MONTHLY EM&A REPORT

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1): *Thirty-ninth Monthly EM&A Report*

1 August 2018 – 31 August 2018

Environmental Resources Management

2507, 25/F, One Harbourfront, 18 Tak Fung Street, Hunghom, Kowloon, Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com Meinhardt Infrastructure and Environment Limited

Organic Resources Recovery Centre, Phase I

Monthly EM&A Report (1 August 2018 – 31 August 2018)

(September 2018)

M~

Verified by: <u>Helen Cochrane</u>

Position: Independent Environmental Checker

Date: 14 Sep 2018

MONTHLY EM&A REPORT

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1): *Thirty-ninth Monthly EM&A Report*

1 August 2018 – 31 August 2018 Reference 0279222

Approved by:	Frank Wan
Signed:	Warch H.J.
Position:	Partner
(Environi	nental Team Leader – Mandy To)
Certified by:	Au
	ape Architect No. R-150 - Albert Chung)
(Registered Lanase	

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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 39th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 31 August 2018 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Month

Works undertaken in the reporting month included:

- Building 1 ABWF/finishing work and BS installation;
- Building 2 & 3 ABWF/finishing work and BS installation ;
- Electrical installation (cable trays, Local Control panels/switch installation, general cabling works, instrumentation and control installation, lighting , ELV and SCADA installation) ;
- BS works (MVAC, FS, P/D);
- Landscaping works.
- Systems being operated waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the desulphurisation, the emergency flare, the CHPs, the ASP and the biological wastewater treatment plant;
- Process commission in progress-waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the composting tunnels, the desulphurisation, the emergency flare, the CHPs, the ASP and the biological waste water treatment plant (about 60-80 t/d SSOW input).

Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

- Joint Environmental Site Inspection 4 times
- Landscape & Visual Monitoring 2 times

<u>Odour</u>

Odour patrol were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 1, 3, 6, 8, 10, 13, 15, 20, 22, 24, 27 and 31 August 2018. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrol on 31 August 2018. No Level 2 Odour Intensity was recorded during this monitoring period.

On 31 August 2018, air samples were also collected from the outlet of the Centralised Air Pollution Control (CAPC) unit by an independent laboratory (ALS_) for measurement of the Odour Intensity by olfactometry analysis at the laboratory. The results are not yet available at the time when this report was prepared. The results will be presented in the next monthly EM&A report.

Waste Management

Waste generated from this Project includes inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction wastes).

Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 528.56 tonnes of inert C&D material were generated from the Project, of which 225.00 tonnes were reused in this Contract. The 303.56 tonnes of inert C&D material were disposed of as public fill to the Fill Banks at Tuen Mun Area 38.

Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. 13.620.00 kg of metals, 33.400.00 kg of papers/ cardboard packing and 26760.00 kg of plastics were sent to recyclers for recycling during the reporting period. 44.50 tonnes of general refuse was disposed of at the landfill.

0.00 L of chemical waste was collected by licenced waste collector.

Environmental Site Inspection

Four weekly joint environmental site inspections were carried out by the representatives of the Contractor, ER, IC and the Environmental Team (ET). The IEC was also present at the joint inspection on 15 August 2018. Details of the audit findings and implementation status of the mitigation measures are presented in *Section 6.1*.

Landscape & Visual

Onsite inspections on landscape and visual mitigation measures were performed on 6 and 20 August 2018. Details of the audit findings and implementation status of the mitigation measures are presented in *Sections 6.2*.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance was recorded during the reporting period.

One incident occurred during the reporting period. The incident does not lead to adverse environmental impacts.

No environmental complaint and summon/prosecution was received in this reporting period.

Future Key Issues

Works to be undertaken in the next reporting month include:

- Building 1 ABWF/finishing work and BS installation ;
- Building 2 & 3 ABWF/finishing work and BS installation ;
- Electrical installation (cable trays, Local Control panels/switch installation, general cabling works);
- BS works (MVAC, FS, P/D);
- Landscaping works;
- Process commissioning in progress.

Environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoffs, waste management and landscaping issues.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by OSCAR Bioenergy Joint Venture (the Contractor) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the *Contract No. EP/SP/61/10 of Organic Waste Treatment Facilities Phase I,* which the project name has been updated to *Organic Resources Recovery Centre (Phase I) (the Project)* since November 2017.

1.1 PURPOSE OF THE REPORT

This is the 39th EM&A report which summarises the monitoring results and audit findings for the EM&A programme during the reporting period from **1** to **31 August 2018**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1:	Introduction
	It details the scope and structure of the report

Section 2: Project Information

It summarises the background and scope of the Project, site description, project organization, construction programme, construction works undertaken and status of the Environmental Permits (EP)/licences over the construction phase of the Project.

Section 3: Environmental Monitoring Requirements

It summarises the environmental monitoring requirements including monitoring parameters, programmes, methodologies, frequency, locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EM&A Manual and approved EIA report.

- Section 4: **Implementation Status on Environmental Mitigation Measures** It summarises the implementation of environmental protection measures during the reporting period.
- Section 5: **Waste Management** It summarises the quantity of public fill and construction waste generated in the reporting period
- Section 6: **Environmental Site Inspection** It summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance

It summarises any exceedance of environmental performance standard, environmental complaints and summons received within the reporting period.

Section 8: Further Key Issues

It summarises the impact forecast and monitoring schedule for the next reporting month.

Section 9: Conclusions

2 PROJECT INFORMATION

2.1 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 through proven biological treatment technologies.

The environmental acceptability of the construction and operation of the Project had been confirmed by findings of the associated Environmental Impact Assessment (EIA) Study completed in 2009. The Director of Environmental Protection approved this EIA Report under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) in February 2010 (Register No.: AEIAR-149/2010) (hereafter referred to as the approved EIA Report). Subsequent Report on Re-assessment on Environmental Implications and Report on Re-assessment on Hazard to Life Implications were completed in 2013, respectively.

An Environmental Permit (EP) (No. EP-395/2010) was issued by the Environmental Protection Department (EPD) to the EPD, the Permit Holder, on 21 June 2010 and varied on 18 March 2013 (No. EP-395/2010/A) and 21 May 2013 (No. EP-395/2010/B), respectively. The Design Build and Operate Contract for the ORRC Phase 1 (Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1) (the Contract)) was awarded to SITA Waste Services Limited, ATAL Engineering Limited and Ros-Roca, Sociedad Anonima jointly trading as the OSCAR Bioenergy Joint Venture (OSCAR or the Contractor). A Further EP (No. FEP-01/395/2010/B) was issued by the EPD to the OSCAR on 16 February 2015. Variation to both EPs No. EP-395/2010/B and No. FEP-01/395/2010/B were made in December 2015. The latest EPs, No. EP-395/2010/C and No. FEP-01/395/2010/C, were issued by the EPD on 21 December 2015.

Under the requirements of Condition 5 of the EP (No. FEP-01/395/2010/C), an Environmental Monitoring and Audit (EM&A) programme as set out in the Agreement No. CE7/2008 (EP) EM&A Manual (hereinafter referred to as EM&A Manual) is required to be implemented. ERM-Hong Kong, Ltd (ERM) has been appointed by OSCAR as the Environmental Team (ET) to undertake the EM&A programme for the Contract.

The construction works commenced on 21 May 2015 and are scheduled for completion by October 2018.

2.2 GENERAL SITE DESCRIPTION

The Project Site is located at Siu Ho Wan in North Lantau with an area of about 2 hectares. The layout of the Project Site is illustrated in *Annex A*.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in the reporting period is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*. The construction programme of the Project is presented in *Annex C*.

Table 2.1Summary of Construction Activities Undertaken in the Reporting Period

Construction Activities Undertaken

- Building 1 ABWF/finishing work and BS installation;
- Building 2 & 3 ABWF/finishing work and BS installation;
- Electrical installation (cable trays, Local Control panels/switch installation, general cabling works, instrumentation and control installation, lighting, ELV and SCADA installation);
- BS works (MVAC, FS, P/D);
- Landscaping works;
- Systems being operated waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the desulphurization, the emergency flare, the CHPs, the ASP and the biological waste water treatment plant;
- Process commissioning in progress waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the composting tunnels, the desulphurisation, the emergency flare, the CHPs, the ASP and the biological waste water treatment plant (about 60-80 t/d SSOW input).

2.4 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The project organisation chart and contact details are shown in *Annex D*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2Summary of Environmental Licensing, Notification and Permit Status

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Permit/ Licences/	Reference	Validity Period	Remarks
Notification			
Environmental	FEP-01/395/2010/C	Throughout the	Permit granted on 21
Permit		Contract	December 2015
Notification of	Ref No. 386715	Throughout the	-
Construction Works		Contract	
under the Air			
Pollution Control			
(Construction Dust)			
Regulation			
Effluent Discharge	WT00021482-2015	21 May 2015 - 31	Approved on 21 May
License		May 2020	2015
Construction Noise	GW-RW0229-18	21 July 2018 - 20	Approved on 19 June
Permit - P1&P2	(Superseded CNP	January 2019	2018
	GW- RW0637-17)	-	
Construction Noise	GW-RW0184-18	1 June 2018 – 30	Approved on 17 May
Permit – P3	(Superseded CNP	November 2018	2018
	GW-RW0565-17)		
	·		

ENVIRONMENTAL RESOURCES MANAGEMENT

Permit/ Licences/	Reference	Validity Period	Remarks
Notification			
Construction Noise	GW-RW0107-18	30 March 2018 - 29	Approved on 20
Permit - P5 (Slope)		September 2018	March 2018
Chemical Waste	WPN 5213-961-	Throughout the	Approved on 29 Apri
Producer Registration	O2231-01	Contract	2015
Waste Disposal	Account number:	Throughout the	-
Billing Account	702310	Contract	

ENVIRONMENTAL MONITORING REQUIREMENT, ENVIRONMENTAL MITIGATION MEASURES

3

All the relevant environmental mitigation measures listed in the EIA Report and EM&A Manual are summarised in *Annex E*.

According to the EM&A Manual and EP requirement, no air quality, noise and water quality monitoring is required during the construction phase.

According to the EM&A Manual and EP requirement, odour monitoring is required during the commissioning phase.

The odour patrols shall be conducted by an odour patrol team. The odour patrol team will patrol and sniff along an odour patrol route at the site boundary. The implementation of the odour patrol shall be subject to the prevailing weather forecast condition and no odour patrol should be carried out during rainy day. The odour patrol team should be comprised of at least two independent trained personnel / competent persons, who should pass a set of screening tests.

Odour patrol were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 1, 3, 6, 8, 10, 13, 15, 20, 22, 24, 27 and 31 August 2018. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrol on 31 August 2018. According to the EM&A Manual and EP requirement, it is considered an exceedance if the odour intensity recorded by the panellists is Level 2 or above. During this reporting period, no Level 2 Odour Intensity was recorded. The odour patrol results are shown in *Annex H*.

On 31 August 2018, air samples were also collected from the outlet of the Centralised Air Pollution Control (CAPC) unit by ALS for measurement of the Odour Intensity by olfactometry analysis at the laboratory. The results are not yet available at the time when this report was prepared. The results will be presented in the next monthly EM&A report.

Bi-weekly landscape and visual audit is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved.

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

4

The Contractor has implemented environmental mitigation measures and requirements as stated in the approved EIA Report and EM&A Manual. The implementation status of the measures during the reporting period is summarised in *Annex E*.

Wastes generated from this Project include inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction waste). Construction waste comprises general refuse, metals and paper/cardboard packaging materials. Metals generated from the Project are also grouped into construction waste as the materials were not disposed of with others at public fill. Reference has been made to the Monthly Summary Waste Flow Table prepared by the Contractor (see *Annex F*). With reference to the relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in *Table 5.1*.

	Quantity								
Total Inert C&D	Non-inert C&D Materials (b)								
Materials Generated ^(a)	C&D Materials Recycled ^(c)	C&D Waste Disposed of at Landfill ^(d)	Chemical Waste						
528.56 tonnes	73,780.00 kg	44.50 tonnes	0.00 L						
	Materials Generated ^(a)	Total Inert C&D Non-i Materials Generated ^(a) C&D Materials Recycled ^(c)	Total Inert C&D Non-inert C&D Materia Materials Generated (a) C&D Materials C&D Waste Recycled (c) Disposed of at Landfill (d)						

Table 5.1Quantities of Waste Generated from the Project

(a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 528.56 tonnes of inert C&D material were generated from the Project, of which 225.00 tonnes were reused in this Contract and the 303.56 tonnes were disposed as public fill to the Fill Bank at Tuen Mun Area 38. The detailed waste flow is presented in *Annex F*.

- (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (c) 13,620.00 kg of metals, 33,400.00 kg of papers/ cardboard packing and 26.760.00 kg of plastics were sent to recyclers for recycling during the reporting period.
- (d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at NENT Landfill by subcontractors.

6 ENVIRONMENTAL INSPECTIONS

6.1 WEEKLY SITE AUDITS

Joint site inspections were conducted by representatives of the Contractor, the ER, IC and the ET on 7, 15, 21 and 28 August 2018. The IEC was also present at the joint inspection on 15 August 2018. Follow-up actions resulting from the last site inspections were generally taken as reported by the Contractor.

Key observations during the reporting period are summarised as follows:

7 August 2018

• Chemical containers was observed in Building 1 and the contractor was advised to provide drip tray or move the containers to designated storage area according to the Code of Practice.

15 August 2018

- Stagnant water was observed in the unused skip near vehicle entrance and the contractor was advised to remove the stagnant water to prevent mosquito breeding.
- Muddy material was observed in the surface channel, and the contractor was advised to clean all the surface channel on site.
- Chemical containers was observed in Building 2 and near Building 1. The contractor was advised to provide drip tray or move the containers to designated storage area according to the Code of Practice.

21 August 2018

• Stagnant water was observed near Building 1, and the contractor was advised to remove the stagnant water to prevent mosquito breeding.

28 August 2018

- Stagnant water was observed on Building 1 roof and the contractor was advised to remove the stagnant water to prevent mosquito breeding.
- Chemical containers were observed on the ground on Building 1 roof and the contractor was advised to provide drip tray or remove the containers to designated storage area according to the Code of Practice.

6.2 LANDSCAPE AND VISUAL AUDIT

In accordance with the EM&A Manual, bi-weekly landscape and visual inspection is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved. Onsite inspections of the landscape and visual mitigation measures were performed on 6 and 20 August 2018.

It was confirmed that the necessary landscape and visual mitigation measures as summarised in *Annex E* were generally implemented by the Contractor. No specific observation was found during site inspections 6 and 20 August 2018.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

One incident occurred during the reporting period.

The incident occurred at Sequencing Batch Reactor 2 (SBR2) at P1 Building1 of the Site, which some foam was overflowed from the vent of SBR 2 but no wastewater was overflowed. The incident had been investigated and the agreed remedial works and follow-up actions will be completed by the Contractor shortly. The Investigation Report is shown in *Annex I*.

7.2 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period. The cumulative environmental complaint log is shown in *Annex G*.

7.3 SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION

No summon/prosecution was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex G*.

8 FUTURE KEY ISSUES

8.1 KEY ISSUES FOR THE COMING MONTH

Works to be undertaken for the coming monitoring period are summarised in *Table 8.1*.

Table 8.1Construction Works to be undertaken in the Next Reporting Period

Construction Activities Undertaken

- Building 1 ABWF/finishing work and BS installation ;
- Building 2 & 3 ABWF/finishing work and BS installation ;
- Electrical installation (cable trays, Local Control panels/switch installation, general cabling works);
- BS works (MVAC, FS, P/D);
- Landscaping works;
- Process commissioning in progress.

Potential environmental impacts arising from the above construction activities will be mainly associated with dust, construction noise, site runoffs, waste management and landscaping issues.

8.2 CONSTRUCTION PROGRAMME

The most up-to-date construction programme for the Project is presented in *Annex C*.

CONCLUSIONS

9

This EM&A Report presents the EM&A programme undertaken during the reporting period from 1 to 31 August 2018 in accordance with EM&A Manual and requirements of EP (FEP-01/395/2010/C).

No air quality, noise and water quality monitoring is required during the construction phase.

Odour patrol and monitoring are required during the commissioning phase. No exceedance of odour intensity limit for all odour patrol events. Air samples were also collected at the CAPC unit for olfactometry analysis at the laboratory. Results are not yet available at the time this report was prepared. Results will be reported and discussed in the next monthly EM&A report.

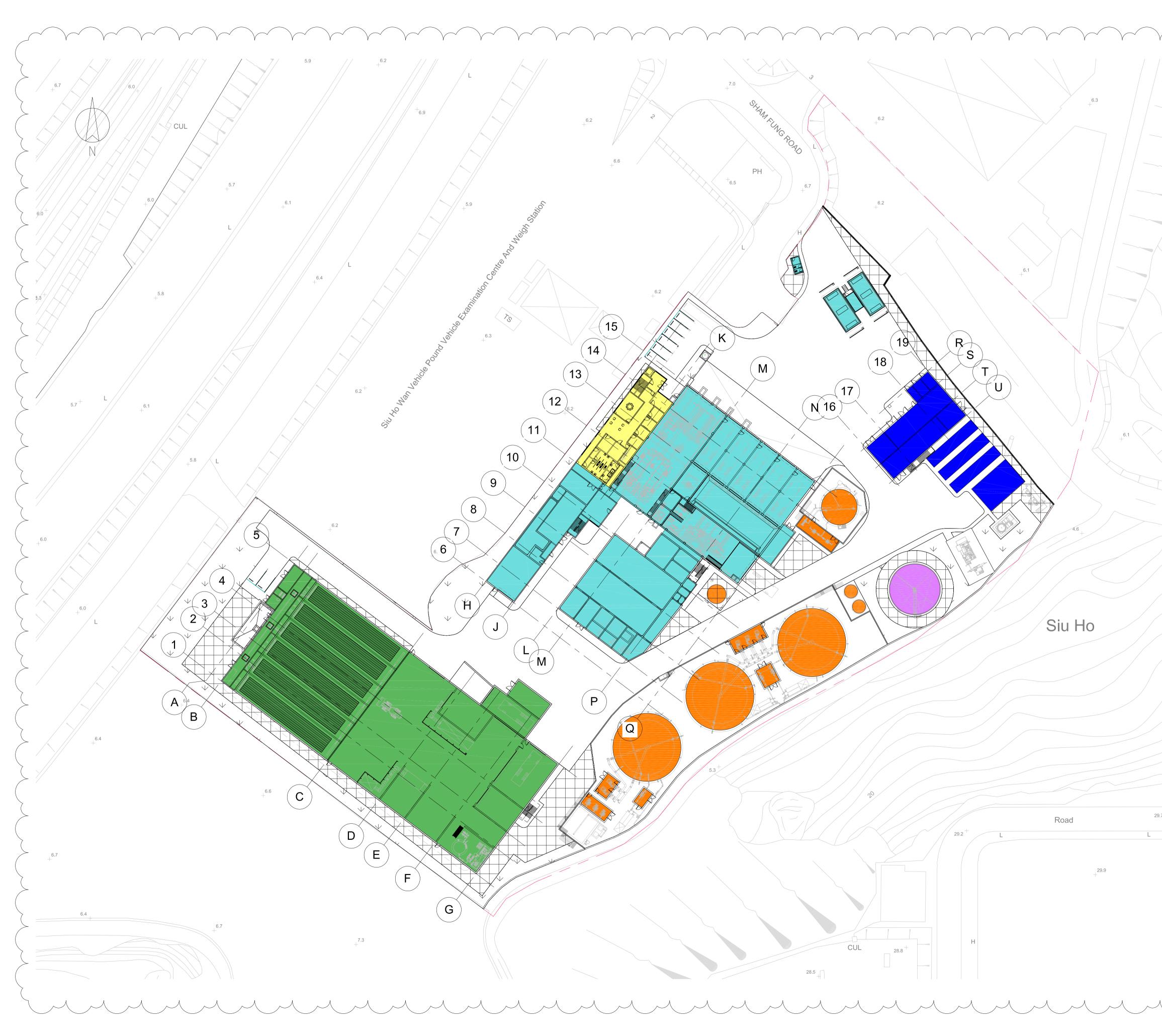
Bi-weekly landscape and visual monitoring was conducted in the reporting period. The necessary landscape and visual mitigation measures recommended in the EIA Report were generally implemented by the Contractor.

One incident occurred during reporting period. The Investigation Report is provided in *Annex I*. The incident did not lead to adverse environmental impact.

No complaint and summons/prosecution was received during the reporting period.

The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all the necessary mitigation measures in the coming periods. Annex A

Project Layout



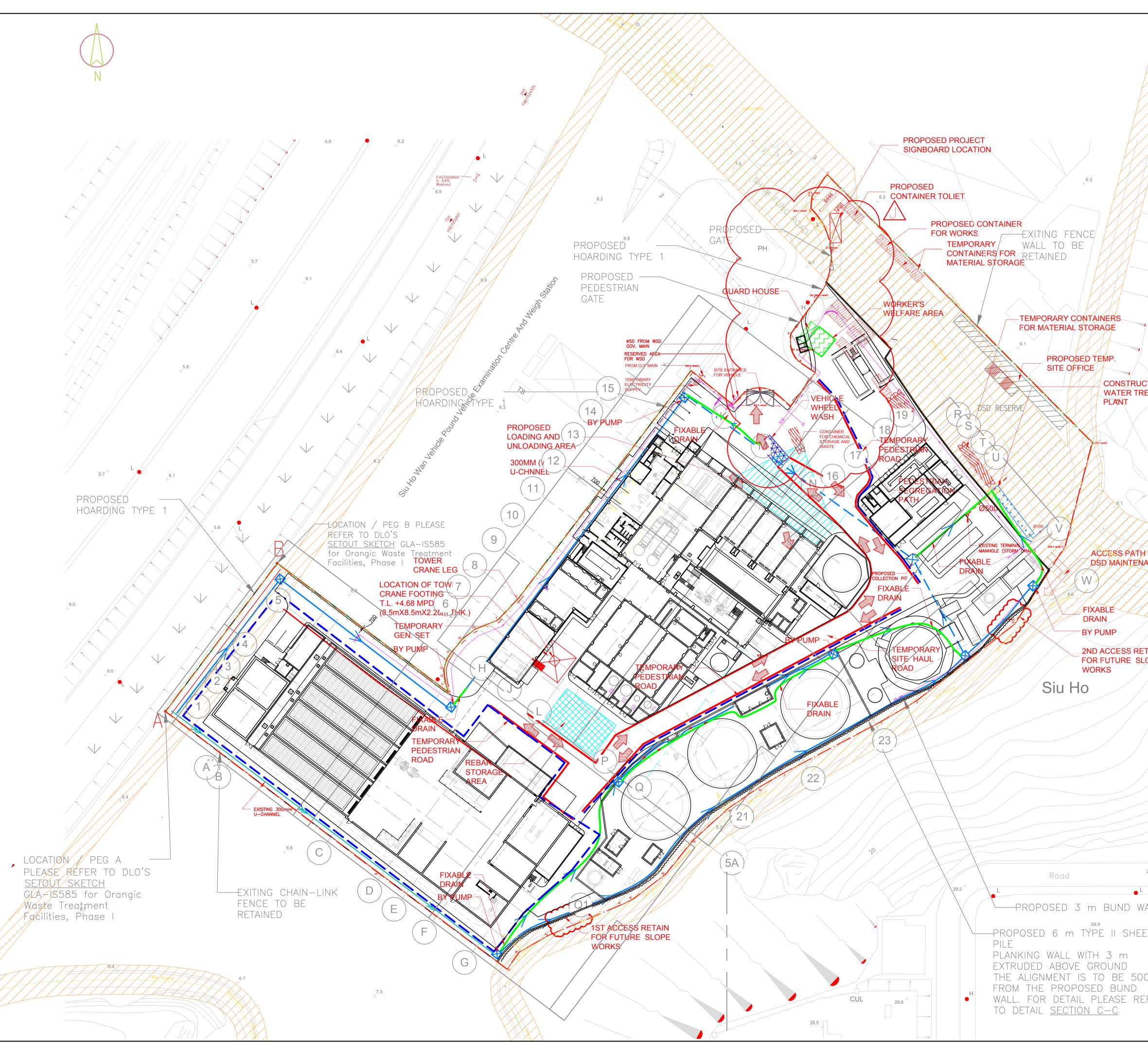
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Annex B

Works Location



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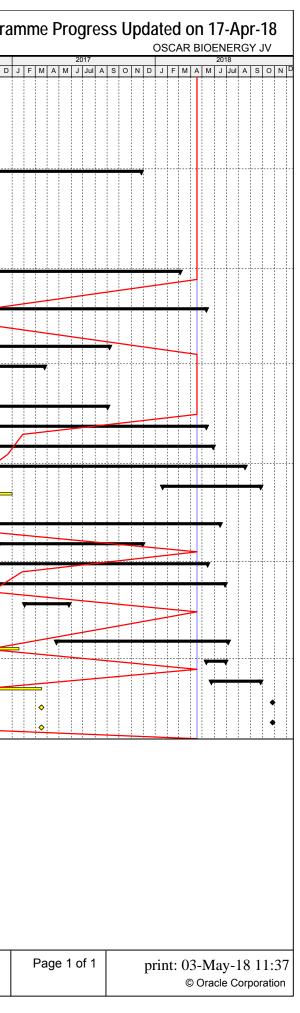
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	LEGEND
	SITE BOUNDARY
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	++++++ EXISTING CHAIN-LINK FENCE
	PROPOSED 6 m TYPE II SHEET PILE PLANKING WALL WITH 3 m EXTRUDED ABOVE GROUND
	\times \times \times \times EXISTING FENCE WALL
	DISCHARGE DRAINAGE
	300mm(W) PROPOSED TEMP. CHANNEL
	300mm(W) EXISTING U-CHANNEL 50/75mm FLEXIBLE DRAIN
	PROPOSED TEMP. CATCH PIT
	PORTABLE WATER PIPE
	TRAFFIC DIRECTION
	REBAR STORAGE AREA AND BENDING YARD
	GENERAL MATERIAL STORAGE AREA
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	VEHICLE WHEEL WASH
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	ENVIRONMENTAL PROTECTION DEPARTMENT GOVERNMENT OF THE HKSAR
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	AECOM ASIA CO. LTD.
	SUE2 OSCAR Bioenergy Joint Venture
RETAIN SLOPE	
	LEAD DESIGNER
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	Ove Arup & Partners Hong Kong Limited
	ERM
	ERM HONG KONG LIMITED
	MEIN-KRDT
	Meinhardt Infrastructure and Environment Limited 邁進基建環保工程顧問有限公司
	遇進參建項保工 在顧同有限公司 PROJECT
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Annex C

Construction Programme of the Project

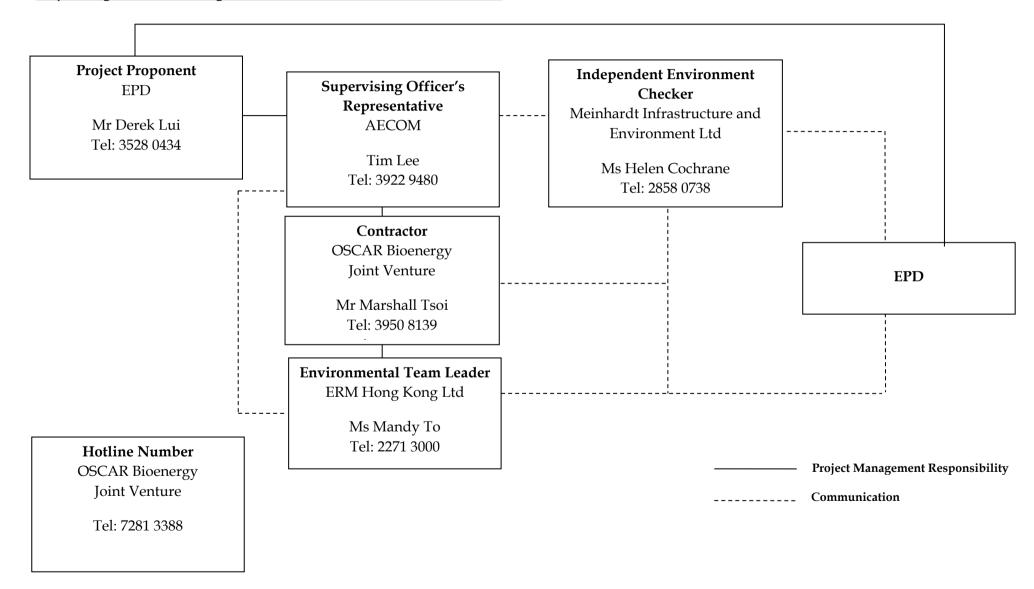
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2	Prelimina	ary and Site Establishment	217 20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A		-349								
3	ESum110	Preliminary and Site Establishment	217 20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A	100%	-349				-				
4	Design		372 20-Nov-14	23-Feb-16	0	20-Nov-14 A	05-Mar-18 A		-601								
5	ESum120	Design Criteria and Design Preparation	80 20-Nov-14	27-Feb-15	0	20-Nov-14 A	01-Sep-15 A	100%	-151								
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	e 289 19-Dec-14	23-Feb-16	0	18-Dec-14 A	27-Nov-17 A	100%	-437					·····	<u>+</u>		
7	ESum132	Detailed Design Submission (DDS) - Building 1	151 21-Apr-15	25-Nov-15	0	13-Apr-15 A	27-Jul-16 A	100%	-164		•						
в	ESum134	Detailed Design Submission (DDS) - Building 2	158 12-Mar-15	30-Oct-15	0	12-Mar-15 A	07-Apr-16 A	100%	-106		-						
9	ESum136	Detailed Design Submission (DDS) - Building 3	103 03-Jun-15	29-Oct-15	0	20-Jul-15 A	30-Mar-16 A	100%	-102			_	-				
0	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177 10-Feb-15	29-Oct-15	0	11-Feb-15 A	08-Aug-16 A	100%	-191								
1	ESum140	Detailed Design Submission (DDS) - E&M and BS	216 18-Dec-14	04-Nov-15	0	18-Dec-14 A	05-Mar-18 A	100%	-577					<u></u>			
	E3ull140							100 %						7			
2	Procurer		507 12-Feb-15	02-Jul-16	25	01-Mar-15 A	11-May-18		-678								
	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M System Equipment	is 507 12-Feb-15	02-Jul-16	25	01-Mar-15 A	11-May-18	99.94%	-678								
4	Construc		489 13-May-15	31-Dec-16	135	04-May-15 A	26-Sep-18		-513								
5	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administra	ition) 178 19-Aug-15	23-Mar-16	0	02-Sep-15 A	06-Sep-17 A	100%	-431								
6	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262 23-May-15	11-Apr-16	0	16-Jun-15 A	24-Mar-17 A	100%	-285			-					
7	ESum175	Construction of Building #3 (Energy Centre)	87 30-Oct-15	15-Feb-16	0	24-Mar-16 A	24-Oct-16 A	100%	-205						_ +++		
8	ESum180	Construction of Auxiliary Buildings & Facilities	263 13-May-15	31-Mar-16	0	04-May-15 A	02-Sep-17 A	100%	-424								+++++
9	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxiliary	y Buildings 259 23-Dec-15	08-Nov-16	21	21-Mar-16 A	11-May-18	97.1%	-443							_	<u>+</u> +++
20	ESum200	& Facilities (excl. EEC) Sitewide, Boundary Wall and Roadworks	326 02-Sep-15	07-Oct-16	34	13-Nov-15 A	28-May-18	98.5%	-482								
!1	ESum210	Statutory and Utilities Works (excl. Lifting Platform)	148 04-Mar-16	06-Oct-16	102	02-Nov-16 A	17-Aug-18	99.4%	-551								
2																	\neg
	ESum215	Green Roof and Landscaping	129 29-Jul-16	31-Dec-16	135	20-Jan-18 A	26-Sep-18	3%	-513							-	
:3		I Building Services Installation	229 04-Feb-16	12-Nov-16	59	11-May-16 A	27-Jun-18		-477							_	
4	ESum220	E&M Installation - Mechanical	164 04-Feb-16	25-Aug-16	50	11-May-16 A	15-Jun-18	99.6%	-533								•
25	ESum222	E&M Installation - Piping	144 24-May-16	12-Nov-16	0	28-Nov-16 A	30-Nov-17 A	100%	-311								<u> </u>
:6	ESum224	E&M Installation - Electrical, Instrumentation & Control	181 02-Apr-16	08-Nov-16	23	28-Sep-16 A	14-May-18	99.9%	-445								
:7	ESum226	Building Services Installation (excl. EEC)	125 18-Apr-16	14-Sep-16	59	24-Jun-16 A	27-Jun-18	86.9%	-525								
8	ESum230	Energisation of Switchboards / MCC with SAT	1 28-Jul-16	28-Jul-16	0	02-Feb-17 A	26-May-17 A	100%	-244								
9	Testina &	& Commissioning and Completion	232 29-Jul-16	17-Mar-17	193	24-Apr-17 A	27-Oct-18		-588								
0	ESum240	Pre-Commissioning	144 29-Jul-16	19-Jan-17	81	24-Apr-17 A	06-Jul-18	61.2%	-533								
1	ESum241	System Commissioning	0		50	11-May-18	29-Jun-18	0%									
2	ESum250	Process Commissioning, Performance & Acceptance Testing	119 22-Oct-16	16-Mar-17	127	23-May-18	26-Sep-18	0%	-559								
						23-111ay-10											
13	KD100360	Completion of the Design and the Works including Testing and Commissio (Extended Completion Date: 10-Jun-2017 noon)		16-Mar-17	0		26-Oct-18	0%	-589								(
4	KD100380	Commencement of the Operation	0 17-Mar-17		0	27-Oct-18*		0%	-588								

Project:V1.4_up_17Apr18-2	Milestone	♦	♦ Actual Milestone ♦	♦ Baseline Milestone	Baseline: Contract Programme for The Design and Construction
Ref.:WS-OSC-0-0-TM-0123-A, Date: 24-Apr-2018	BL Summar	у 🗸	Exe. Summary		Works v1.4



Annex D

Project Organization Chart with Contact Details <u>Project Organization During Construction Phase (with contact details)</u>



Annex E

Implementation Schedule of Mitigation Measures

Annex E Summary of Mitigation Measures Implementation Schedule

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
C		l al Mitigation Measures in the EIA and EM&A Manual		
	ir Quality	u Mulgation Measures in the ETA and EMBA Manual		
3.73 A. A	2.5	Air Pollution Control (Construction Dust) Regulation & Good Site Practices	Construction Site / During	2
5.75	2.5	• Use of regular watering, with complete coverage, to reduce dust emissions from exposed site	Construction Period	N
		surfaces and unpaved roads, particularly during dry weather.	Construction renou	
		• Use of frequent watering for particularly dusty construction areas and areas close to ASRs.		
		Side enclosure and covering of any aggregate or dusty material storage piles to reduce		
		emissions. Where this is not practicable owing to frequent usage, watering should be applied		
		to aggregate fines.		
		• Open stockpiles should be avoided or covered. Where possible, prevent placing dusty		
		material storage piles near ASRs.		
		• Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		
		• Establishment and use of vehicle wheel and body washing facilities at the exit points of the		
		site.		
		• Provision of wind shield and dust extraction units or similar dust mitigation measures at the		
		loading points, and use of water sprinklers at the loading area where dust generation is likely		
		during the loading		
		process of loose material, particularly in dry seasons/ periods.		
		• Imposition of speed controls for vehicles on unpaved site roads. 8 kilometers per hour is the recommended limit.		
		• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.		
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be		
		covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3		
		sides.		
		• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible		
		high level alarm which is interlocked with the material filling line and no overfilling is		
		allowed.		
		• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be		
		carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted		
		with an effective fabric filter or equivalent air pollution control system.		
В. Н	lazard to Life			
4.102	3.3	Construction Phase	Construction Site / During	

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		 The number of workers on site during construction stage should be kept at the same level as the assessment. Construction works should be suspended when delivery of chlorine takes place. 3m high fence should be constructed along the boundary facing the SHWWTW. Emergency evacuation procedures should be formulated and the Contractor should ensure all workers on site should be familiar with these procedures as well as the route to escape in case of gas release incident. Relevant Departments, such as Fire Services Department (FSD), should be consulted during the development of Emergency procedures. Diagram showing the escape routes to a safe place should be posted in the site notice boards and at the entrance/exit of site. A copy of the latest version emergency procedures should be dispatched to Tung Chung Fire Station for reference once available. The emergency procedures should specify means of providing a rapid and direct warning (e.g. Siren and Flashing Light) to construction workers in the event of chlorine gas release in the SHWWTW. The Contractor should establish a communication channel with the SHWWTW operation personnel and FSD during construction stage. In case of any hazardous incidents in the treatment works, operation personnel of SHWWTW should advise the Contractor to inform construction workers to proceed with emergency procedure. The Contractor should appoint a Liaison Officer to communicate with FSD Incident Commander on site in case of emergency. Introduction training should be provided to any staff before carryout construction works at the Project site. Periodic drills should be coordinated and conducted to ensure all construction workes at the Project site. Periodic drills should be conducted to identify area of improvement. Prior notice of periodic drills should be given to Station Commander of Tung Chung Fire Station. Joint operational exercise with FSD and SHWWTW is recommended. 	Construction Period	
С. И	Vater Quality		1	1
5.44	4.5	<u>Construction site run-off and general construction activities:</u> The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.	Construction Site / During Construction Period	<>
5.45	4.5	Excavation of Soil Materials The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons. This prevents soil erosion from exposed soil surfaces. Any exposed soil surfaces should also be properly protected to minimise dust emission. In areas where a large amount of exposed soils exist, earth bunds or sand bags should be provided. Exposed	Construction Site / During Construction Period	\checkmark

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles of materials should be placed at locations away from any stream courses so as to avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted and protected by permanent work.		
5.46	4.5	Accidental spillage of chemicals: Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Construction Site / During Construction Period	√
5.47	4.5	Maintenance of vehicles and equipments involving activities with potential for leakage and spillage should only be undertaken within the areas which appropriately equipped to control these discharges.	Construction Site / During Construction Period	√
5.48	4.5	Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.	Construction Site / During Construction Period	<>
5.49	4.5	 Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labeled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	Construction Site / During Construction Period	<>
5.50		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid entering to the nearby watercourses. Stockpiles of cement and other construction materials should be kept covered when not being used. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area. It is recommended to clean the construction sites on a regular basis.	Construction Site / During Construction Period	√

EIA Ref. EM& Log	A Environmental Protection Measures ef.	Location/ Timing	Status
5.51 4.5	<u>Sewage Effluent</u> The presence of construction workers generates sewage. It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30m from any watercourse. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.		1
5.52 4.5	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.	Work Site / During Construction Period	\checkmark
5.53 4.5	Nullah Decking To minimize the potential water quality impacts from the nullah reconstruction works, the practices outlined below should be adopted where applicable: • The proposed works should be carried out within the dry season between October and March when the flow in the open nullah is low. • The use of less or smaller construction plants may be specified to reduce the disturbance to the nullah bed. • Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from the nullah and any water courses during carrying out of the construction works. • Stockpiling of construction materials and dusty materials should be covered and located away from the nullah any water courses. • Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nullah and nearby water receivers. • Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the nullah, where practicable. • Construction effluent, site run-off and sewage should be properly collected and/or treated. • Any works site inside the nullah should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the water quality. • Proper shoring may need to be erected in order to prevent soil/mud from slipping into the nullah and nearby watercourse.	Work Site / During Construction Period	N/A

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
6.41	5.4	Good Site PracticesRecommendations for good site practices during the construction phase would include:• Obtain relevant waste disposal permits from appropriate authorities, in accordance with theWaste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (MiscellaneousProvisions) Ordinance (Cap. 28);• Provide staff training for proper waste management and chemical handling procedures;• Provide sufficient waste disposal points and regular waste collection;• Provide appropriate measures to minimize windblown litter and dust during transportationof waste by either covering trucks or by transporting wastes in enclosed containers;• Carry out regular cleaning and maintenance programme for drainage systems, sumps andoil interceptors;• Separate chemical wastes for special handling and disposed of to licensed facility fortreatment; and• Employ licensed waste collector to collect waste.	Work Site / During Construction Period	\$
6.42	5.5	Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • Design foundation works that could minimise the amount of excavated material to be generated; • Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; • Sort out demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (i.e. soil, broken concrete, metal etc.); • Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage the collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; and • Plan and stock construction materials carefully to minimize the amount of waste to be generated and to avoid unnecessary generation of waste.	Work Site/During Design & Construction Period	√
6.44	5.7	Excavated and C&D MaterialsIn order to minimise the impact resulting from collection and transportation of C&D materialfor off-site disposal, the excavated material arising from site formation and foundation worksshould be reused on-site as backfilling material and for landscaping works as far aspracticable. Other mitigation requirements are listed below:• A WMP, which becomes part of the Environmental Management Plan (EMP), should be	Work Site/During Design & Construction Period	\checkmark

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		 prepared in accordance with ETWB TCW No.19/2005; A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) should be adopted for easy tracking; and In order to monitor the disposal of excavated and C&D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to ETWB TCW No. 31/2004). 		
6.45 - 6.46	5.8 - 5.9	An EMP should be prepared and implemented in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. The EMP should be submitted to the Supervising Officer (SO) and Supervising Officer's Representative (SOR) for approval. The EMP should be reviewed regularly and updated, preferably on a monthly basis. A system should be devised to work for on-site sorting of excavated and C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.	Work Site/During Design & Construction Period	V
6.47	5.10	<u>Chemical Waste</u> Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a licensed collector to transport and dispose of the chemical wastes, to either the CWTC in Tsing Yi, or any other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) General) Regulation.	Work Site / During Construction Period	<>
6.48	5.11	<u>General Refuse</u> General refuse should be stored in enclosed bins or compaction units separated from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work Site / During Construction Period	\checkmark
	andscape and V		· · · · · · · · · · · · · · · · · · ·	
7.99 &	Table 6.1	Construction Phase	Work site/During Design &	\checkmark

EIA Ref.	EM&A	Environmental Protection Measures	Location/ Timing	Status
	Log Ref.			
Table 7.7		• Topsoil, where identified, should be stripped and stored for re-use in the construction of the	Construction Stages	
		soft landscape works, where practical		
		Compensatory tree planting should be provided to compensate for felled trees.		
		- Compensation tree species shall be chosen from both indigenous and ornamental species		
		- Compensatory tree planting quantities shall be as per DLO approved requirement.		
		Control of night-time lighting		
		Erection of decorative screen hoarding compatible with the surrounding setting		
F. N	loise			
8.25	7.3	Good Site Practice:	Work site/During Design &	\checkmark
		Only well-maintained plant should be operated on-site and plant should be serviced	Construction Stages	
		regularly during the construction program;		
		• Mobile plant, if any, should be sited as far from noise sensitive receivers (NSRs) as possible;		
		Machines and plant (such as trucks) that may be in intermittent use should be shut down		
		between work periods or should be throttled down to a minimum;		
		• Plant known to emit noise strongly in one direction should, wherever possible, be orientated		
		so that the noise is directed away from the nearby NSRs; and		
		• Material stockpiles and other structures should be effectively utilized, wherever practicable,		
		in screening noise from on-site construction activities.		

Remark:

- $\sqrt{}$ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by OSCAR Bioenergy JV
- Δ Deficiency of Mitigation Measures but rectified by OSCAR Bioenergy JV
- N/A Not Applicable in Reporting Period

Annex F

Waste Flow Table

		Actual Quant	ities of Inert C&D Mate	rials Generated		Actual Quan	itities of Non	-inert C&D Mat	erials (Constructio	on Waste) Generated
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
May 2015	29.58	0.00	0.00	0.00	29.58	0.00	0.00	0.00	0.00	0.00
June 2015	2226.90	0.00	0.00	0.00	2226.90	0.00	0.00	0.00	0.00	9.66
July 2015	2832.27	0.00	0.00	0.00	2832.27	0.00	0.00	0.00	0.00	33.68
August 2015	6657.25	0.00	0.00	0.00	6657.25	0.00	20.00	0.00	0.00	55.06
September 2015	5467.05	0.00	0.00	0.00	5467.05	3480.00	0.00	0.00	0.00	83.81
October 2015	5419.04	0.00	0.00	0.00	5419.04	18710.00	0.00	0.00	0.00	20.45
November 2015	1375.26	0.00	0.00	0.00	1375.26	21610.00	0.00	0.00	0.00	17.38
December 2015	2199.56	75.28	0.00	0.00	2124.28	0.00	41.00	0.00	0.00	21.83
January 2016	4601.43	0.00	0.00	0.00	4601.43	18140.00	50.00	0.00	640.00	20.86
February 2016	4167.01	0.00	0.00	0.00	4167.01	510.00	79.00	0.00	0.00	16.57
March 2016	299.92	41.28	0.00	0.00	258.64	22320.00	75.00	0.00	0.00	22.69
April 2016	3186.37	98.37	0.00	0.00	3088.00	60690.00	77.00	0.00	255.00	37.63
May 2016	1612.33	63.41	0.00	0.00	1548.92	13490.00	35000.00	0.00	0.00	40.76
June 2016	1144.73	30.43	0.00	0.00	1114.30	14600.00	120.00	0.00	0.00	58.34
July 2016	662.76	0.00	0.00	0.00	662.76	13370.00	0.00	0.00	0.00	40.48
August 2016	391.88	0.00	0.00	0.00	391.88	18660.00	84.00	0.00	0.00	61.91
September 2016	324.35	0.00	0.00	0.00	324.35	56800.00	2780.00	0.00	0.00	138.25
October 2016	1561.82	39.00	0.00	0.00	1522.82	40000	9.30	0.00	700.00	114.47
November 2016	897.23	507.94	00.00	0.00	389.76	0.00	123.00	0.00	0.00	154.22
December 2016	2477.95	489.00	0.00	0.00	1988.95	2960.00	93.00	0.00	0.00	136.80

No. EP/SP/61/10 of Organic Resources Recovery Centre (Phase I) Monthly Summary Waste Flow Table

		Actual Quant	ities of Inert C&D Mate	rials Generated		Actual Quan	tities of Non	-inert C&D Mat	terials (Construction	on Waste) Generated
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
January 2017	2150.92	503.60	0.00	0.00	1647.32	31240.00	21051.00	3630.00	0.00	127.43
February 2017	553.80	440.00	0.00	0.00	113.80	14940.00	18820.00	2880.00	460.00	83.46
March 2017	665.93	460.00	0.00	0.00	205.93	11660.00	29370.00	4400.00	660.00	99.59
April 2017	553.41	220.00	0.00	0.00	333.41	8600.00	25610.00	520.00	700.00	81.83
May 2017	388.82	211.00	0.00	0.00	177.82	1090.00	64.00	0.00	0.00	109.10
June 2017	352.12	104.00	0.00	0.00	248.12	1800.00	16400.00	12030.00	700.00	70.58
July 2017	400.72	165.00	0.00	0.00	235.72	6500.00	12330.00	4690.00	0.00	52.20
August 2017	589.89	202.00	0.00	0.00	387.89	23330.00	27079.00	5220.00	700.00	69.52
September 2017	3347.18	1364.00	0.00	0.00	1983.18	33379.00	29426.00	3990.00	0.00	62.82
October 2017	2384.86	984.00	0.00	0.00	1400.86	11842.00	34071.00	5230.00	0.00	74.13
November 2017	797.42	384.18	0.00	0.00	413.24	20210.00	25225.00	4030.00	0.00	163.03
December 2017	106.32	51.00	0.00	0.00	55.32	17650.00	19520.00	3210.00	0.00	82.23
January 2018	283.65	125.83	0.00	0.00	157.82	12900.00	15600.00	12330.00	0.00	30.93
February 2018	122.31	55.70	0.00	0.00	66.61	10950.00	13260.00	6570.00	0.00	16.95
March 2018	217.06	99.80	0.00	0.00	117.26	12260.00	12120.00	5960.00	0.00	32.53
April 2018	1118.36	460.58	0.00	0.00	657.78	16320.00	12590.00	6280.00	0.00	33.90
May 2018	475.54	198.85	0.00	0.00	276.69	15230.00	11024.00	0.00	0.00	40.02
June 2018	684.10	256.50	0.00	0.00	427.60	14320.00	10260.00	2630.00	0.00	43.01
July 2018	93.99	42.00	0.00	0.00	51.99	11220.00	6200.00	0.00	0.00	59.77
August 2018	528.56 (See Note 4)	225.00	0.00	0.00	303.56	13620.00	33400.00	26760.00	0.00	44.50
Total	63367.03	7897.28	0	0.00	55469.75	594401.00	411971.3	110360.00	4815	2462.38

Notes: (1) Metal and paper/cardboard packaging were collected by recycler for recycling.

- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.
- (3) General refuse was disposed of at NENT by subcontractors.
- (4) In total, 528.56 tonnes of inert C&D material were generated from the Project, of which the 303.56 tonnes were disposed as public fill to Fill Bank at Tuen Mun Area 38 in reporting period and the 225.00 tonnes were reused in this contract.

Annex G

Environmental Complaint, Environmental Summons and Persecution Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
May 2015	0	0
June 2015	0	0
July 2015	0	0
August 2015	0	0
September 2015	0	0
October 2015	0	0
November 2015	0	0
December 2015	0	0
January 2016	0	0
February 2016	0	0
March 2016	0	0
April 2016	0	0
May 2016	0	0
June 2016	0	0
July 2016	0	0
August 2016	0	0
September 2016	0	0
October 2016	0	0

Annex G Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2016	0	0
December 2016	0	0
January 2017	0	0
February 2017	0	0
March 2017	0	0
April 2017	0	0
May 2017	0	0
June 2017	0	0
July 2017	0	0
August 2017	0	0
September 2017	0	0
October 2017	0	0
November 2017	0	0
December 2017	0	0
January 2018	0	0
February 2018	0	0
March 2018	0	0
April 2018	0	0
May 2018	0	0
June 2018	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
July 2018	0	0
August 2018	0	0
Overall Total	0	0

Annex H

Odour Monitoring Result

Annex H1

Odour Patrol Result





Patrol route and monitoring locations

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	1/8/2018
Start & End Time (24hr)	From 13=39 To [4:0]
Type of Patrol	Weekly / Monthly / Ac hoe / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	(1)/2/3/4/5/6/7/8 (0)/1/2/3/4
Relative Humidity (%)	RD RD
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	
Characteristic of Odour	U V
Possible Source of Odour	
Monitoring Point	1 /(2)/3/4/5/6/7/8
Intensity of Odour	1 /(2)/3/4/5/6/7/8 0/(1)/2/3/4 (1)/2/3/4 (1)/2/3/4
Characteristic of Odour	(A) Hot Plate anell (Mining)
Possible Source of Odour	- Biogas Holder
Monitoring Point	1 / 2 / (3) / 4 / 5 / 6 / 7 / 8
Intensity of Odour	Biogas Holder 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	U
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / (4) / 5 / 6 / 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	U U
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5)/ 6 / 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	V
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 /(6)/ 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romankic	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Patrick Mim		SADU Scrah
Signature	Find	K	NA	1. Sarah
Date	1/8/2018	01/08/12		81/86/10

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OSCAR Bioenergy Joint Venture

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	8/2018
Start & End Time (24hr)	From 13:39 To 14:01
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up-/ T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	32.8
Relative Humidity (%)	80
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 /(7)/ 8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 /(7)/ 8</u> (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	V
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 1/1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romanker	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Patrick ym		Sacher Sarah
Signature	Find	A	VIA	M. Soral
Date	1/8/2018	01/08/18		01/08/18

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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	3/8/2018
Start & End Time (24hr)	From 15:04 To 15:31
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	29°C
Relative Humidity (%)	10
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(1)/2/3/4/5/6/7/8 $(0)/1/2/3/4$
Characteristic of Odour	011121314
Possible Source of Odour	
Monitoring Point	1/(2)/3/4/5/6/7/8
Intensity of Odour	$\frac{1 / (2) / 3 / 4 / 5 / 6 / 7 / 8}{0 / (1) / 2 / 3 / 4}$
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogre Holdon Some
Monitoring Point	1/2/(3)/4/5/6/7/8
Intensity of Odour	PSV of Biogas Holder Samh 1/2/3/4/5/6/7/8 (0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/(4)/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	0,127011
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	0.27374
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	9/1/2/0/4
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Vatrille gim		Sarah HO
Signature	Fas	4 t	NA	Sarah.
Date	3/8/2018	2/8/.0		318118



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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	3 / 8 / 2018
Start & End Time (24hr)	From 15:04 To 15:31
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	29
Relative Humidity (%)	70
Monitoring Point	
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	Q
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 /(8)</u> (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Represențative,	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Patrick My		Sourah HO
Signature	Ford	A	NA	Sarah
Date	3/8/2018	3/8/10		3/8/18



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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	6/8/2018
Start & End Time (24hr)	From 14:59 To 15=24
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	29.9
Relative Humidity (%)	71
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(1) / 2 / 3 / 4 / 5 / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Characteristic of Odour	0,
Possible Source of Odour	
Monitoring Point	1/(2)/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	Hot Plactic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	PSV of Biogas Holder 1/2/(3)/4/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	0, 1, 2, 2, 1, 1
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	0, = + = + + + +
Possible Source of Odour	
Monitoring Point	1/2/3/4/(5)/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel Chai	Vatrickin		Sarah HO
Signature	2l	4	NĂ	Sarah.
Date	6/8/2018	6/8/2018		6/8/2018



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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	6/8/2018
Start & End Time (24hr)	From 14:59 To 15:24
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	29.9
Relative Humidity (%)	11
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	
Characteristic of Odour	moldy smell
Possible Source of Odour	mold g Shiell
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	<u>(0)</u> /1/2/3/4
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	0/11/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	011141514
Possible Source of Odour	1
Follow-up Actions Remark	- F-

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Danlel Choi	Vetrile Im		Sarah Ho
Signature	2.1	F	NA	Sarrah.
Date	6/8/2018	6/8/2018		6/8/2018



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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	8 August 2018
Start & End Time (24hr)	From 14:11 To 14:40
Type of Patrol	From 14:11 To 14:40 Weekly/Monthly/Ac hoc/Follow-up/ 18 C Patrol.
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	31°
Relative Humidity (%)	69 576
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	
Characteristic of Odour	Hot Mastic Smell (Internitent
Possible Source of Odour	PSU of Rinner Heldon
Monitoring Point	1 1(2) 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1) 2 / 3 / 4
Characteristic of Odour	Hot Rate cmall (waitmon)
Possible Source of Odour	1/2/3)/4/5/647/8
Monitoring Point	1 / 2 / 3 // 4 / 5 / 6 4 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\frac{1/2/3/4}{(9)/1/2/3/4}$
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	$\frac{1 / 2 / 3 / 4 / 5 / 6 / 7 / 8}{(0) 1 / 2 / 3 / 4}$
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	V
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Patrick Mui		Terence (HAI
Signature	For	A.	NA	len
Date	8/8/2018	P/8/2018		8 18/2011



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Organic Resources Recovery Centre (Phase 1)

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Parameter	Observations
Date	From 14:11 To 14:40
Start & End Time (24hr)	From 14:11 To 14:40
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ TSC Pahol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	31°c
Relative Humidity (%)	6920
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Mostric smell (Internitent)
Possible Source of Odour	P(1) 27 Birans Hilder
Monitoring Point	P(1) 20 Biogas Hilder 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Patrick Nui		Terence (HAN
Signature	Find	4-	NĄ	ton
Date	8/8/2018	8/ 2/2018		81812010

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Observations
10 August 2018
From (5:02 To (5:2)
Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Sunny / Cloudy / Windy / Humid / Foggy /
$ \begin{array}{c} $
7492
(1)/2/3/4/5/6/7/8
(0)/1/2/3/4
1/(2)/3/4/5/6/7/8
<u>1 / (2) / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / (1) / 2 / 3 / 4
0/(1/2/3/4 Hot Plastic Snell PSU of Biogas Hildor 1/2/3/4/5/6/7/8 (0/1/2/3/4
P(1) of Employ Haldon
1 / 2 / (3)/ 4 / 5 / 6 / 7 / 8
(0)/1/2/3/4
0
1 / 2 / 3 / (4)/ 5 / 6 / 7 / 8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1 / 2 / 3 / 4 / (5) / 6 / 7 / 8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
V
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Dutitk Uhn		Telence (UAN
Signature	Fers	-	VA	(en
Date	10/8/2018	10/08/12		10/8/2018-

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	LO August 2018
Start & End Time (24hr)	From (5:02 To (5:2)
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up-/ T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	2100
Relative Humidity (%)	7470
Monitoring Point	
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romarky	
- Outrick (white de Sal dat sme	Il fin Contractor office, installatu at floor SUMA
- M I	in the contractor office, instantia of star surra

Outside main Lobby, carpak, smell of foodwaste.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIOXA LAM	Xotvolc and		Telence CITAN
Signature	Find		NA	Ten
Date	10 8 2018	10/06/12		10/8/2018

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	13 / 8 / 2018
Start & End Time (24hr)	From [3:1] To 13:36
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	31.8
Relative Humidity (%)	81
Monitoring Point	(1) / 2 / 3 / 4 / 5 / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	V
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1 / 2 /(3) / 4 / 5 / 6 / 7 / 8
Intensity of Odour	Hot Plastic PSV of Biogas Holder. 1/2/3/4/5/6/7/8 0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 /(4)/ 5 / 6 / 7 / 8
Intensity of Odour	<u>1 / 2 / 3 /(4)/ 5 / 6 / 7 / 8</u> (0/ 1 / 2 / 3 / 4
Characteristic of Odour	~
Possible Source of Odour	-
Monitoring Point	1 / 2 / 3 / 4 /(5)/ 6 / 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	U U
Possible Source of Odour	
Monitoring Point	<u>1 / 2 / 3 / 4 / 5 / 6</u> / 7 / 8 (0) 1 / 2 / 3 / 4
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remarker	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel Choi	Patricleym		Sarah Ho
Signature	- il	the	VA	Sarah
Date	13/8/2018	13/08/2018		13/8/2018

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OSCAR Bioenergy Joint Venture

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	13 / 8 / 2018
Start & End Time (24hr)	From 13:17 To 13:36
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	31.8
Relative Humidity (%)	8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	U
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	1
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/8/4/5/6/7/8
Intensity of Odour	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romankic	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Danlel Chri	Valia Jan		Sowah HO
Signature	ril	P	NA	Sarah
Date	13/8/2018	13/08/2018		13/8/2018

Document Title: Odour Patrol Procedure Prepared By: Terence CHAN Approved By:

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SUEZ @ATAL @RosRoca

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	15 Angust 2019
Start & End Time (24hr)	From 13:25 To 14:05
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny (Cloudy) Windy / Humid / Foggy /
Temperature (°C)	2200
Relative Humidity (%)	7790
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c} 770 \\ (1/2/3/4/5/6/7/8 \\ 0/1/2/3/4 \end{array}$
Characteristic of Odour	Smell of advencive / glue, / intermiter
Possible Source of Odour	Turkelletim of Tenculation of CHP
Monitoring Point	Turtallation of insulation at CHP 1/(2)/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Mastric Small
Possible Source of Odour	PSV of Rivers Holder-
Monitoring Point	PSV of Biogram Holder - 1/2/3/4/5/6/7/8
Intensity of Odour	0 1 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/14/5/6/7/8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	U de la companya de l
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/70/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
P-11	lastic smell than previous patrol.

Brilding 2 neur Polyner storage norm, outside Louvaner, Small of digertake

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIDNA LAM	Hotrick Im		Tetence (HAN
Signature	Fina	F	VA	(en
Date	151812018	15/8/2018		151812018

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

$\frac{5 \text{ August 2015}}{7335 \text{ To } /4.05}$ Monthly/Ac hoc/Follow-up/T&C Period Patrol Toudy/Windy/Humid/Foggy/ $\frac{32^{\circ}\text{C}}{7770}$ $\frac{7770}{1 / 2 / 3 / 4 / 5 / 6 / (7) 8}$ $\frac{0}{1 / 2 / 3 / 4}$ Swell of prophy charge material, $\frac{5 \text{ from ge material}}{1 / 2 / 3 / 4}$ $\frac{1 / 2 / 3 / 4 / 5 / 6 / 7 / 8}{0 / 1 / 2 / 3 / 4}$
$\begin{array}{r} \hline Monthly / Ac hoc / Follow up / T&C Period Patrol [oudy] Windy / Humid / Foggy / 32°C 7770 1 / 2 / 3 / 4 / 5 / 6 / (7) 8 (0) / 1 / 2 / 3 / 4 Smell of pageby charge material 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8$
Monthly/Ac hoe/Follow up/T&C Period Patrol Toudy Windy / Humid / Foggy / 33°C 7770 1 / 2 / 3 / 4 / 5 / 6 / (7) 8 0/ 1 / 2 / 3 / 4 Smell of prophy chroage meterial 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0/ 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Image: Strage multiple 1 / 2 / 3 / 4 / 5 / 6 / (7) 8 0 / 1 / 2 / 3 / 4 5 / 1 / 2 / 3 / 4 5 / 1 / 2 / 3 / 4 5 / 1 / 2 / 3 / 4 5 / 1 / 2 / 3 / 4 5 / 1 / 2 / 3 / 4 5 / 1 / 2 / 3 / 4 5 / 1 / 5 / 6 / 7 / 8 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
33°C 77970 1/2/3/4/5/6/7/8 0/1/2/3/4 Smell of prophy change material shraye material 1/2/3/4/5/6/7/8 1/2/3/4/5/6/7/8
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 (D) 1 / 2 / 3 / 4 Smell of pagety storage material 5 / vay e material 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 (1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Smell of namby chrays inderive Stray e material 1/2/3/4/5/6/7/8 1/2/3/4/5/6/7/8
Smell of prophy charage inchestor Stray e michorail 1/2/3/4/5/6/7/8 1/2/3/4/5/6/7/8
1/2/3/4/5/6/7/8
1/2/3/4/5/6/7/8
1/2/3/4/5/6/7/8
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
1/2/3/4/5/6/7/8
0 / 1 / 2 / 3 / 4
1/2/3/4/5/6/7/8
0/1/2/3/4
1/2/3/4/5/6/7/8
0 / 1 / 2 / 3 / 4
f food waste.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Vatrick MM		Terence CHAN
Signature	Find	R	VA	tu
Date	15/8/2018	151812018		15/8/2018

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OSCAR Bioenergy Joint Venture

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

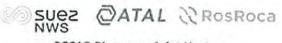
Parameter	Observations
Date	17 August 206
Start & End Time (24hr)	From N/A To NA
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/ Rainy
Temperature (C)	N/A WINY
Relative Humidity (%)	N/A
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remarks	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Teresa Na	Portrale din		Terence (HAN
Signature	2	R	VA	
Date	17/8/2018	17/8/18		C 17/8/2014

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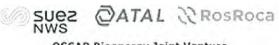


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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	20 18 / 2018
Start & End Time (24hr)	From $15 = 10$ To $15 = 18$
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Powind
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28.5
Relative Humidity (%)	87
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(1) / 2 / 3 / 4 / 5 / 6 / 7 / 8 $(0) / 1 / 2 / 3 / 4$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2) / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / (3) / 4 / 5 / 6 / 7 / 8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	() · · · · · · ·
Possible Source of Odour	
Monitoring Point	1/2/3/4)/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5) / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6)/ 7 / 8</u> (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Represențative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel CHOI	Potricle Jun		Sarah Ho
Signature	2.8	Z	NA	Sarch
Date	20/8/2018	20/8/18		2018/2018



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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	20/8/2018
Start & End Time (24hr)	From 18=10 To 15=28
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28.5
Relative Humidity (%)	8)
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7) / 8 (0) / 1 / 2 / 3 / 4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 1 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / 1 / 2 / 3 / 4
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel CHOI	Votrile IM		Sarah Ho
Signature	Sil	12	NA	Savah.
Date	20/8/2018	20/0/19		201812018

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Date Start & End Time (24hr) Type of Patrol	22 August 2018
Type of Patrol	From $/4:06$ To $/4:22$
	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (℃)	220
Relative Humidity (%)	$\begin{array}{c} 740_{6} \\ (1) 2 / 3 / 4 / 5 / 6 / 7 / 8 \\ \hline 0 / 1 / 2 / 3 / 4 \end{array}$
Monitoring Point	(r)/2/3/4/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/(2)3/4/5/6/7/8
Intensity of Odour	$\frac{1/(2)/3/4/5/6/7/8}{0/(1)/2/3/4}$
Characteristic of Odour	Hot Plaetic small
Possible Source of Odour	PSI/ of Kanpa Intelegate
Monitoring Point	PSV of Kiegas Holden 1/2/3/4/5/6/7/8
Intensity of Odour	0) 1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/(4) 5/6/7/8
Intensity of Odour	$\frac{1/2/3/(4)/5/6/7/8}{(0)/1/2/3/4}$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/576/7/8
Intensity of Odour	$\frac{1/2/3/4/(5)/6/7/8}{(0)/1/2/3/4}$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/677/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6) 7 / 8</u> (0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Komanke	auther of PSVHhe Jes holder, intermittent smell hear level

EPD Employer Independent OSCAR Representative Representațive Odour Patrol Team Bioenergy JV Name CLO DANG M Telence (HAN) Signature NA ٤ Date 22 ふ 18/2-18

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	22 August 2018
Start & End Time (24hr)	From 14:06 To
Type of Patrol	Weeldy / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	(Sunny/)Cloudy / Windy / Humid / Foggy /
Temperature (C)	33°C
Relative Humidity (%)	749
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/(8)
Intensity of Odour	TOV 1 / 2 / 3 / 4
Characteristic of Odour	0
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
· Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Komarker	
······································	

	EPD	Employer	Independent	OSCAR
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Representative	Representative 1	Odour Patrol Team	Bioenergy JV
Name	Daniel CHOI	Vatrick Am		TELEUCE (HAN
Signature	0			- province the second
	sit		NA	
Date	22/8/2012	22/2/12		DD / FIDALE
	1 /			~~~ 1 01 26(G)

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#### Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	24/8/2018
Start & End Time (24hr)	From 14:05 To 14:32
Type of Patrol	Weekly/Monthly/Achoe/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28
Relative Humidity (%)	87
Monitoring Point	1)/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	Here Aller Sawah,
Possible Source of Odour	TSW OF BRIDES ACARDER
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1 / 2 /(3)/ 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> (0)/ 1 / 2 / 3 / 4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	<u>1 / 2 / 3 / 4 /(5) / 6 / 7 / 8</u> (0) / 1 / 2 / 3 / 4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	<u> </u>
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	Sarah (1)/2/3/4
Characteristic of Odour	Similar Hot Plastic
Possible Source of Odour	Comporting area (front follor shutter doo
Follow-up Actions Remark	er area has similar plastic smell.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Destricte Inn		Sarah HO
Signature	Fas	- A	NA	Sarah
Date	24/8/2018	24/8/18		24/8/2010



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## Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	24/8/2018
Start & End Time (24hr)	From 14:05 To 14:32
Type of Patrol	Weekly/Monthly/Achoe/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28
Relative Humidity (%)	87
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7/ 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	(9+1+2+5++
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	0, 1, 2, 3, 4
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	011121314
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 0 / 1 / 2 / 3 / 4
Characteristic of Odour	011121314
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	911121314
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	011121314
Possible Source of Odour	
Follow-up Actions Remark	V

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Yourche ym		Sarah Ho
Signature	Find	A Company	NA	Savala.
Date	24/8/2018	24/8/18		24/8/2018

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#### 6. Appendix

# Organic Resources Recovery Centre (Phase 1)

## Odour Patrol Record Log Sheet

Parameter	Observations
Date	27- August 2018
Start & End Time (24hr)	From 14:05 to 14:25
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	20°C
Relative Humidity (%)	<u>\$59</u>
Monitoring Point	1)/2/3/4/5/6/7/8
Intensity of Odour	(0) 1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2Y3/4/5/6/7/8
Intensity of Odour	$\frac{1/(2) 3/4/5/6/7/8}{0/(1)/2/3/4}$
Characteristic of Odour	the place could be the
Possible Source of Odour	PSIL of Bring Hell
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/(4)/5/6/7/8
Intensity of Odour	1 / 2 / 3 / (4) / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5)/6/7/8
Intensity of Odour	<u>1 / 2 / 3 / 4 /(5) / 6 / 7 / 8</u> (1) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/17/8
Intensity of Odour	1 / 2 / 3 / 4 / 5 /(6)/ 7 / 8 (8) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Komanker	
Point 2. Hot plastic simel An	m PSV of gas holder, Sting Tinternis Heat small,
	$\sim$

EPD Independent Employer OSCAR Representative Representative Odour Patrol Team Bioenergy JV Name Jutrile your Choi Terence CAAN Signature NA Date 27.8.18 20cl iguet 2018

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# Organic Resources Recovery Centre (Phase 1)

# Odour Patrol Record Log Sheet

Parameter	Observations
Date	27 Aveust 2018
Start & End Time (24hr)	From $14 - 7$ To $14 - 7$
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny (Cloudy) Windy / Humid / Foggy /
Temperature (C)	29°c
Relative Humidity (%)	PT-02
Monitoring Point	1/2/3/4/5/6 (7)/8
Intensity of Odour	
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	$\frac{1/2/3/4/5/6/7/(8)}{(9/)^{1/2/3/4}}$
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Charácteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	3+2+3+4
Possible Source of Odour	
Follow-up Actions Komankr	
······································	

	EPD Representative	Eniployer Representative	Independent Odour Patrol Team	OSCAR
Name	Daniel Choi	Potitic Im	Odour ration ream	Bioenergy JV Terence (HAN)
Signature	Jel	R	NIA	Icne
Date	27. 8. 2015	27.8.13		ZT August 2018
				$\Box$

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# Organic Resources Recovery Centre (Phase 1)

#### Odour Patrol Record Log Sheet

Parameter	Observations		
Date	29 August 2018		
Start & End Time (24hr)	From N/A To N/A		
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol		
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/ Rain.		
Temperature (°C)			
Relative Humidity (%)			
Monitoring Point	1/2/3/4/5/6/7/8		
Intensity of Odour	0 / 1 / 2 / 3 / 4		
Characteristic of Odour	011121314		
Possible Source of Odour			
Monitoring Point	1/2/3/4/5/6/7/8		
Intensity of Odour	0/1/2/3/4		
Characteristic of Odour	011121314		
Possible Source of Odour			
Monitoring Point	1/2/3/4/5/16/7/8		
Intensity of Odour	0 / 1 / 2 / 3 / 4		
Characteristic of Odour	011171314		
Possible Source of Odour			
Monitoring Point	1/2/3/4/5/6/7/8		
Intensity of Odour	0 / 1 / 2 / 3 / 4		
Characteristic of Odour	1011121514		
Possible Source of Odour			
Monitoring Point	1/2/3/4/5/6/7/8		
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4		
Characteristic of Odour			
Possible Source of Odour			
Monitoring Point	1/2/3/4/5/6/7/8		
Intensity of Odour	0/1/2/3/4		
Characteristic of Odour			
Possible Source of Odour			

Odour Pateol was cancellal due to the rainy weather condition

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Dat TR/C 1m		Terence CHAN
Signature	Find	5	NA	Central Centra
Date	29/8/2018	29/8/12		20 August 204

Document Title: Odour Patrol Procedure Prepared By: Terence CHAN Approved By:

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6. Appendix

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1

# Organic Resources Recovery Centre (Phase 1)

# **Odour Patrol Record Log Sheet**

Parameter	Observations
Date	3/18/2018
Start & End Time (24hr)	From 0:22 To 10:41
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28
Relative Humidity (%)	77
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	<u>() / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> () / 1 / 2 / 3 / 4
Characteristic of Odour	*
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / ① / 2 / 3 / 4
Characteristic of Odour	plastic
Possible Source of Odour	plastic packing
Monitoring Point	plastic packing 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> (0 / 1 / 2 / 3 / 4
Characteristic of Odour	V V
Possible Source of Odour	
Monitoring Point	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> (0) / 1 / 2 / 3 / 4
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	¥ ·
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Patrick ym	Ho Tos Kin Biller Poor	Sarah HO
Signature	Fus	P	It Kepon	Savah
Date	3118/2018	Y/0/10	31/8/2018	31/8/2018

Revision: Draft



6. Appendix

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# Organic Resources Recovery Centre (Phase 1)

# **Odour Patrol Record Log Sheet**

Parameter	Observations
Date	31/8/2018
Start & End Time (24hr)	From /0:22 To 10:41
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28
Relative Humidity (%)	77
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	ý.
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	12

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Potrizk MM	ApTszkin/AllenPoor	Sarah Ho
Signature	Fins	R	A pipon	Sarah
Date	31/8/2018	3/R/2012	31/8/2018	31181201

QATAL RosRoca SUez

6. Appendix

# Organic Resources Recovery Centre (Phase 1)

# Odour Patrol Record Log Sheet

Parameter	Observations
Date	31 AUGUST 2018
Start & End Time (24hr)	From 18:01 To 18:19
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny /Cloudy / Windy / Humid / Foggy /
Temperature (°C)	27 8 or
Relative Humidity (%)	82141
Monitoring Point	DAT ( DI2131415161710
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	01/2/3/4
Possible Source of Odour	
Monitoring Point	1/6)/3/1/5/6/7/0
Intensity of Odour	$\frac{1 / (2) / 3 / 4 / 5 / 6 / 7 / 8}{0 / (1) / 2 / 3 / 4}$
Characteristic of Odour	PLASTIC SMELL
Possible Source of Odour	Topic med
Monitoring Point	1/2/(3)/1/5/6/2/0
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/0/5/6/5/0
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> (0) 1 / 2 / 3 / 4
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/0
Intensity of Odour	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	GRASSY SMELL
Possible Source of Odour	THE SMELL
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6) 7 / 8 (0) / 1 / 2 / 3 / 4
Characteristic of Odour	<u> </u>
Possible Source of Odour	
ollow-up Actions Remarker	

Name	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Signature	FIONA LAM	Ratrick fm	Hotszkin / Allen	EDWIN WONG
Date	31 81 2018	31/2 (D	A German	En.

Document Title: Odour Patrol Procedure Prepared By: Terence CHAN Approved By:

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Revision: Draft



6. Appendix

# Organic Resources Recovery Centre (Phase 1)

## **Odour Patrol Record Log Sheet**

Parameter	Observations
Date	31 AUGUST 2018
Start & End Time (24hr)	From 12:01 To 18:19
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/- T&C Period
Weather Condition	Sunny Cloudy/Windy/Humid/Foggy/
Temperature (°C)	27.8°C
Relative Humidity (%)	82.4%
Monitoring Point	1/2/3/4/5/6/(7)/8
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 /(7)/ 8</u> (0)/ 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 /(8)
Intensity of Odour	<u> </u>
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

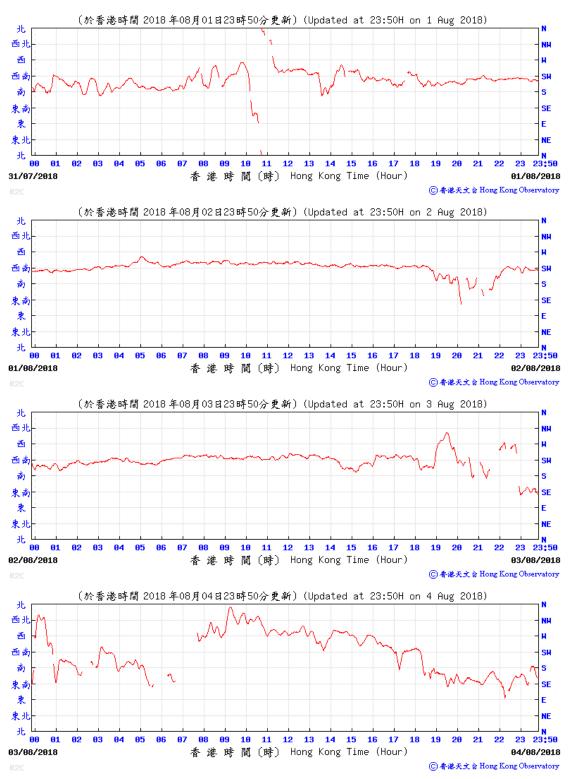
	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIDNA LAM	Desvirle Int	Ho Top Lin/Alla Door	VEDWIN WONG
Signature	Fas	R	D Kapan	Gen).
Date	31/8/2018	31/8/18	31/8/18	31/08/2018

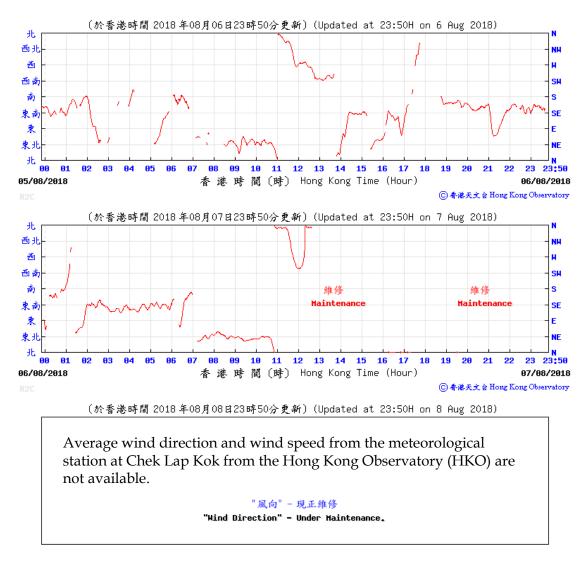
Revision: Draft

Annex H2

Local Wind Direction and Wind Speed

#### Wind Direction





R2C

ⓒ 春港天文 含 Hong Kong Observatory

(於香港時間 2018 年08月09日23時50分更新) (Updated at 23:50H on 9 Aug 2018)

Average wind direction and wind speed from the meteorological station at Chek Lap Kok from the Hong Kong Observatory (HKO) are not available.

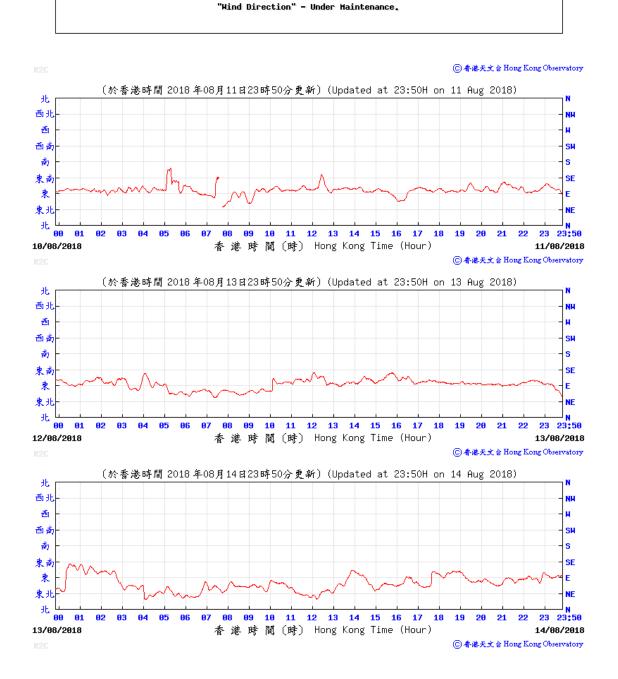
"風向" - 現正維修 "Wind Direction" - Under Maintenance.

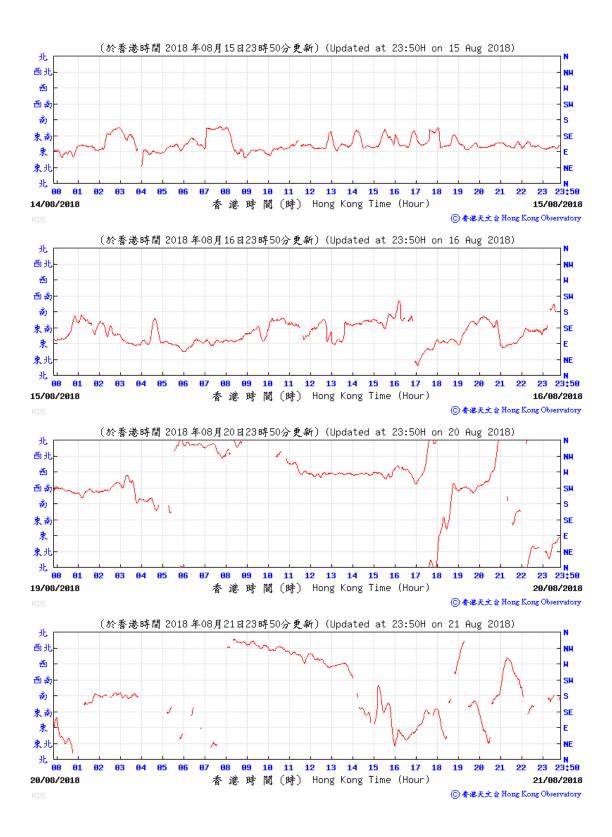
© 香港天文 含 Hong Kong Observatory

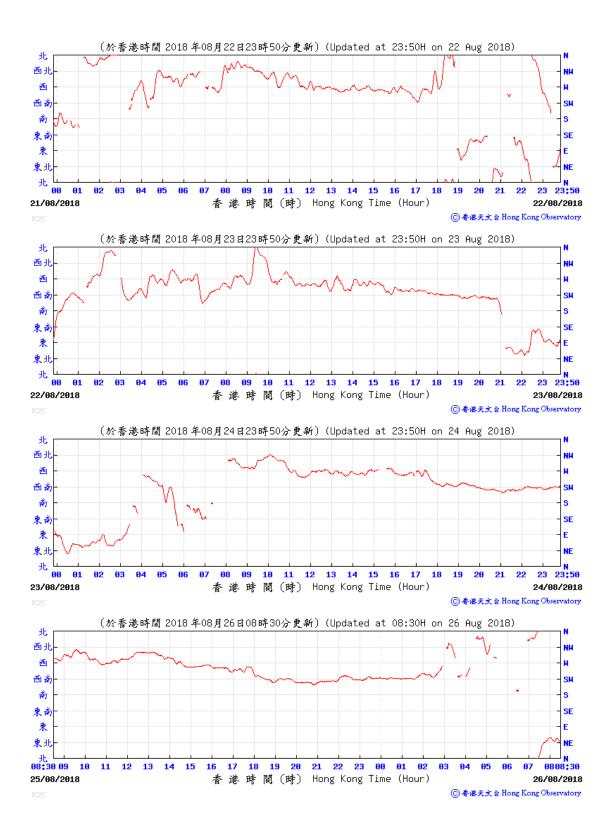


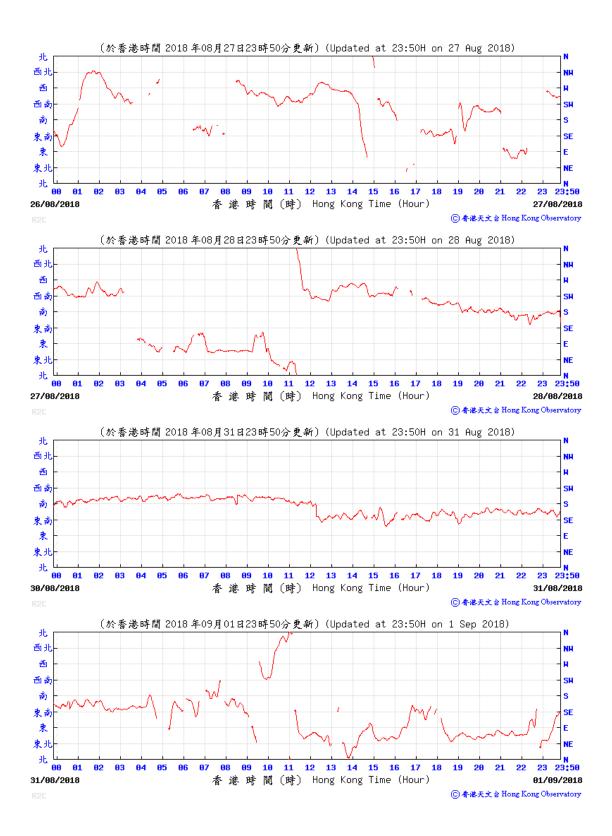
Average wind direction and wind speed from the meteorological station at Chek Lap Kok from the Hong Kong Observatory (HKO) are not available.

"風向"-現正維修

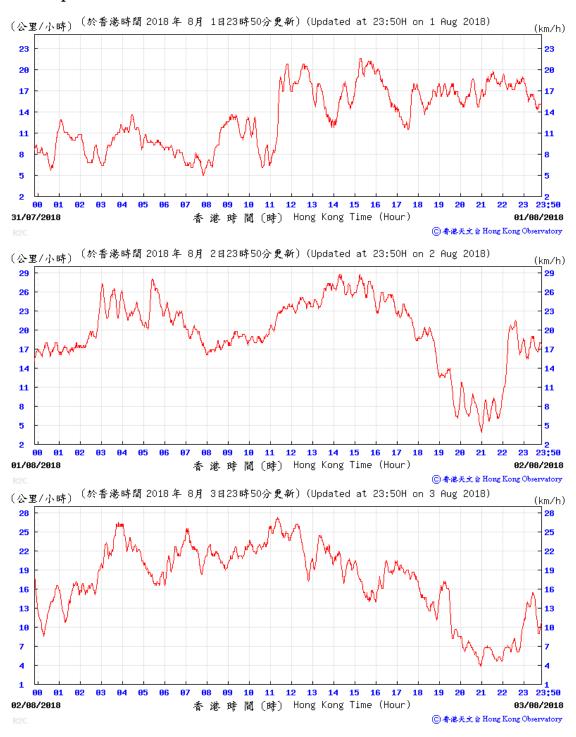


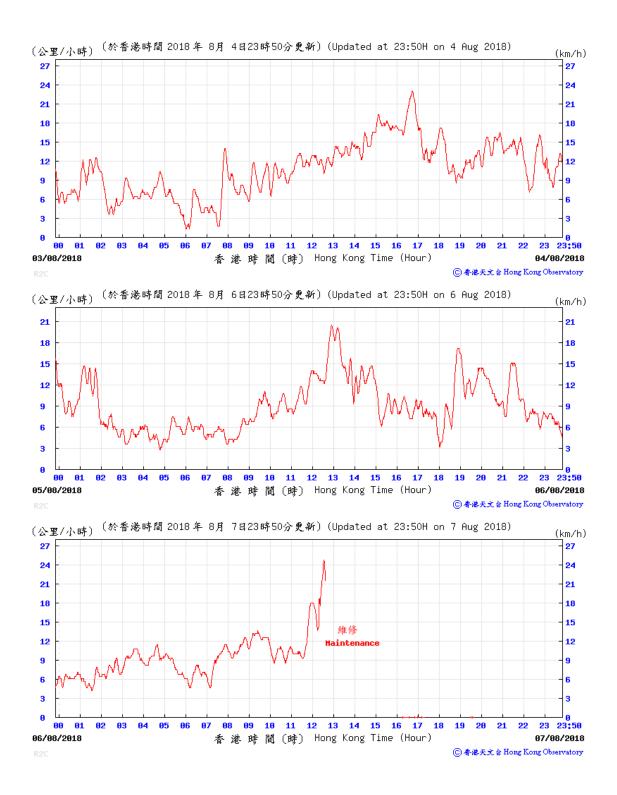






#### Wind Speed





(公里/小時) (於香港時間 2018 年 8月 8日23時50分更新)(Updated at 23:50H on 8 Aug 2018)

Average wind direction and wind speed from the meteorological station at Chek Lap Kok from the Hong Kong Observatory (HKO) are not available.

#### "風速" - 現正維修 "Wind Speed" - Under Maintenance.

⑥ 春港天文 含 Hong Kong Observatory

(km/h)

(公里/小時) ⁽於香港時間 2018 年 8月 9日23時50分更新) (Updated at 23:50H on 9 Aug 2018) (km/h)

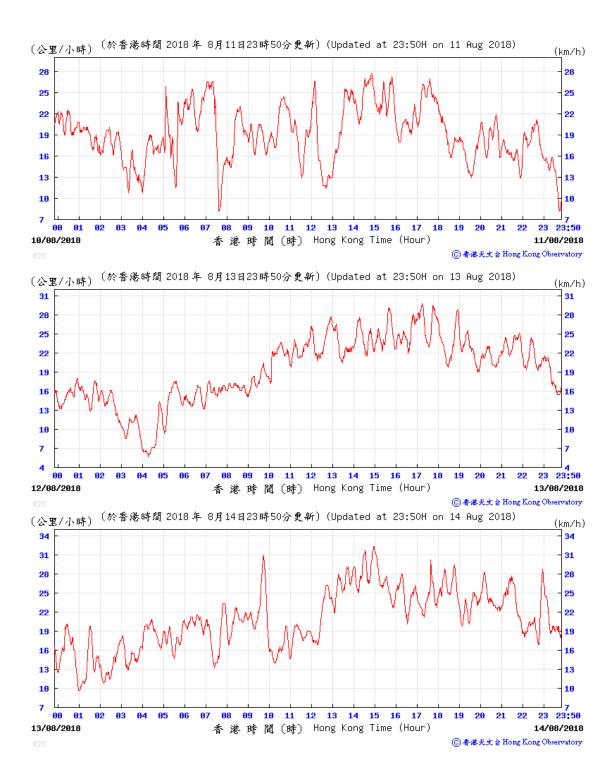
Average wind direction and wind speed from the meteorological station at Chek Lap Kok from the Hong Kong Observatory (HKO) are not available.

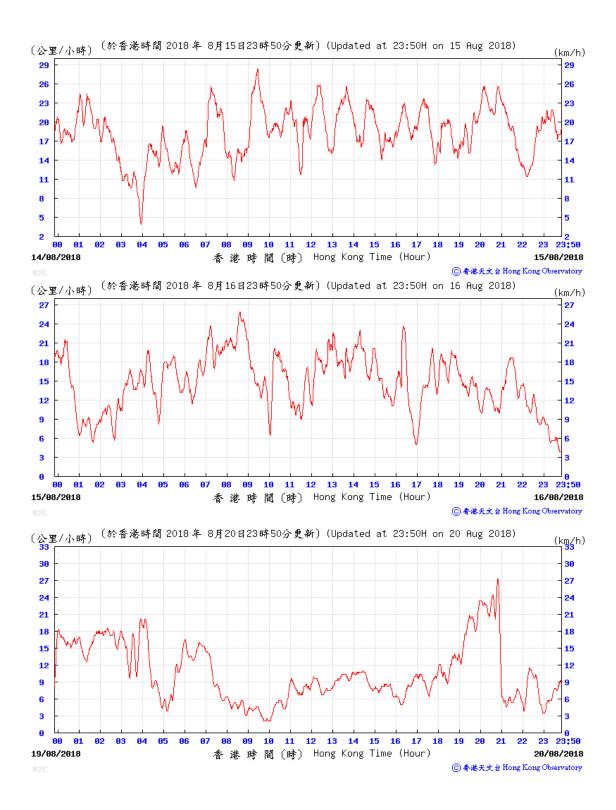
"風速" — 現正維修 "Wind Speed" — Under Maintenance.

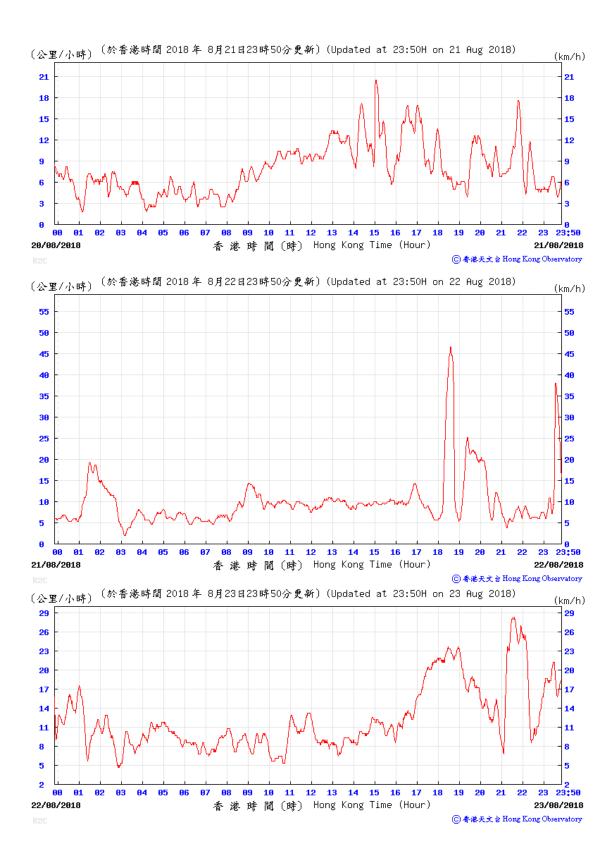


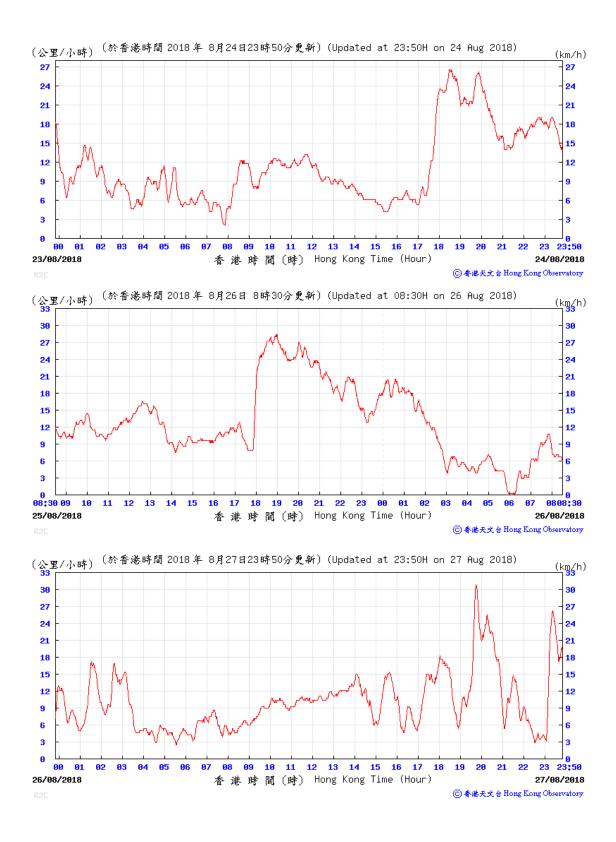
ⓒ 春港天文 含 Hong Kong Observatory

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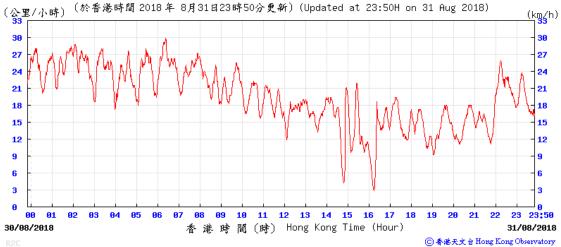


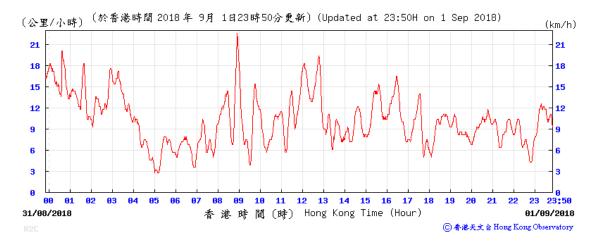












Annex H3

Action and Limit Levels for Odour Nuisance

# **Odour Intensity Level**

Level	Odour Intensity
0	Not detected. No odour perceived or an odour so weak that it cannot be easily
1	Slight identifiable odour, and slight chance to have odour
2	Moderate identifiable odour, and moderate chance to have odour
3	Strong identifiable, likely to have odour nuisance
4	Extreme severe odour, and unacceptable odour level

# Action and Limit Levels for Odour Nuisance

Parameter	Action Level	Limit Level
Odour Nuisance	When one documented	Two or more documented
(from odour	compliant is received ⁽¹⁾ , or	complaints are received ⁽¹⁾ within
patrol)	Odour Intensity of 2 is measured from odour	a week; or
	patrol.	Odour intensity of 3 or above is measured from odour patrol.

Note:

(1) Once the compliant is received by the Project Proponent (EPD), the

Project Proponent would investigate and verify the complaint whether it is related to the potential odour emission from the OWTF and its onsite wastewater treatment unit.

	ACTION		
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾	
ACTION LEVEL	Outour		
Exceedance of action level (Odour Patrol)	<ol> <li>Identify source/reason of exceedance;</li> <li>Repeat odour patrol to confirm finding.</li> </ol>	<ul> <li>1. Carry out investigation to identify the source/reason of exceedance. Investigation should be completed within 2 weeks;</li> <li>2. Rectify any unacceptable practice;</li> <li>3. Implement more mitigation measures if necessary;</li> <li>4. Inform DSD or the operator of the Siu Ho Wan Sewage Treatment Works (SHWSTW) if exceedance is considered to be caused by the operation of the SHWSTW.</li> <li>5. Inform North Lantau Refuse Transfer Station (NLTS) operator if exceedance is considered to be caused by the operation of NLTS.</li> </ul>	

# **Event and Action Plan for Odour Monitoring**

	ACTION	
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾
Exceedance	1. Identify	1. Carry out investigation and
of action	source/reason of	verify the complaint whether it
level (Odour	exceedance;	is related to potential odour
Complaints)	2. Carry out odour patrol to	emission from the nearby
	determinate odour	SHWSTW;
	intensity.	2. Carry out investigation to
		identify the source/reason of
		exceedance. Investigation
		should be completed within 2
		weeks;
		3. Rectify any unacceptable practice;
		4. Implement more
		mitigation measures if
		necessary;
		5. Inform DSD or the operator of
		the SHWSTW if exceedance
		is considered to be caused by
		the operation of the
		SHWSTW.

	ACTION			
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾		
LIMIT LEVEL				
Exceedance	1. Identify	1. Carry out investigation to		
of Limit	source/reason of	identify the source/reason of		
level	exceedance;	exceedance. Investigation		
	2. Inform EPD;	should be completed within 2		
	3. Repeat odour patrol to	week;		
	confirm findings;	2. Rectify any unacceptable practice;		
	4. Increase odour patrol	3. Formulate remedial actions;		
	frequency to bi-weekly;	4. Ensure remedial actions		
	5. Assess effectiveness of	properly implemented;		
	remedial action and keep EPD	5. If exceedance continues,		
	informed of the results;	consider what		
	6. If exceedance stops,	more/enhanced mitigation		
	cease additional odour	measures should be		
	patrol.	implemented;		

Note: ⁽¹⁾ Project Proponent shall identify an implementation agent

Annex I

Investigation Report

Date	13 August 2018	
Time	08:30 am	
Monitoring Location	Sequencing Batch Reactor 2 (SBR2) at P1	
	Building1 of the Site ((Detailed location and	
	photos shown on the marked drawing DR-	
	OAP-20-0-CA-1001 attached as <b>Appendix A</b> )	
Weather	Fine	
Parameter	Water (WPCO Effluent Discharge License	
	attached as Appendix B)	
Incident Description	<ol> <li>There are 3 Sequencing Batch Reactor 2 (SBR2) at the wastewater treatment plant of Organic Resources Recovery Centre Phase 1 (ORRC1), which are currently under testing and commissioning by T&amp;C team.</li> <li>Air was blowing into the SBR2 to treat the wastewater by aerobic digestion.</li> <li>Foam was generated and overflowed from vents of SBR 2, which was discovered at around 04:00 am on 13 Aug 2018 by OSCAR.</li> <li>During that period, the foam was not much and only at the roof of Building 1.</li> <li>At 08:30 am, it was discovered that some foam was overflowed from the vent of SBR 2 but no wastewater was overflowed.</li> </ol>	
Action Taken / Action to be Taken	<ol> <li>OSCAR immediately went to inspect the nullah at 08:35 am and at the time there was no observed spillage of foam into the nullah. The SOR team were on site at that morning and also observed the incident. When the ET site representative learned about this, she visited the site.</li> <li>OSCAR minimized and stopped the air blowing to the SBR 2, and fenced off the affected area.</li> <li>OSCAR also implemented control measures (blocked the rainwater channels using the absorption kit) to prevent the foam from entering into the stormwater channel.</li> <li>After clearing the foam and cleaned up the affected area, OSCAR team added anti-foam to SBR 2.</li> <li>OSCAR cleaned the Plant stormwater drain channel, and pumped the water out the drainage manhole to the Plant wastewater drains to prevent potentially contaminated stormwater from discharging into the nullah.</li> </ol>	

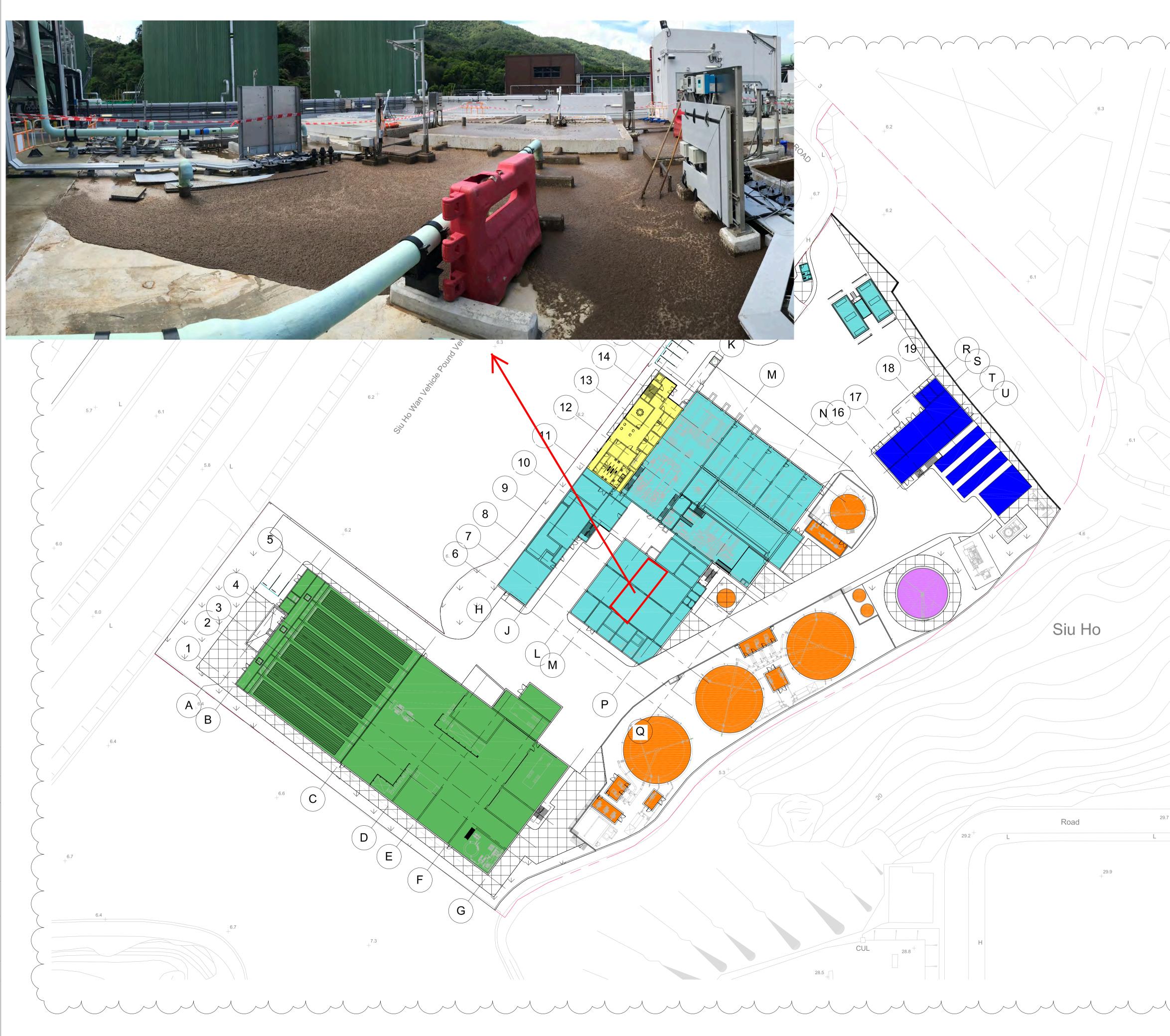
# Investigation Report of Environmental Non-Compliance

	<ul> <li>Polluted water was collected and discharged to the incoming waste bunker, photo records attached as Appendix E.</li> <li>6. ET helped to take a water sample under the supervision of ER's at the stormwater terminal discharge point on the same day and the analysis results showed that the water quality complied with the standards stipulated in the WPCO Effluent Discharge License. The laboratory testing reports were attached as Appendix C.</li> <li>7. Subsequent to the incident, OSCAR has arranged a toolbox training to the relevant site staff regarding the operation of the SBRs and the drainage system of the wastewater treatment plant and the Site so that they could know how to respond when similar incident occur in the future in order to avoid discharge of wastewater to the stormwater drainage system. Training record is provided in Appendix D.</li> </ul>
Remedial Works and Follow-up Actions	<ol> <li>The root cause of the incident was that antifoaming agent was not added to the SBR because the antifoaming agent was run out. After review the root cause of this incident, OSCAR should ensure that the antifoaming agent storage tank is not empty.</li> <li>OSCAR will also close monitoring of the foam level in the SBR tanks through CCTV and regular site inspections.</li> <li>OSCAR should also provide regular training/ briefing to the front line staff to regular check the level of the antifoaming agent in the storage tank.</li> <li>With proper implementation of these remedial measures, it is considered the chance of re-occurrence of such incident will be low.</li> </ol>

Prepared by:	Leah Pak, ET Représentatives
Date	4-September-2018

Annex A

# Project Layout



Plot Time: 05/03/15 21:20:07 Plot Location: C:\Users\mathew.brown\Documents\0WTF_Architectural Working Model (Combined) CEN_

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	30.3 +

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ERM ERM HONG KONG LIMITED						
Meinhardt Infrastructure and Environment Limited 邁進基建環保工程顧問有限公司						
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drawing title SITE LAYOUT						
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Appendix B

# WPCO Effluent Discharge License

本署檔號 OUR REF: 來函檔號 YOUR REF: 電 話 TEL NO. 圖文傳真 FAX NO. 電子郵件: E-MAIL: 網址:

1

#### (⁽⁾) in EP/RW/0000372289 Environmental Protection Department Environmental Compliance Division Regional Office (West)

8/F, Tsuen Wan Government Offices, 38 Sai Lau Kok Road, Tsuen Wan, New Territories

E

環境保護署 環保法規管理科 區域辦事處(西) 新界荃灣西樓角路38號 荃灣政府合署8樓

HOMEPAGE: http://www.epd.gov.hk

2417 6064

2411 3073

14 FEB 2017

# **BY REGISTERED POST**

OSCAR BIOENERGY JOINT VENTURE Room 702, 7/F, Lee Garden Two, 28 Yun Ping Road, Causeway Bay, Hong Kong Attn: Laurent BICKERT

Dear Sir/Madam,

### Water Pollution Control Ordinance (WPCO) (Cap 358) Variation of Licence (Licence No: WT00021482-2015) Pursuant to Section 28 of WPCO

I refer to your application received on 8 December 2016 made under Section 28 of the WPCO for the variation of your captioned licence. The Authority, pursuant to Section 28(4) & (7), hereby grants the applications with the following variations as shown in the Appendix:

- Discharge of effluent arising from leakage and pressure tests of water tanks is added;
- The new limits and varied self-monitoring and reporting requirement are added; and
- An annex is added to indicate the locations of discharge premises, discharge points and sampling points.

Please note that the expiry date of the licence remains unchanged and the licence with the varied terms and conditions (ie., the varied licence) is valid up to 31 May 2020. This letter plus the remaining valid parts of your existing licence form the varied licence. Please therefore attach this letter to your existing licence.

If you are aggrieved by any of the terms and conditions of the varied licence, you may appeal to the Appeal Board by lodging a notice of appeal under Section 29 in the prescribed manner and form within 21 days after receipt of this letter.

The granting of the application does not imply that the discharge/deposit from your premises is in compliance with the required limits as stipulated in the varied licence. It is your responsibility to ensure that the terms and conditions of the varied licence are complied with.

Should you have any enquiry, please feel free to contact Mr. LAW Yui-hung on 2417 6186.

Yours faithfully,

(LAM Ka-ho) for Director of Environmental Protection

Encl.: Appendix

## 掛號郵件

OSCAR BIOENERGY JOINT VENTURE 香港銅鑼灣恩平道28號 利園二期7樓702室 經辦人: Laurent BICKERT

192 833 1 先生/女士:

# 《水污染管制條例》(第358章) <u>根據《水污染管制條例》第28條更改牌照</u> (牌照編號: ₩T00021482-2015)

你根據香港法例第 358 章《水污染管制條例》第 28 條,於 2016 年 12 月 8 日就你的申請所述處所排放的污水/沉積物向本署遞交的更改牌照申請書已經收悉。監督現根據本條例第 28(4)及(7)條批准申請,並於附錄顯示下例更改:

新增由水缸滲漏及壓力測試所產生的污水排放;

新增新的限度及已更改的自行監測及報告的要求;及

新增附件顯示排放處所、排放點及取樣點的位置。

請注意, 牌照的有限期不變, 因此該牌照連同更改的條款及條件(即「已更改牌照」) 有效至 2020 年 5 月 31 日。此信件及現有牌照組成已更改牌照。因此請把此信件與現有牌照 一起存放。

如你對已更改牌照的條款及條件感到不滿,可於收到本信件後 21 天內,按本條例 第 29 條的規定,使用訂明的方式及表格,向上訴委員會遞交上訴通知書,提出上訴。

獲批准申請並不表示從你的處所排出的污水或污染物質已達到已更改牌照的條款 及條件所規定的排放限度。你必須採取必要措施,以確保符合已更改牌照中的條款及條件。

如有查詢,請致電 2417 6086 與本署 羅銳雄 先生聯絡。

環境保護署署長 (林嘉豪 代行)

附件: 附錄

二零一七年 月 日



# ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

Name of Licensee ("the Licensee") 持牌人名稱(「持牌人」)	SITA WASTE SERVICES LIMITED, ATAL ENGINEERING LIMITED and ROS-ROCA, SOCIEDAD ANONIMA jointly trading as OSCAR BIOENERGY JOINT VENTURE 昇達廢料處理有限公司、安樂工程有限公司及ROS-ROCA, SOCIEDAD ANONIMA 聯合經營的OSCAR BIOENERGY JOINT VENTURE			
Discharge Premises ("the premises") 排放處所(「處所」)	Construction Site of Working Area Portion 1 & 2, Organic Waste Treatment Facilities Phase 1 at Sham Fung Road, Siu Ho Wan, Lantau Island, Hong Kong (Contract No.: EP/SP/61/10)(as shown in Annex) 香港大嶼山小蠔灣深豐路有機資源回收中心第1期工作區第一及 第二部分的建築地盤 (合約編號: EP/SP/61/10) (如附件所示)			
Water Control Zone 水質管制區	North Western 西北部			
Discharge Category 排放種類	Discharge of Industrial / <del>Commercial / Institutional</del> * Trade Effluent 工業/ <del>商業/機構</del> * 污水排放			
Nature of Discharge and Wastewater Treatment Facilities 排放性質及廢水處理設施	<ul> <li>Stream A: Effluent arising from leakage and pressure tests of water tanks</li> <li>污水源 A: 由水缸滲漏及壓力測試所產生的污水</li> <li>Stream B: Effluent, surface run-off and all other wastewater discharges from the premises</li> <li>污水源 B: 上址排放的污水,地面徑流水及其他的廢水</li> <li>Stream A: Nil</li> <li>污水源 A: 無</li> <li>Stream B: Sand &amp; silt removal facilities and sedimentation tank</li> <li>污水源 B: 除沙設施及沉澱池</li> </ul>			
Discharge Point(s) 排 放 點	Stream A: D.P.A as shown in Annex 污水源 A: 如附件所示的 D.P.A Stream B: D.P.B as shown in Annex 污水源 B: 如附件所示的 D.P.B			
Sampling Point(s) 取樣點	Stream A: S.P.A as shown in Annex 污水源 A: 如附件所示的 S.P.A Stream B: S.P.B as shown in Annex 污水源 B: 如附件所示的 S.P.B			

1 2

#### PART B 乙部 : SPECIFIC CONDITIONS 特別條件

#### B1. Limitations on Discharge 排放限制

The quantity and composition of any discharge from the premises shall not exceed the limits stated in the table below^(Note a). All figures are upper limits unless otherwise indicated. All units are expressed as concentration in milligramme per litre unless otherwise stated.

任何源自處所之排放的量和成份不得超過下表所列的限度^{開進 a)}。除另予表明外,所有數字均為上限。除另予說明外,所有單位均以毫克/升的濃度表示。

	Limit 限度		
Determinand 測量物	Stream A 污水源 A	Stream B 污水源 B 40	
Flow Rate (m ³ /day) 流量 (立方米 / 日)	600		
pH (pH units) 酸鹼值(pH 單位)	6-9#	6-9#	
Suspended Solids 懸浮固體	30	30	
Chemical Oxygen Demand 化學需氧量	80	80	

#: Range 上下限

#### B2. Self-monitoring and Reporting 自行監測及報告

The Licensee shall perform self-monitoring as and when required by the Authority. 持牌人須在監督要求時進行自行監測。

The Licensee shall sample the discharge at the Sampling Point(s) and, at his own expense carry out analyses in accordance with the sample type and measurement frequency specified for each determinand named below:-

持牌人須在取樣點為排放抽取樣本,並依照下列指定的測量物、取樣形式及頻率,自資予以分析。

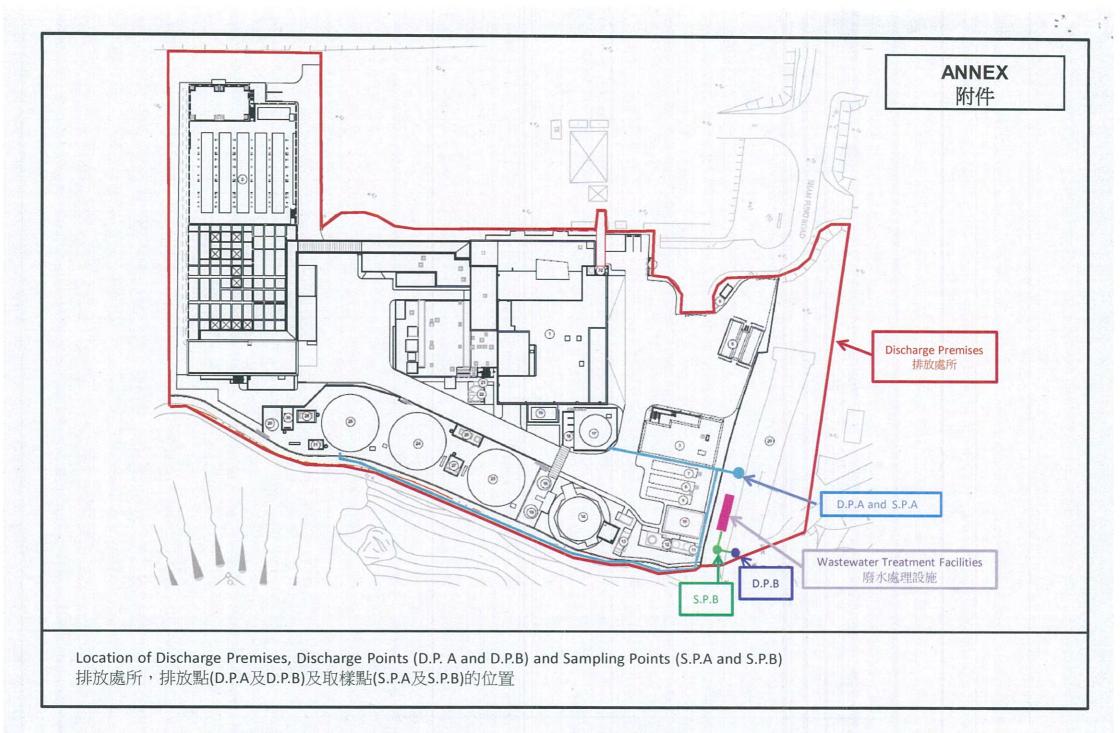
<u>Determinand 測 量 物</u>	<u>Unit 單位</u>	<u>Sample Type 取樣形式</u>	<u>Frequency 頻率</u>
Suspended Solids	mg/L	Grab	Monthly
懸浮固體	毫克/升	隨意取集	每一個月一次

Results of these monitoring shall be summarized in a report on a monthly / bi-monthly / quarterly * basis and shall be submitted to the Authority.

所有監測結果須以摘要形式,每一個月/兩個月/三個月*作出報告,並須呈交監督審閱。

2

*Delete as appropriate 將不適用者刪去



### . C 丙 部 : STANDARD CONDITIONS 標 準 條 件

#### 1. The Discharge 排放

- C1.1 The discharge shall not contain polychlorinated biphenyls (PCB), polyaromatic hydrocarbon (PAH), fumigant, pesticide or toxicant, chlorinated hydrocarbons, flammable or toxic solvents, calcium carbide; any substance likely to damage the sewer or to interfere with any of the treatment processes, or to be harmful to the health and safety of any personnel engaged in the operation or maintenance of a sewerage system; waste liable to form scum or deposits in any part of the drainage or sewerage system, or the waters of Hong Kong; waste liable to form discolouration in any parts of the waters of Hong Kong; sludge, floatable substances or solids larger than 10 mm; and sludge or solid refuse of any kind.
  排放不得含有多氯聯苯、聚芳烴、薰蒸劑、殺蟲劑或毒劑、氯化烴、可燃的或有毒的溶劑、碳化鈣; 會損毀污水渠結構或干擾任何處理程序的物質,或有損操作及維修排污系統人員健康及安全的任何物質;足以在排水或排污系統,或香港水域任何範圍內形成浮渣或沉積物的廢物;足以在香港水域任何範圍內形成變色的廢物;污泥、漂浮物質或體積超越10毫米的固體;及任何種類的污泥或固體垃圾。
- C1.2 No discharge shall bypass the wastewater treatment facilities, the Sampling Point(s) or the Discharge Point(s) unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.

除非避免人命傷亡或嚴重財物損失或無其他可行代替辦法,排放不得繞流不經其廢水處理設施,取樣點或排放點。

C1.3 Dilution of the discharge to achieve compliance with the limits contained in this licence is prohibited. 不得將排放稀釋,以求達到本牌照內所訂的限度。

#### C2. Flow Measurement 量度流量

The Licensee shall determine the flow rate of the discharge by installing, operating and maintaining a continuous flow measuring device with an accuracy certified by its manufacturer to be within plus or minus 3 percent of the actual flow, and calibrating the flow measuring device regularly according to manufacturer's recommendations. If no such device is installed, the Licensee shall determine the flow rate through using calculation methods agreed by the Authority, by making reference to the amount of water used in the premises being served by mains supply and other sources, less process consumption and any other losses.

持牌人必須設置、操作及保養一個連續性流量計作為測定排放的流量率之方法,其準確程度須經製造商證實為不 超逾或低於真正流量的3%,並應根據製造商建議的方法,定期校準流量計。如沒有設置該設備,持牌人須依照 監督同意的計算方法,根據處所由自來水及其他水源供應的總用水量減去工序耗水量及其他耗水量來測定流量 率。

#### C3. Treatment 處理

C3.1 The Licensee shall provide necessary wastewater treatment facilities, and shall engage personnel with adequate qualification and experience to properly operate and maintain all wastewater treatment facilities at all times. Standby equipment shall be provided to guard against failure of major treatment equipment.

持牌人須提供必需的廢水處理設施,並須僱用有足夠資格及經驗的人士,時常妥善操作及保養所有廢水處 理設施。主要處理設施須配有後備裝置,以應付故障發生。

C3.2 In the event of loss of efficiency of operation, or failure of all or part of the wastewater treatment facility, the Licensee shall take all reasonable steps to the extent necessary to maintain compliance with this licence. Such steps shall remain until operation of the wastewater treatment facility is restored or an alternative method of treatment is provided.

倘若部份或整個廢水處理設施操作失靈或發生故障,持牌人須採取所有必要的合理措施,以求達到符合本牌照的規定。此等措施須維持至廢水處理設施恢復如常操作或有其他代替的處理方法可供採用為止。

C3.3 If the wastewater treatment facilities are not properly operated and maintained to the satisfaction of the Authority, the Licensee shall take immediate and effective remedial actions as required by the Authority.

倘若廢水處理設施的操作及保養未能令監督滿意,持牌人須按監督之規定,採取即時及有效的補救行動。

EPD156

### C4. Disposal 棄置

Sludges, screenings, solids, oil and grease, filter backwash, or other pollutants removed in the course of treatment shall be disposed of in a proper manner^(Note b & c).

處理過程中所產生的污泥、隔濾物、固體、油脂、過濾器回洗或其他污染物,必須妥善地棄置^(開註b及c)。

#### C5. Monitoring 監測

C5.1 The Licensee shall provide and maintain suitable facility such as an inspection chamber, manhole sampling valve at each Sampling Point to enable duly authorized officer(s) of the Authority to tak samples of the discharge at any time from the premises.

持牌人須在每一個取樣點提供及保養適當的設施,例如檢查槽,沙井或取樣閥,以確保獲監督授權的人員 隨時可在處所內抽取排放樣本。

C5.2 For self-monitoring, "grab samples" shall be taken during the period when the determinand to be analyzed for is likely to be present in its maximum concentration. "Composite samples" shall include samples taken over daily duration of the discharge.

在自行監測中,「隨意取集樣本」須在測量物的濃度很可能是最高的那段時間內抽取。「綜合樣本」須包含在每日排放期間不同時候所抽取的樣本。

C5.3 For self-monitoring, all samples shall be analyzed in accordance with the most updated analytical methods used by the Government Chemist ^(Note d). 在自行監測中,所有樣本均須按照政府化驗師所採用的最新分析方法予以分析 ^(Witted)。

#### C6. Records and Reporting 紀錄及報告

C6.1 The Licensee shall keep the following records in the premises for inspection by duly authorized officer(s) of the Authority:

持牌人須在處所內保存下列紀錄,以備獲監督授權的人員隨時查閱:

- records of flow rate, nature and composition of the discharge; 排放流量率、性質及成份的紀錄;
- (ii) updated records of all monitoring information, including all laboratory analytical results relating to samples taken, all original chart recordings for continuous flow and pH monitoring; and 所有最新監測資料的紀錄,包括所有關於已取樣本的檢驗分析結果、所有連續性流量及酸鹼值監測 記錄圖表的正本;及
- (iii) records of all desludging and degreasing operation, and records of corresponding disposal operation.

所有清除污泥和清理隔油池廢物工序的紀錄,及其棄置工序的紀錄。

Copies of all such records shall be submitted to the Authority upon request. 在監督要求時,須向監督呈交所有該等紀錄的副本。

C6.2 The Licensee shall notify and explain to the Authority within 24 hours upon the occurrence of an accidental discharge or any emergency bypass or an overflow of untreated effluent or an operation upset which places the discharge in a temporary state of non-compliance with this licence. The Licensee shall within 7 days following the incident, submit to the Authority a detailed report in writing on the cause and duration of the non-compliance and steps taken or to be taken to reduce, eliminate, or prevent recurrence of such non-compliance. Reporting in accordance with this Condition does not relieve the Licensee of any obligations imposed by this licence.

倘若有未經處理的污水意外排放、緊急繞流或溢滿的事件或操作失靈,引至排放出現短暫不符合牌照規定 的情況,持牌人須在事發後24小時內立即知會監督並予以解釋。持牌人須在事故發生後7天內,以書面 報告,詳述事件的起因、違反牌照條件的時間及為減少、消除或防止類似事件再次發生所採取或將會採取 的措施,送交監督審閱。然而,按照本條件的規定提交報告並不表示持牌人可獲免除承擔本牌照內所載的 任何責任。

#### C7. Operation Manual 操作手冊

The Licensee shall prepare an operation manual which shall include, as a minimum, operating procedures, inspection programme and repair and maintenance programme for the wastewater treatment facilities. The operation manual shall be kept at the aforesaid wastewater treatment facilities and a copy of the manual shall be submitted to the Authority upon request.

持牌人須擬備廢水處理設施的操作手冊。手冊內容須最低限度包括操作程序、檢查、維修及保養工作計劃表。該 手冊須保存在上述廢水處理設施內。持牌人須在監督要求時,呈交手冊副本乙份。

#### C8. Notification of Change 更改通知

The Licensee shall notify the Authority in writing within 14 days of any changes or proposed changes in the processes of manufacture or the nature of the raw materials used or of any other circumstances which may alter the nature and composition of the discharge or may result in the permanent cessation of the discharge.

倘若持牌人更改或擬更改其生產程序、或所用原料的性質、或有其他足以改變其排放的性質及成份或可導致永久 性終止排放的事情,必須在14日內以書面通知監督。

**FPD156** 

	ies	附註
(a,	the no Cc 為的	or the purposes of determining compliance with the limits stated in Specific Condition B1, samples shall be taken by the duly thorized officer(s) of the Authority at the Sampling Point(s) or any other points from which the samples so taken are regarded by e Authority as being representative of the quality of the discharge. When any single sample analyzed for a determinand is proved t complying with corresponding limit set out in the table, the discharge is deemed to have failed to comply with Specific mezitive and the samples of the samples of the samples of the samples of the samples and the sample analyzed for a determinant is proved to analyzed for a determinant is proved to analyzed for a determinant is proved and the samples and the samples and the samples of the samples of the sample of the sampl
<i>(b)</i>		example of proper disposal method for sludge is sending dewatered sludge to landfill for disposal. 善棄置污泥方法中的一個例子是將脫水後的污泥運往堆填區棄置。
(c)	col Res	oper disposal of grease trap waste includes but is not limited to employing any reputable firm or collector who will use the right ipment and dispose of the collected grease trap waste at West Kowloon Transfer Station. The updated list of grease trap waste lectors who are using the disposal service at West Kowloon Transfer Station is maintained in the EPD website and Green staurant website.
		善的隔油池廢物棄置方法包括卻不限於聘用任何信譽良好的公司/收集商使用適當的設備在西九龍廢物轉運站棄置所 集的隔油池廢物。環保署網站及環保食肆網均載有目前使用西九龍廢物轉運站棄置隔油池廢物的收集商最新名單。
(d)	The by t	Licensee may make reference to Annex 1 of the <technical effluent="" memorandum="" on="" standards=""> for analytical methods used</technical>
		卑人可參照「流出物標準技術備忘錄」附件1有關政府化驗師所採用的分析方法。
(e)	The the 持牌	Licensee shall keep this licence in the premises and make it available at all times for inspection by duly authorized officer(s) of Authority. #人須在處所內保存此牌照,以備獲監督授權的人員隨時查閱。
(f)		The Licensee shall allow duly authorized officer(s) of the Authority to enter the premises for the purposes of inspection, sampling, records examination or any other duties authorized by Section 37 and Section 38 of the Ordinance. 持牌人須准許獲監督授權的人員進入處所內進行檢查、抽取樣本、審查紀錄或執行其他根據本條例第 37 及第 38 條
	(ii)	Where the premises has security measures in force which would require proper identification and clearance before entry, the Licensee shall make necessary arrangements such that upon presentation of evidence of identity and of authorization, duly authorized officer(s) will be permitted to enter, without delay, for the purposes of performing duties. 倘若由於處所的保安理由而需先行鑑定來人的身份,持牌人必須作出必要的安排,以便獲授權人員在出示身份證明及授權文件後,即可內進執行其職務而不致受延誤。
g)	(i)	For a licence granted under Section 15 of the Ordinance, the Licensee may, not less than 2 months before expiry of the licence, apply under Section 19 of the Ordinance for a new licence. The Authority may grant the licence or otherwise. 持有根據本條例第 15 條所批給牌照的人士,可於牌照屆滿前不少於 2 個月內,根據本條例第 19 條的規定,申請一面新牌照。監督可批給或拒絕批給牌照。
	(ii)	For a licence granted under Section 20 or 23A of the Ordinance, the Licensee may, not more than 4 months and not less than 2 months before expiry of the licence, apply under Section 23 or 23A respectively of the Ordinance for renewal of licence. The Authority may renew the licence or otherwise. 持有根據本條例第 20 條或第 23 A 條所批給牌照的人士,可於牌照屆滿前不多於 4 個月及不少於 2 個月內,根據本條例的第 23 或 23 A 條的規定,申請牌照續期。監督可將牌照續期或拒絕將牌照續期。
2)	cance 根據	r Section 24 of the Ordinance, the Authority may by notice in writing, impose new or amended terms and conditions on this ce or cancel this licence. Under Section 25, 26 and 27 of the Ordinance, a Licensee whose licence has been so varied or entitled to compensation. 本條例第 24 條的規定,監督可以書面通知,向本牌照施加新訂或經修訂的條款及條件,或取消本牌照。根據本條例 、26 及 27 條的規定,被更改或取消牌照的持牌人可能會獲得補償。
1	Under	Section 28 of the Ordinance, the Licensee may apply to the Authority for a variation of this licence.
	Under Ordina	Section 49 of the Ordinance, this licence shall not be construed as a dispensation from the requirements of any other ince except where that other Ordinance so provides.

Appendix C

Water Sample Laboratory Report

# ALS Technichem (HK) Pty Ltd

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



		CERTIFIC	CATE OF ANALYSIS		
lient	: OSCAR BIOENERGY JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 3
Contact		Contact	: Richard Fung	Work Order	: HK1844110
ddress	: FLAT/RM 702, 7/F, LEE GARDEN TWO, 28 YUN PING ROAD, CAUSEWAY BAY, HONG KONG	Address	<ul> <li>11/F., Chung Shun Knitting</li> <li>Centre, 1 - 3 Wing Yip Street,</li> <li>Kwai Chung, N.T., Hong Kong</li> </ul>		
-mail	: leah.pak@oscarbioenergy.hk	E-mail	: richard.fung@alsglobal.com		
lephone	:	Telephone	: +852 2610 1044		
csimile	:	Facsimile	: +852 2610 2021		
oject	: ORGANIC RESOURCES RECOVERY CENTRE (PHASE 1	)		Date Samples Received	: 13-Aug-2018
der number	:	Quote number	: HKE/1413a/2017	Issue Date	: 17-Aug-2018
O-C number	:			No. of samples received	: 1
te	:			No. of samples analysed	:1

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Technichem (HK) Pty Ltd Partof the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



### **General Comments**

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 13-Aug-2018 to 15-Aug-2018. Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

#### Specific Comments for Work Order: HK1844110

Sample(s) were received in ambient condition. Water sample(s) analysed and reported on as received basis. Calibration range of pH value is 4.0 - 10.0. Results exceeding this range is for reference only. pH value is reported as at 25°C.



#### Analytical Results

Sub-Matrix: WATER Client sample ID			P1-Nullah*	 	 	
Client sampling date / time			13-Aug-2018	 	 	
Compound	CAS Number	LOR	Unit	HK1844110-001	 	 
EA/ED: Physical and Aggregate Properties						
EA002: pH Value		0.1	pH Unit	7.5	 	 

# ALS Technichem (HK) Pty Ltd

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



		CERTIFIC	CATE OF ANALYSIS		
Client	: OSCAR BIOENERGY JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 3
Contact		Contact	: Richard Fung	Work Order	: HK1844116
Address	: FLAT/RM 702, 7/F, LEE GARDEN TWO, 28 YUN PING ROAD, CAUSEWAY BAY, HONG KONG	Address	<ul> <li>11/F., Chung Shun Knitting</li> <li>Centre, 1 - 3 Wing Yip Street,</li> <li>Kwai Chung, N.T., Hong Kong</li> </ul>		
-mail	: leah.pak@oscarbioenergy.hk	E-mail	: richard.fung@alsglobal.com		
elephone	:	Telephone	: +852 2610 1044		
acsimile	:	Facsimile	: +852 2610 2021		
roject	: ORGANIC RESOURCES RECOVERY CENTRE (PHASE 1	)		Date Samples Received	: 13-Aug-2018
rder number	:	Quote number	: HKE/1413a/2017	Issue Date	: 17-Aug-2018
-O-C number	:			No. of samples received	: 1
ite	:			No. of samples analysed	: 1

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Technichem (HK) Pty Ltd Partof the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



### **General Comments**

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 13-Aug-2018 to 15-Aug-2018. Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

#### Specific Comments for Work Order: HK1844116

Sample(s) were received in ambient condition.

Water sample(s) analysed and reported on as received basis.



### Analytical Results

Sub-Matrix: WATER Client sample ID			P1-Nullah*	 	 	
Client sampling date / time			13-Aug-2018	 	 	
Compound	CAS Number	LOR	Unit	HK1844116-001	 	 
EA/ED: Physical and Aggregate Properties						
EA025: Suspended Solids (SS)		2	mg/L	5	 	 

# ALS Technichem (HK) Pty Ltd

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



		CERTIFIC	CATE OF ANALYSIS		
Client	: OSCAR BIOENERGY JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 3
Contact		Contact	: Richard Fung	Work Order	: HK1844122
Address	: FLAT/RM 702, 7/F, LEE GARDEN TWO, 28 YUN PING ROAD, CAUSEWAY BAY, HONG KONG	Address	<ul> <li>11/F., Chung Shun Knitting</li> <li>Centre, 1 - 3 Wing Yip Street,</li> <li>Kwai Chung, N.T., Hong Kong</li> </ul>		
E-mail	: leah.pak@oscarbioenergy.hk	E-mail	: richard.fung@alsglobal.com		
elephone	:	Telephone	: +852 2610 1044		
acsimile	:	Facsimile	: +852 2610 2021		
Project	: ORGANIC RESOURCES RECOVERY CENTRE (PHASE	)		Date Samples Received	: 13-Aug-2018
order number	:	Quote number	: HKE/1413a/2017	Issue Date	: 17-Aug-2018
C-O-C number	:			No. of samples received	: 1
Site	:			No. of samples analysed	: 1

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics

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#### Specific Comments for Work Order: HK1844122

Sample(s) were received in ambient condition.

Water sample(s) analysed and reported on as received basis.



### Analytical Results

Sub-Matrix: WATER Client sample ID			P1-Nullah*	 	 	
Client sampling date / time				13-Aug-2018	 	 
Compound	CAS Number	LOR	Unit	HK1844122-001	 	 
EP: Aggregate Organics						
EP026C: Chemical Oxygen Demand		5	mg/L	24	 	 

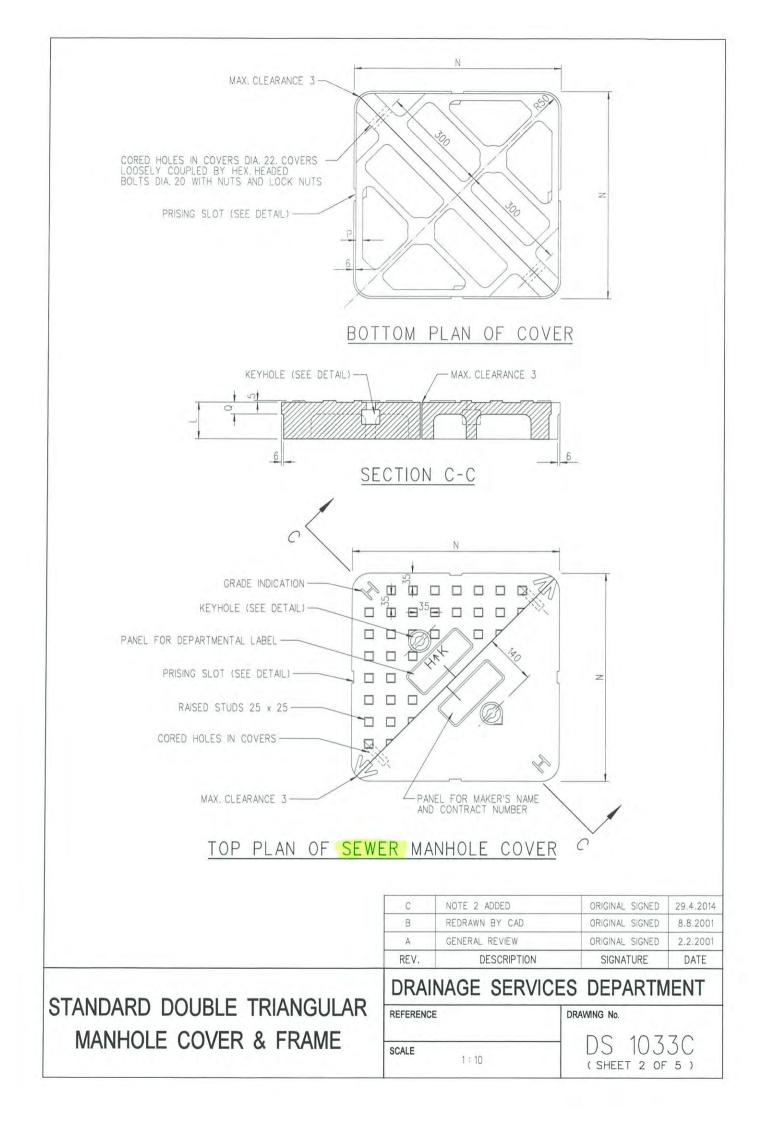
Appendix D

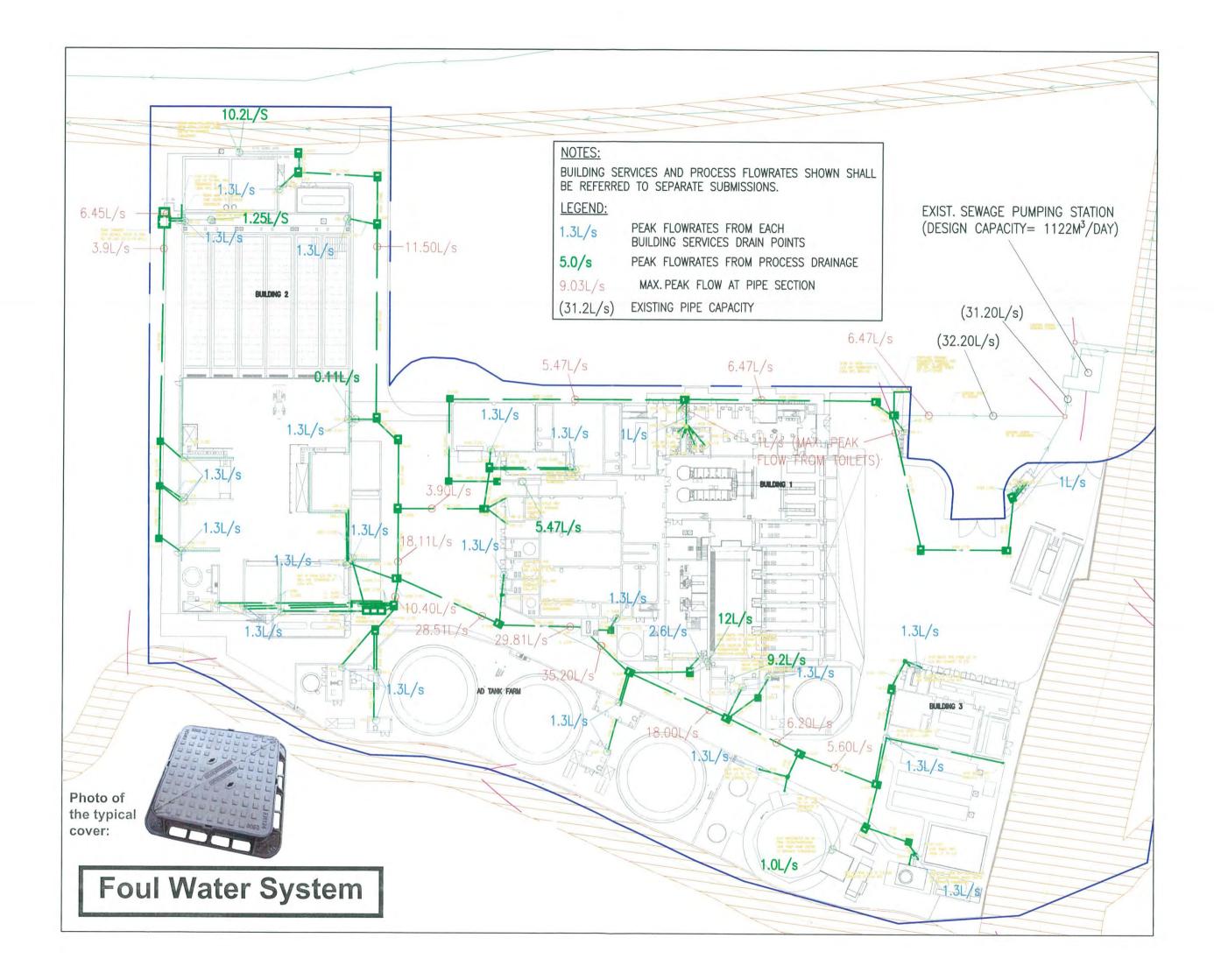
Training Record

	SUEZ QATAL		Contract No EP/SP/6 Organic Waste Treat	ment Facilities Phase 1	
Fraining Se 音訓課程:		Environmental Tool &	ox Training	Introductory of to avoid	ORRCI Drahage System accident discharage.
Date: 日期:	3018	Time: 時間:	10:30am~11:00	am	
Training T	utor 培訓導師: Lonner.	-			
Signatureð	<b>安</b> 名:	Indu			
No. 编號	Name of Trainee 姓名	Position / Trade 職位 / 行業	Co. 公司	Green Card No. 平安咭號碼	Signature 簽署
1	Laumer Lee	SPE	OSLAR		Inda
2	they Ng	SPE	OSCAR		00
3	Edwonler	PĒ	OSCAR	and an extension of the statement of the st	X.
4	Edmond Wong	PE	OSCAR		hun
5	BillyTong	GT	OSCAR .		Billing
6	Frankie Way	67	OSCAR		Tept
7	Jeren Zon	67	oscAn		Zen_
8	Crear Ching	PE	CKLAR.		Cn.
9	Resur	E	OSOR		Rey
10	ALEX WONG	EM	OSCAP		Ab
11	Joe Lann	73	Oscorr		Jue.
12					
13					
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15					

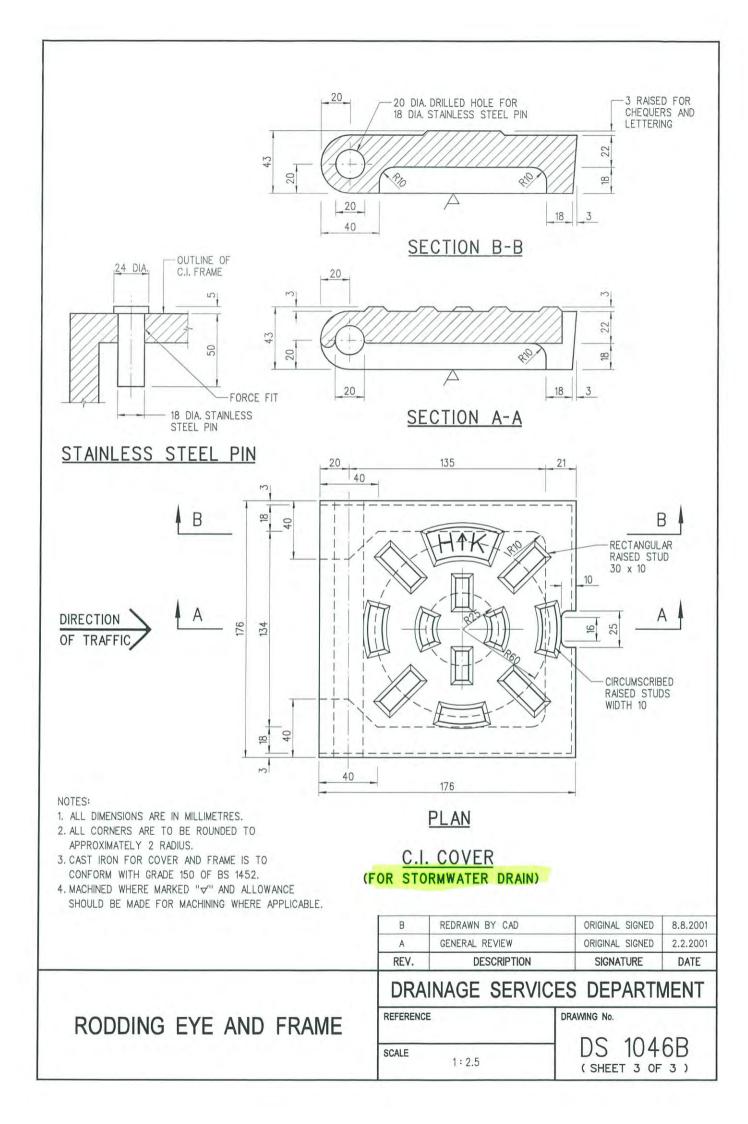
	(M) 9				Contract No EP/SP/61/10 Organic Waste Treatment Facilities Phase 1					
	Training Se 培訓課程:	ssion :	Environmental Toolbox	talk 環保工具箱	培訓	Introductory of C to avoid acc	PRCI Drainage System ident discharge			
	Date: 日期:	8-2018	Time: 時間:	10:30am~11						
	Training Tu	utor 培訓導師:	K.H Tang( E.O.)	· ·						
	Signature	摇:	A							
	No. 編號	Name of Traince 姓名	Position / Trade 職位 / 行業	Co. 公司		Green Card No. 平安咭號碼	·····································			
	1	Agnes Yu Ricky Lai	Design Engineer				He.			
	2	Ricky Lai	Sub - Agent				He. Fari			
	3	Jonathan La	Sr De sign Fing	hear			AK			
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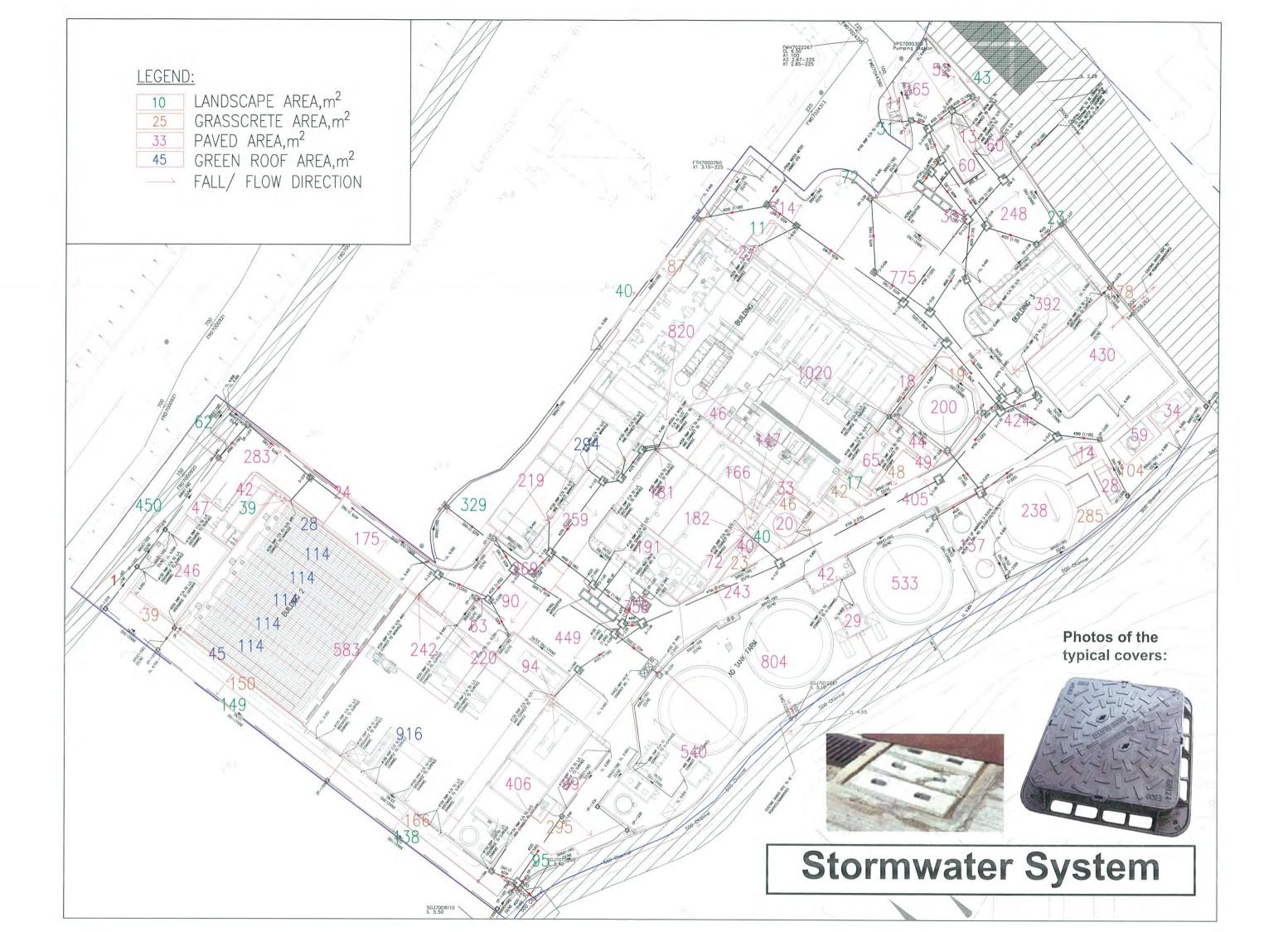












Appendix E

Photo Record

Appendix E

Photo Record

