recovery Centre,
Phase I**

38th Quarterly EM&A Report
(1 Sep 2024 – 30 Nov 2024)

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

Thirty-eighth 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 38th Quarterly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 September 2024 to 30 November 2024 in accordance with the EM&A Manual.

ENVIRONMENTAL MONITORING AND AUDIT PROGRESS

AIR QUALITY MONITORING

Non-compliance of emission limits of VOCs and Total Odour from CAPCS; NO_x and HCl from CHP1; NO_x from CHP2; and NO_x, SO₂, NH₃, and HCl from the ASP were recorded during September 2024.

Non-compliance of emission limits of Total Odour from CAPCS; NO_x and HCl from CHP1; NO_x from CHP2; NO_x from CHP3; NO_x, SO₂, NH₃, and HCl from the ASP; and HF from the Standby Gas Flaring Unit were recorded during October 2024.

Non-compliance of emission limits of VOCs and Total Odour from CAPCS; NO_x and SO₂ from CHP1; NO_x and SO₂ from CHP2; NO_x, SO₂, and HCl from CHP3; NO_x, SO₂, NH₃, and HCl from the ASP; and Dust, CO, NO_x, SO₂, VOCs, HCl, and HF from the Standby Gas Flaring Unit were recorded during November 2024.

Exceedances occurred due to sensor issues, system instability and start-up issues.

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.

One (1) Environmental Complaint regarding odour nuisance was received at the facility on 9 October 2024. Mitigation measures were implemented, daily odour patrols were arranged, ad-hoc independent odour Patrols were conducted on 16 and 30 October 2024 and interim report regarding the complaint was submitted to EPD on 28 November 2024.

Two (2) Environmental Non-Conformances regarding broken doors at waste storage area and chemical spillage were observed on 19 August 2024. Mitigation measures were implemented and investigation reports regarding the non-conformances were submitted to EPD on 23 and 25 September 2024 respectively.

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 158.34 to 197.12 tonnes and treated an average of 113.63 to 152.01 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, and 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 (CHP)s and Ammonia Stripping Plant (ASP), and the wastewater treatment plant;• Completion of repair works for inner roller shutters (Receiving Bay);• Ongoing repair works for outer roller shutter for Receiving Bay 2 & 3;• ASP cleaning• Completion of repair works for external doors of the Receiving Bay;• Pretreatment line 1 maintenance;• CHP3 cleaning• Cleaning of desulphurisation column 2;• Replacement of exhaust heat exchanger of CHP 2; and• Replacement of exhaust heat exchanger of CHP 3.	

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 – 1,714	680	Identified ^(c)	Sensor issues
Dust (or TSP)	0 – 1	6	Nil	Nil
Odour (including NH ₃ & H ₂ S) ^(b)	0 – 2,129.72	220	Identified ^(d)	Sensor issues

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 VOCs exceedances (number of exceedances on that day) were identified on 14(5), 15(21), and 16(15) September 2024; and 7(2), 8(8), 12(1), 20(5), and 22(20) November 2024.

(d) Dates with Odour exceedances (number of exceedances on that day) were identified on 2(5), 3(3), 8(2), 9(4), 10(3), 16(9), 17(24), 18(24), 19(24), 20(23), 21(5), 25(11), 26(22), 27(24), 28(24), 29(24), and 30(18) September 2024; 1(19), 2(14), 3(17), 4(12), 5(14), 6(17), 7(16), 8(17), 9(16), 10(5), 11(1), 12(9), 13(3), 14(4), 15(10), 16(1), 17(7), 18(6), 19(13), 20(13), 21(12), 22(9), 23(2), 24(6), 25(7), 27(11), 28(10), 29(9), 30(9), and 31(15) October 2024; and 1(11), 2(15), 3(16), 4(6), 5(11), 6(12), 7(5), 8(6), 9(11), 10(9), 11(10), 12(16), 13(4), 21(2), 22(11), 23(24), 24(24), 25(24), 26(24), 27(24), 28(24), 29(24), and 30(24) November 2024.

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 - 13	15	Nil	Nil
Carbon Monoxide	0 - 449	650	Nil	Nil
NO _x	0 - 519	300	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 - 71	50	Identified ^(d)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 - 726	1,500	Nil	Nil
HCl	0 - 31	10	Identified ^(e)	System unstable (e.g., low efficiency)
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(13), 3(6), 4(15), 5(13), 6(20), 9(9), 10(10), 11(24), 12(24), 13(24), 14(21), 15(18), 16(24), 17(24), 18(24), 19(24), 20(24), 21(24), 22(24), 23(24), 24(24), 25(24), 26(24), 27(24), 28(24), 29(24), and 30(23) September 2024; 1(24), 2(24), 3(24), 4(21), 6(14), 7(24), 8(24), 9(24), 10(24), 11(24), 12(24), 13(24), 14(24), 15(24), 16(21), 17(15), 18(3), 19(1), 22(3), 24(9), 25(10), 26(24), 27(19), 28(4), 29(5), 30(1), and 31(10) October 2024; and 1(4), 2(7), 3(24), 4(1), 10(5), 11(9), 12(24), 13(24), 14(23), 15(8), 16(24), 17(24), 18(24), 19(24), 20(16), 21(17), 23(3), 24(1), 25(24), 26(4), 27(9), 28(21), 29(24), and 30(23) November 2024.(d) Dates with SO₂ exceedances (number of exceedances on that day) were identified on 10(2), 13(15), 14(23), 15(7), 16(24), 17(11), 18(8), 27(5), and 28(3) November 2024.

(e) Dates with HCl exceedance (number of exceedances on that day) were identified on 19(1) September 2024 and 18(2) October 2024.

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 - 8	15	Nil	Nil
Carbon Monoxide	0 - 142	650	Nil	Nil
NO _x	0 - 511	300	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 - 71	50	Identified ^(d)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 - 493	1,500	Nil	Nil
HCl	0 - 2	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 4(7), 5(4), 6(8), 10(3), 11(13), 12(9), 13(2), 16(10), 19(1), 21(13), 22(3), 23(3), 24(6), and 25(7) September 2024; 1(9), 2(7), 4(3), 5(2), 6(1), 8(10), 9(18), 10(6), 11(5), 12(19), 13(22), 14(22), 15(10), 16(8), 17(16), 18(9), 19(7), 22(3), 23(12), 24(19), 25(10), 26(17), 27(23), 28(24), 29(16), 30(19), and 31(8) October 2024; and 1(18), 2(21), 3(6), 4(8), 5(5), 6(2), 7(12), 8(24), 9(15), 10(15), 11(18), 12(24), 13(24), 14(10), 15(19), 16(8) 17(18), 18(17), 19(15), 20(1), 21(1), 22(8), 23(12), and 24(22) November 2024.(d) Dates with SO₂ exceedances (number of exceedances on that day) were identified on 8(4), 10(7), 11(5), 14(3), 15(19), and 18(3) November 2024.

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 - 14	15	Nil	Nil
Carbon Monoxide	0 - 499	650	Nil	Nil
NO _x	0 - 573	300	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 - 68	50	Identified ^(d)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 - 675	1,500	Nil	Nil
HCl	0 - 20	10	Identified ^(e)	System unstable (e.g., low efficiency)
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 5(1), 6(1), 18(1), 21(2), 22(3), 23(15),

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedances Identified	Remarks
	24(6), 25(1), 26(6), 27(20), 28(12), 29(12), and 30(4) October 2024; and 1(3), 2(5), 3(7), 5(1), 8(7), 9(9), 10(21), 11(14), and 30(2) November 2024.			
(d)	Dates with SO ₂ exceedances (number of exceedances on that day) were identified on 7(4), 10(6), and 11(5) November 2024.			
(e)	Date with HCl exceedance (number of exceedance on that day) was identified on 4(1) November 2024.			

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 – 97	100	Nil	Nil
NO _x	0 – 1,455	200	Identified ^(c)	System unstable (e.g., low efficiency)
SO ₂	0 – 398	50	Identified ^(d)	System unstable (e.g., low efficiency)
VOCs (including methane) ^(b)	0 – 19	20	Nil	Nil
NH ₃	0 – 285	35	Identified ^(e)	System unstable (e.g., low efficiency)
HCl	0 – 72	10	Identified ^(f)	System unstable (e.g., low efficiency)
HF	0 – 1	1	Nil	Nil

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 NO_x exceedances (number of exceedances on the day) were identified on 1(13), 2(11), 3(4), 4(6), 5(1), 9(6), 10(10), 11(12), 12(8), 13(16), 14(9), 15(15), 16(10), 17(3), 18(12), 19(24), 20(18), 21(4), 22(22), 23(13), 24(24), 25(14), 26(22), 27(22), 28(14), 29(22), and 30(17) September 2024; 1(12), 2(12), 3(19), 4(15), 5(20), 6(23), 7(11), 8(19), 9(23), 10(24), 11(23), 12(22), 13(12), 14(20), 15(22), 16(22), 17(18), 18(17), 19(16), 20(23), 21(18), 22(9), 23(20), 24(23), 25(22), 26(20), 27(24), 28(18), 29(9), 30(21), and 31(21) October 2024; and 1(8), 2(22), 3(18), 4(20), 5(18), 6(24), 7(24), 8(21), 9(23), 10(24), 11(19), 12(17), 13(7), 14(16), 15(20), 16(7), 17(8), 18(12), 19(5), 20(9), 21(11), 22(24), 23(24), 24(24), 25(21), 26(24), 27(24), 28(21), 29(23), and 30(22) November 2024.
- (d) Dates with SO₂ exceedances (number of exceedances on the day) were identified on 4(2), 10(2), 11(13), 12(16), 13(23), 14(23), 15(14), 16(16), 17(8), 18(18), 19(24), 20(13), 21(7), 22(17), 23(22), 25(3), 26(3), and 30(1) September 2024; 1(1) and 23(1) October 2024; and 2(8), 3(12), 4(3), 6(12), 7(23), 8(21), 9(22), 10(23), 11(18), 12(20), 13(7), 14(21), 15(22), 16(7), 17(11), 18(13), 19(5), 20(8), 21(11), 22(24), 23(24), 24(24), 25(21), 26(24), 27(24), 28(21), 29(24), and 30(22) November 2024.
- (e) Dates with NH₃ exceedances (number of exceedances on the day) were identified on 3(3), 5(1), 11(10), 12(6), 13(4), 15(3), 16(2), 17(4), 18(4), 19(2), 22(2), 23(2), 24(3), 25(2), 26(5), 27(2), 28(2), 29(2), and 30(4) September 2024; 1(7), 2(6), 3(6), 4(1), 5(1), 9(1), 10(3), 13(4), 14(2), 18(3), 20(1), 21(1), 22(2), 23(1), 25(2), 26(2), 27(2), 29(1), 30(4), and 31(1) October 2024; and 1(6), 2(17), 3(18), 4(12), 5(4), 7(3), 8(6), 9(2), 10(6), 11(6), 12(7), 14(9), 15(13), 16(6), 17(9), 18(9), 19(5), 20(8), 21(5), 23(1), 25(1), 28(1), 29(12), and 30(12) November 2024.
- (f) Dates with HCl exceedances (number of exceedances on the day) were identified on 26(2) September 2024; 1(1) October 2024; and 2(2), 3(3), and 4(2) November 2024.

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 – 32	5	Identified ^(c)	Start-up issues, flare not at working temperature
Carbon Monoxide	0 – 1,145	100	Identified ^(d)	Start-up issues, flare not at working temperature
NO _x	0 – 274	200	Identified ^(e)	Start-up issues, flare not at working temperature
SO ₂	0 – 1,938	50	Identified ^(f)	Start-up issues, flare not at working temperature
VOCs (including methane) ^(b)	0 – 1,064	20	Identified ^(g)	Start-up issues, flare not at working temperature
HCl	0 – 103	10	Identified ^(h)	Start-up issues, flare not at working temperature
HF	0 – 4	1	Identified ⁽ⁱ⁾	Start-up issues, flare not at working temperature

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) Date with Dust exceedances (number of exceedances on that day) was identified on 15(7) November 2024.

Parameter	Range of Hourly Average Conc. (mg/Nm ³) ^(a)	Max. Emission Limit (mg/Nm ³)	Exceedances Identified	Remarks
(d) Date with CO exceedances (number of exceedances on that day) was identified on 15(7) November 2024.				
(e) Date with NO _x exceedances (number of exceedances on that day) was identified on 15(4) November 2024.				
(f) Date with SO ₂ exceedances (number of exceedances on that day) was identified on 15(14) November 2024.				
(g) Dates with VOCs exceedances (number of exceedances on that day) were identified on 15(8) and 28(1) November 2024.				
(h) Date with HCl exceedances (number of exceedances on that day) was identified on 15(7) November 2024.				
(i) Dates with HF exceedances (number of exceedances on that day) were identified on 13(2) and 23(3) October 2024; and 11(5), 12(1), 15(1), and 28(1) November 2024.				

2.1.2 ODOUR

Odour patrol was conducted by the independent odour patrol team of ALS Technichem (HK) Pty Ltd on 9 September 2024.

One (1) Environmental Complaint regarding odour nuisance was received at the facility on 9 October 2024. Mitigation measures were implemented, daily odour patrols were arranged, ad-hoc independent odour Patrols were conducted on 16 and 30 October 2024 and interim report regarding the complaint was submitted to EPD on 28 November 2024.

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 September 2024 to November 2024 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 12 September 2024, 28 October 2024 and 27 November 2024, 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	
	Disposal of at CWTC	Disposed of at Landfill ^(a)	Recycled ^(b)	Disposed of at Landfill ^{(a) (e)}	Recycled ^(c)
September 2024	0 L ^(d)	1,106.69 tonnes	0 tonnes	2.765 tonnes ^(e)	0.049 tonnes
October 2024	0 L ^(d)	1,398.65 tonnes	0 tonnes	2.880 tonnes ^(e)	0.067 tonnes
November 2024	0 L ^(d)	1,341.30 tonnes	0 tonnes	2.995 tonnes ^(e)	0.052 tonnes

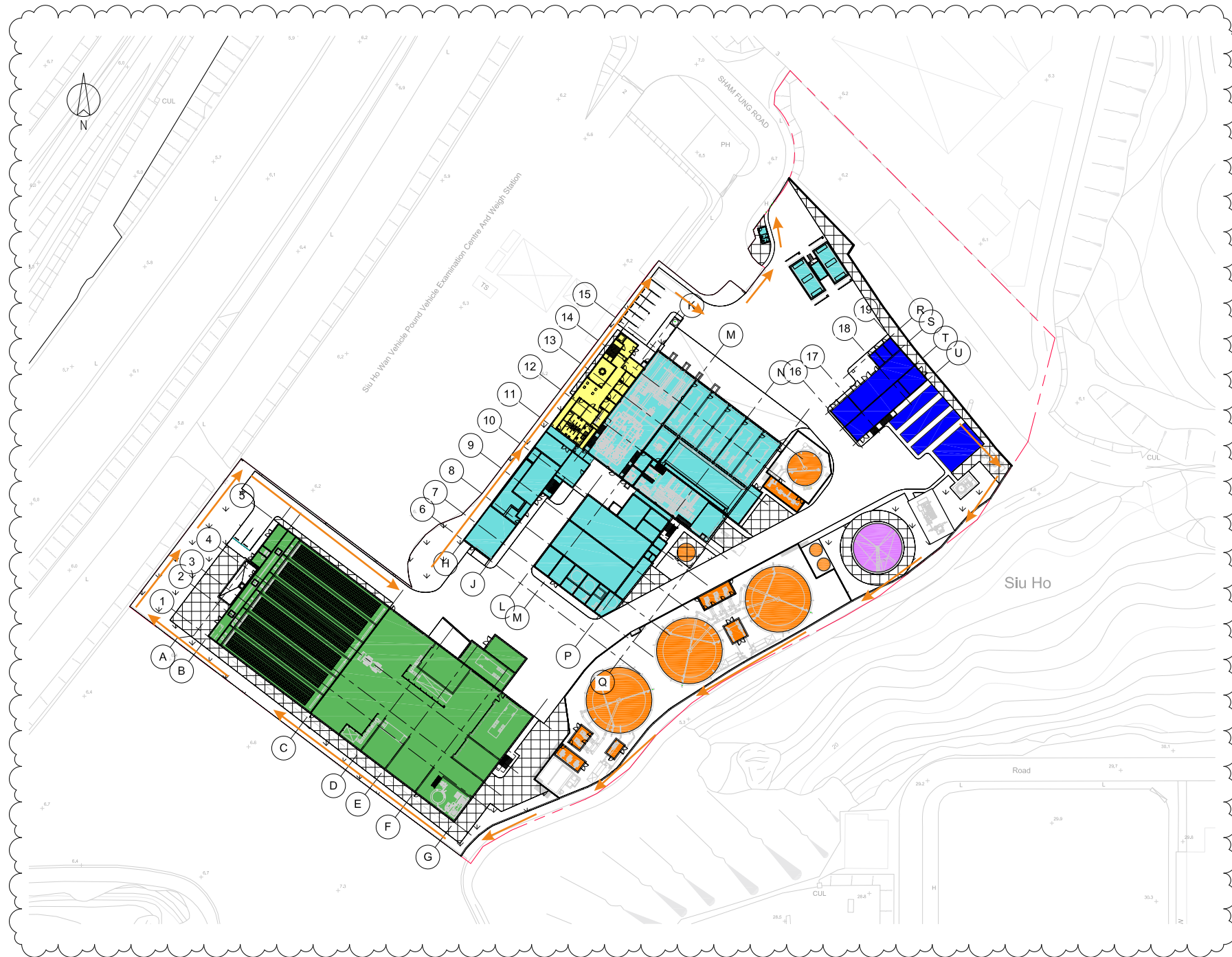
Notes:

- (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, 0.014 tonnes of metals, 0.123 tonnes of papers/ cardboard packing and 0.031 tonnes of plastics were sent to recyclers for recycling during the reporting period.
- (d) No chemical waste was disposed of at CWTC in September 2024, October 2024 and November 2024.
- (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

Patrol Route

A01	05/03/15	CW	MB	ANTECH: BACKGROUNDS UPDATED
A00	18/02/15	CW	MB	DRAFT ISSUE
REV	DATE	BY	APP	DESCRIPTION

CLIENT



CLIENT'S CONSULTANT

AECOM

AECOM ASIA CO. LTD.

CONTRACTOR



OSCAR BIOENERGY JV

LEAD DESIGNER

ARUP

Ove Arup & Partners Hong Kong Limited

ENVIRONMENTAL TEAM

ERM

ERM HONG KONG LIMITED

INDEPENDENT CONSULTANTS

MEINHARDT

Meinhardt Infrastructure and Environment Limited

邁達基建築環保工程顧問有限公司

PROJECT

ORGANIC WASTE TREATMENT FACILITIES

PHASE 1

EP/SP/61/10

STATUS

DRAFT ISSUE

DRAWING TITLE

SITE LAYOUT

DRAWN	CW	CHECKED	RS	APPROVED	DP
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SCALE	1:500 @ A1 / 1:1000 @ A3	DATE	12/02/15
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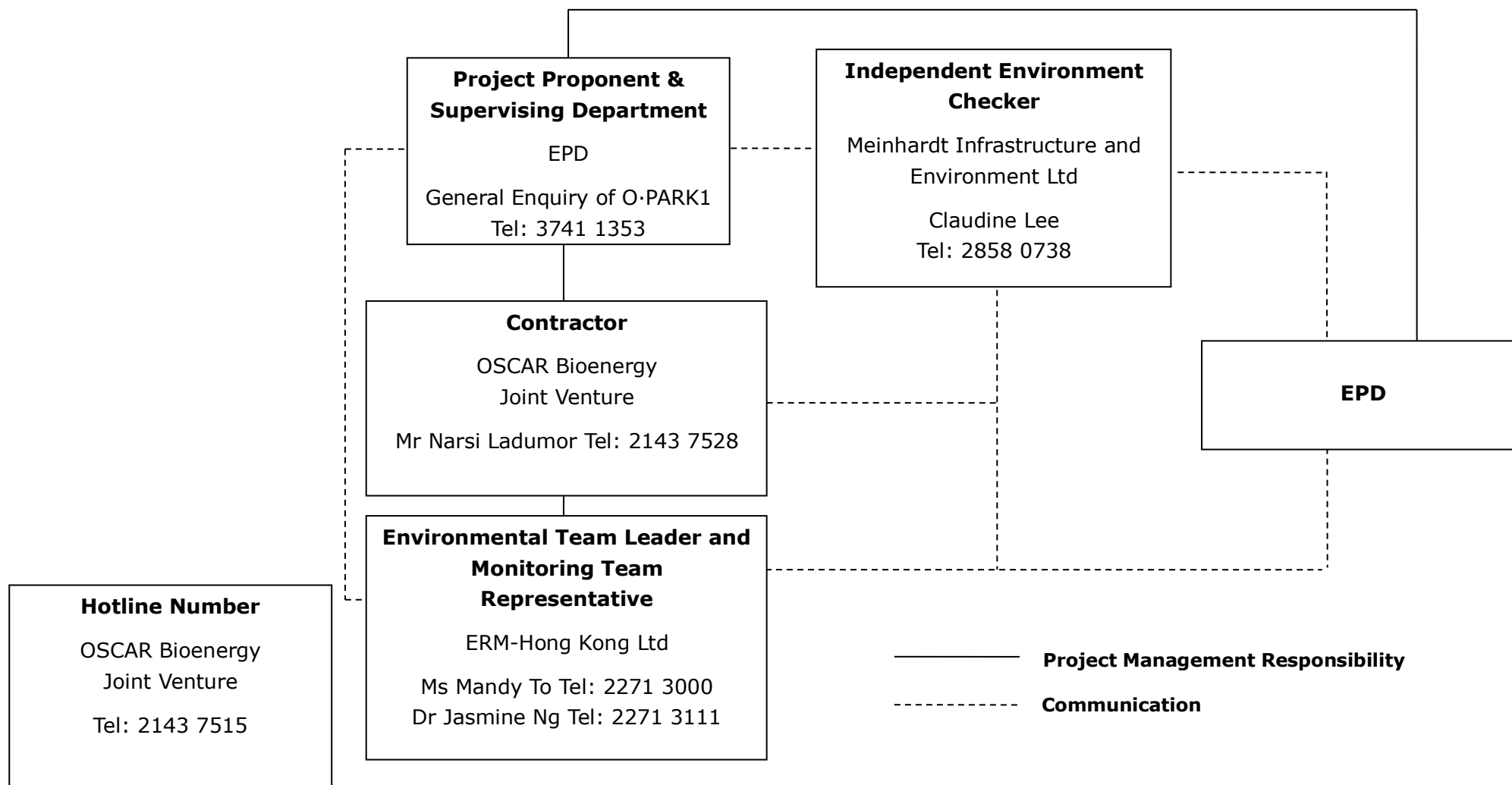
JOB NO.	DRAWING NO.	REV.
239956	DR-OAP-20-0-CA-1001	A01



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

Argentina	The Netherlands
Australia	New Zealand
Belgium	Peru
Brazil	Poland
Canada	Portugal
China	Puerto Rico
Colombia	Romania
France	Senegal
Germany	Singapore
Ghana	South Africa
Guyana	South Korea
Hong Kong	Spain
India	Switzerland
Indonesia	Taiwan
Ireland	Tanzania
Italy	Thailand
Japan	UAE
Kazakhstan	UK
Kenya	US
Malaysia	Vietnam
Mexico	
Mozambique	

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