QUARTERLY EM&A REPORT

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10
Organic Resources Recovery
Centre (Phase 1):
Fourteenth Quarterly EM&A
Summary Report

1 September 2018 - 30 November 2018

Environmental Resources Management

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Organic Resources Recovery Centre, Phase I

14th Quarterly EM&A Summary Report (1 September 2018 – 30 November 2018)

(February 2019)

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1 September 2018 – 30 November 2018 Reference 0279222

For and on behalf of ERM-Hong Kong, Limited
Approved by: Frank Wan
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Date: 17 January 2019

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EXECUTIVE SUMMARY

The construction works of *No. EP/SP/61/10 Organic Resources Recovery Centre (Phase I) (the Project)* commenced on 21 May 2015. This is the fourteenth quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 1 September 2018 to 30 November 2018 in accordance with the EM&A Manual.

Environmental Monitoring and Audit Progress

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

• Joint Environmental Site Inspection

14 times

• Landscape & Visual Monitoring

6 times

Odour

Odour patrol were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) during reporting period. No Level 2 Odour Intensity was recorded during odour patrols.

Air samples were also collected from the outlet of the CAPC unit by an independent laboratory (ALS) for olfactometry analysis at the laboratory on 31 August 2018, 5, 12, 19 and 26 October 2018 and 1, 5 and 23 November 2018. The odour level of the samples collected on 31 August 2018, 5, 12, 19 and 26 October 2018 and 1 and 5 November 2018 have exceeded the odour limit stated in Table 2.2 of the EM&A Manual. An investigation of the cause of the exceedance has been carried out. The investigation reports was shown in *Annex I*.

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).

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

Six exceedances related to odour was recorded during the reporting period.

No non-complacence event was recorded during the reporting period.

One environmental complaint related to odour and no summon/prosecution was received in this reporting period.

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 fourteenth quarterly EM&A summary report, which summarizes the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 September 2018 to 30 November 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 background and scope of the Project, site description, project organization, construction programme, the construction works undertaken and the status of Environmental Permits (EP)/licences over the construction phase of the Project.

Section 3: Environmental Monitoring Requirements

It summarises the environmental monitoring including monitoring parameters, monitoring programmes, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the approved EIA report, EP and relevant environmental requirements stated in the Contract Specification.

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, and environmental complaints and environmental summons received within the reporting period.

Section 8: Conclusions

PROJECT INFORMATION

2.1 BACKGROUND

2

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 (Contract No. EP/SP/61/10 Organic Resources Recovery Centre Organic Resources Recovery Centre (Phase I)) 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 December 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 upgrading works is illustrated in *Annex A*.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in the reporting period is shown *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 2.1 Summary of Construction Activities Undertaken in the Reporting Period

Construction Activities Undertaken

- Building 1 ABWF/finishing works and BS installation;
- Building 2 & 3 ABWF/finishing works 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 60-120d 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 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licenses/	Reference	Validity Period	Remarks
Notification		·	
Environmental Permit	FEP- 01/395/2010/C	Throughout the Contract	Permit granted on 21 December 2015
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation	Ref No. 386715	Throughout the Contract	-
Effluent Discharge License	WT00024352- 2016	21 May 2015 - 31 May 2020	Approved on 3 June 2016 2015
Construction Noise Permit - P1&P2	GW-RW0637-17 (Superseded CNP GW- RW0351-17)	21 January 2018– 20 July 2018	Approved on 14 December 2017
Construction Noise Permit - P1&P2	GW-RW0229-18 (Superseded CNP GW- RW0637-17)	21 July 2018 - 20 January 2019	Approved on 19 June 2018
Construction Noise Permit – P3	GW-RW0184-18 (Superseded CNP GW- RW0565-17)	1 June 2018 – 30 November 2018	Approved on 17 May 2018
Construction Noise Permit – P5 (Slope)	GW-RW0107-18	30 March 2018 – 29 September 2018	Approved on 20 March 2018
Construction Noise Permit - P5 (Slope)	GW-RW0347-18 (Superseded the GW-RW0107- 18)	30 September 2018 – 29 March 2019	Approved on 15 August 2018
Chemical Waste Producer Registration	WPN 5213-961- O2231-01	Throughout the Contract	Approved on 29 April 2015
Waste Disposal Billing Account	Account number: 702310	Throughout the Contract	-

3 ENVIRONMENTAL MONITORING REQUIREMENT, ENVIRONMENTAL MITIGATION MEASURES

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.

During August 2018, air samples were 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. According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour level is more than 220 OU/Nm3. During this reporting period, the odour level of the odour samples collected from the CAPC unit have exceeded the odour limits stated in Table 2.2 of the EM&A Manual. The monitoring results are shown in *Annex H*.

Investigation of the exceedances has been conducted. The investigation report is shown in *Annex I*.

During September 2018, odour patrol were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 3, 5, 7, 10, 12, 14, 17, 19, 21, 24, 26 and 28 September 2018. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrol on 10 and 28 September 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*.

No air samples was collected from the outlet of the CAPC unit for measurement of the Odour Intensity in September 2018.

During October 2018, Odour patrol were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 2, 3, 5, 8, 10, 12, 15, 18, 19, 22, 24, 26, 29 and 31 October 2018. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrol on 26 October 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 5, 12, 19 and 26 October 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. According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour level is more than 220 OU/Nm³. On 5, 12, 19 and 26 October 2018, the odour level of the odour samples collected from the CAPC unit have exceeded the odour limits stated in Table 2.2 of the EM&A Manual. The monitoring results are shown in *Annex H*.

Investigation of the exceedances has been conducted. The investigation report is shown in *Annex I*.

During November 2018, odour patrols were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30 November 2018. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrols on 30 November 2018. According to the EM&A Manual and EP requirements, 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 1, 5 and 23 November 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. According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour level is more than 220 OU/Nm³. On 1 and 5 November 2018, the odour level of the odour samples collected from the CAPC unit have exceeded the odour limits stated in Table 2.2 of the EM&A Manual. No exceedance for the samples collected on 23 November 2018. The laboratory results are shown in *Annex H*.

Investigation of the exceedances has been conducted. The investigation report is shown in *Annex I*.

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.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

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 in *Table 5.1*.

Table 5.1 Quantities of Waste Generated from the Project

Month/Year	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
September 2018	765.7 tonnes	15,100 .00 kg	41.82 tonnes	0.00 L
October 2018	0.00 tonnes	2,330.00 kg	109.49 tonnes	0.00 L
November 2018	77.71 tonnes	0.00 kg	30.18 tonnes	0.00 L

Notes:

- (a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 843.41 tonnes of inert C&D material were generated from the Project, of which 325.00 tonnes were reused in this Contract and the remaining 518.41 tonnes were disposed as public fill to Fill Banks 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) 10,600.00 kg of metals, 6,830.00 kg of papers/ cardboard packing and 0.00 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

Thirteen site inspections were conducted during the reporting period. There was no non-compliance recorded during the site inspections. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent weekly site inspections conducted in the reporting period.

September 2018

Joint site inspections were conducted by the representatives of the Contractor, ER, IC and ET on 3, 11, 19 and 26 September 2018. The IEC was also present at the joint inspection on 19 September 2018.

October 2018

Joint site inspections were conducted by the representatives of the Contractor, ER, IC and ET on 2, 10, 19, 23 and 30 October 2018. The IEC was also present at the joint inspection on 10 October 2018.

November 2018

Joint site inspections were conducted by the representatives of the Contractor, ER, IC and ET on 3, 7, 15, 20 and 28 November 2018. The IEC was also present at the joint inspection on 28 November 2018.

6.2 LANDSCAPE AND VISUAL AUDIT

Six landscape and visual monitoring site inspections were conducted during the reporting period. Follow-up actions needed to be implemented were recommended to the Contractor and the status of the follow-up actions was reviewed during the subsequent weekly site inspections. It was confirmed that most of the necessary landscape and visual mitigation measures as summarised in *Annex E* were implemented by the Contractor.

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. The onsite inspection of the landscape and visual mitigation measures has commenced since June 2015 during weekly site inspections.

September 2018

Bi-weekly site inspections were conducted on 3 and 17 September 2018.

October 2018

Bi-weekly site inspections were conducted on on 8 and 22 October 2018.

November 2018

Bi-weekly site inspections were conducted on 5 and 19 November 2018.

Key landscape and visual mitigation measures implemented in the reporting period included:

- Provide insect prevention measures to the exposed root of retained tree to prevent potential damage due to the exposure.
- Provide the non-moisture holding material around the trees to prevent potential damage.
- Avoid placing machine near the tree protection zone.

6.3 EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING

The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimizing environmental impacts.

The EM&A for the Project was conducted as scheduled during the reporting period. No non-compliance events were observed during site inspections and no exceedances were recorded during this reporting period. The EM&A programme is considered effective.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was received during the reporting period.

7.2 SUMMARY OF ENVIRONMENTAL COMPLAINT

One odour complaint was received during the reporting period. During the odour patrol conducted by the ER and OSCAR at about 15:00 hrs on 7 September 2018 (Friday), the patrol team received a verbal compliant from a police officer (Mr Cho who works at the Hong Kong Police Siu Ho Wan Vehicle Examination Centre and Weigh Station next to ORRC1) regarding the odour nuisance, flies and mosquitos at the compound. The investigation report is presented in *Annex J*. The complaint was also registered in the cumulative environmental complaint log (see *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 CONCLUSIONS

This EM&A Report presents the EM&A works undertaken during the reporting period from 1 September 2018 to 30 November 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 on 31 August 2018, 5, 12, 19 and 26 October 2018 and 1, 5 and 23 November 2018. The result are shown in *Annex H*. The odour level of the samples collected on 31 August 2018, 5, 12, 19 and 26 October 2018 and 1 and 5 November 2018 have exceeded the odour limit. An investigation of the cause of the exceedance has been carried out. The investigation report was shown in *Annex I*.

Bi-weekly landscape and visual monitoring was conducted in this quarterly period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor. Follow-up actions would be implemented by the Contractor to improve protection measures on the retained or to-be transplanted trees.

No non-compliance event was recorded during the reporting period.

One complaint related to odour and no summons/prosecution was received during the reporting period. The investigation of the complaint has been carried out. The investigation report was shown in *Annex J*.

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

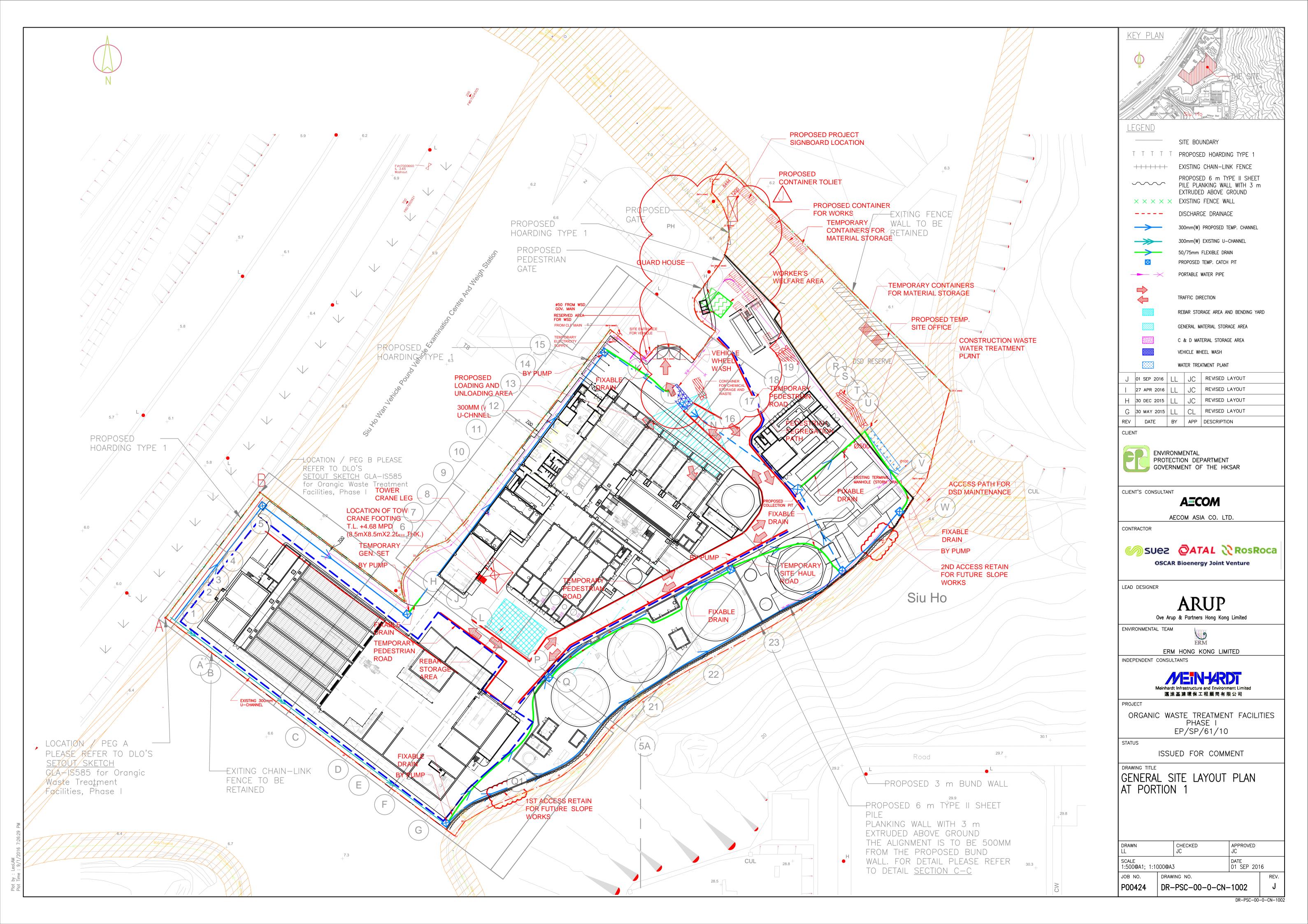
Annex A

Project Layout



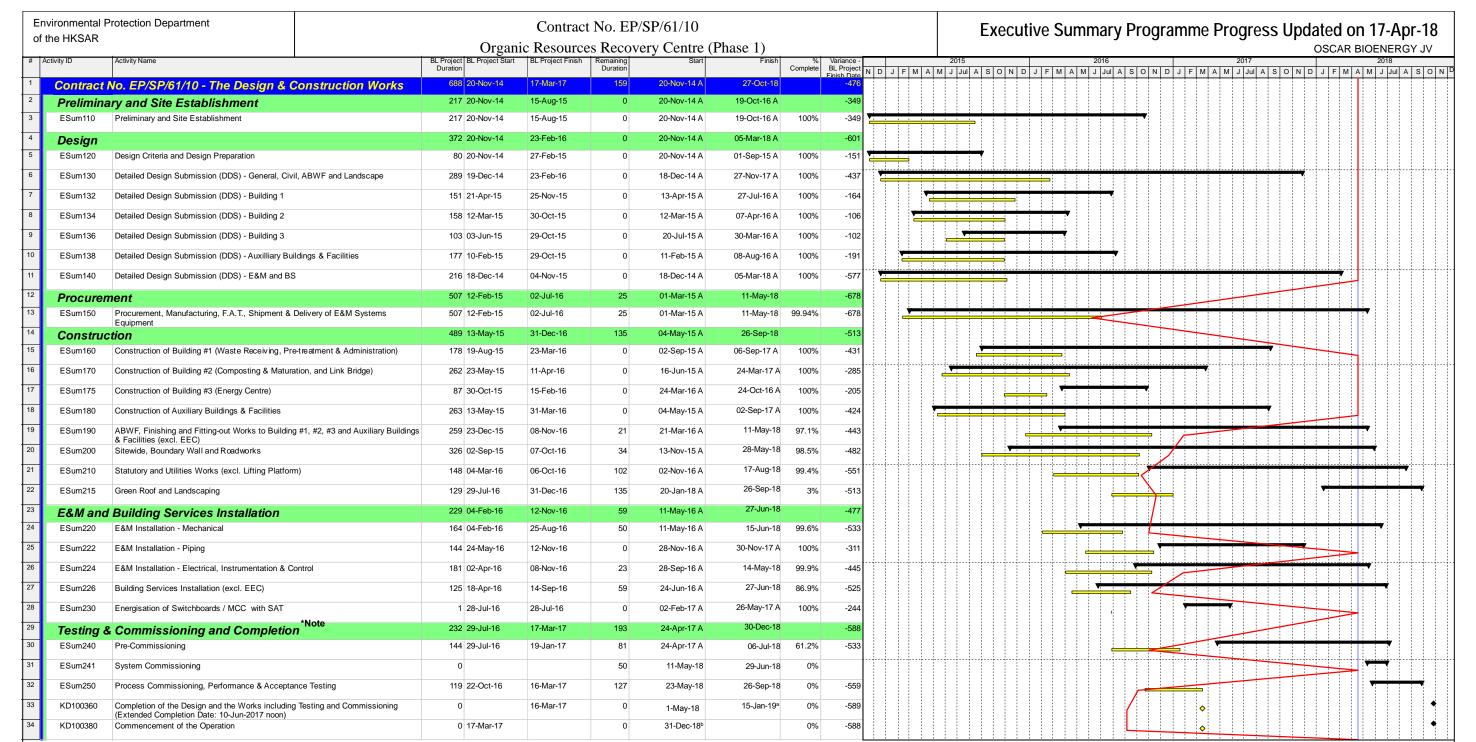
Annex B

Works Location



Annex C

Construction Programme of the Project



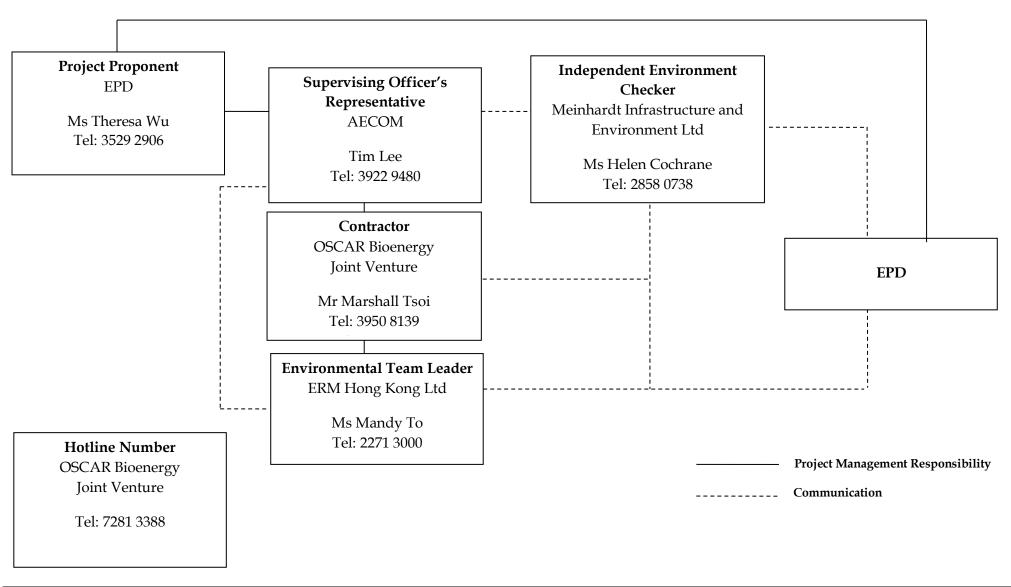
a: The completion of T&C has been postponed to mid-Janaury 2019 tentatively.

b: OSCAR is preparing the commencement of the Operation which will be confirmed by the client during January 2019 tentatively.

Annex D

Project Organization Chart with Contact Details

Project Organization During Construction Phase (with contact details)



Annex E

Implementation Schedule of Mitigation Measures

Annex E Summary of Mitigation Measures Implementation Schedule

EIA Ref.	EM&A	Environmental Protection Measures	Location/ Timing	Status
	Log Ref.			
υ.		al Mitigation Measures in the EIA and EM&A Manual		
	ir Quality	-		
3.73	2.5	Air Pollution Control (Construction Dust) Regulation & Good Site Practices	Construction Site / During	$\sqrt{}$
		• Use of regular watering, with complete coverage, to reduce dust emissions from exposed site	Construction Period	
		surfaces and unpaved roads, particularly during dry weather.		
		• 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.		
		1		

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
3.78	2.7 & 2.13 - 2.19	 Commissioning tests shall be conducted to confirm the centralized air pollution control unit, the cogen units, the standby flaring unit and ASP against the design emission levels as stated in Tables 2.2 - 2.5. Odour monitoring shall be conducted at the stack exhaust of the centralized air pollution control unit weekly in the first month of the commissioning stage. 	Construction Site / Testing and Commissioning Period	√ ·
3.78	2.7-2.12	Air Pollution Control and Stack Monitoring • Stack monitoring shall be installed for the centralized air pollution control unit, cogen units and ASP of OWTF to ensure that the air emissions from OWTF would meet the design emission limits as well as EPD criteria.	Construction Site / Testing and Commissioning Period	٧
3.78	2.20- 2.28	Odour Patrol at site boundary of OWTF	Construction Site / Testing and Commissioning Period	√ ·
В. Н	lazard to Life			
4.102	3.3	 Construction Phase 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. 	Construction Site / During Construction Period	

tus	Location/ Timing	Environmental Protection Measures		EIA Ref.
	I		Log F	
		• 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 personnel are		
		familiar with the emergency procedures. Upon completion of the drills, a review on every step		
		taken 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.		
		<u>. I</u>	C. Water Qu	С.
	Construction Site / During	Construction site run-off and general construction activities:		5.44
	Construction Period	The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage		
		should be adopted where applicable.		
	Construction Site / During	Excavation of Soil Materials	.45 4.5	5.45
	Construction Period	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 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.		
	Construction Site / During	Accidental spillage of chemicals:	.46 4.5	5.46
	Construction Period	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	Maintenance of vehicles and equipments involving activities with potential for leakage and	47 4.5	5.47
	 	these discharges.		
	Construction Site / During	Oils and fuels should only be used and stored in designated areas which have pollution	.48 4.5	5.48
	Construction Period			-
		· ·		
		· · · · · · · · · · · · · · · · · · ·		
	Construction Site / During Construction Period Construction Site / During Construction Period	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. 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.		5.47

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
	Lug Kei.			
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	4.5	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	<>
5.51	4.5	Sewage Effluent 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.	Work site/During the construction period	√ ·
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	V
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.	Work Site / During Construction Period	N/A

EIA Ref.	EM&A	Environmental Protection Measures	Location/ Timing	Status
	Log Ref.	Townson we store as of materials (or a squirment filling materials show in land to 1) and	<u> </u>	
		• 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.		
		Supervisory staff should be assigned to station		
D. V	 Vaste Managem	dent		
6.41	5.4	Good Site Practices	Work Site / During	<>
		Recommendations for good site practices during the construction phase would include:	Construction Period	
		Obtain relevant waste disposal permits from appropriate authorities, in accordance with the		
		Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous		
		Provisions) 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 transportation		
		of waste by either covering trucks or by transporting wastes in enclosed containers;		
		Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil		
		interceptors;		
		Separate chemical wastes for special handling and disposed of to licensed facility for		
		treatment; and		
		Employ licensed waste collector to collect waste.		
		W (D I C) W	Work Site/During Design &	
6.42	5.5	VVaste Reduction Measures		
6.42	5.5	Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the		V
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:	Construction Period	V

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		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.		
6.44	5.7	Excavated and C&D Materials In order to minimise the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below: • A WMP, which becomes part of the Environmental Management Plan (EMP), should be 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).	Work Site/During Design & Construction Period	
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	√
6.47	5.10	<u>Chemical Waste</u>	Work Site / During	√

EIA Ref.	EM&A	Environmental Protection Measures	Location/ Timing	Status
	Log Ref.			
		Should chemical wastes be produced at the construction site, the Contractor would be required	Construction Period	
		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.		
6.48	5.11	General Refuse	Work Site / During	<>
		General refuse should be stored in enclosed bins or compaction units separated from C&D	Construction Period	
		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.		
E. L	andscape and	l d Visual		
7.99 & Table 7.7	Table 6.1	<u>Construction Phase</u>	Work Site / During	$\sqrt{}$
		Topsoil, where identified, should be stripped and stored for re-use in the construction of the	Construction Period	
		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		
	loise			
8.25	7.3	Good Site Practice:	Work site/During Design &	V
		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

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

	Actual Quantities of Inert C&D Materials Generated				Actual Quantities of Non-inert C&D Materials (Construction 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

	Actual Quantities of Inert C&D Materials Generated				Actual Quantities of Non-inert C&D Materials (Construction 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	225.00	0.00	0.00	303.56	13620.00	33400.00	26760.00	0.00	44.50
September 2018	765.70	325.00	0.00	0.00	440.70	10600.00	4500.00	0.00	0.00	41.82
October 2018	0.00	0.00	0.00	0.00	0.00	0.00	2330.00	0.00	0.00	109.49
November 2018	77.71 (Note 4)	0.00	0.00	0.00	77.71	0.00	0.00	0.00	0.00	30.18

Total	64210.44	8222.28	0	0	55988.16	605001	418801.3	110360	4815	2643.87

Notes:

- Metal and paper/cardboard packaging were collected by recycler for recycling. Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling. (2)
- General refuse was disposed of at NENT by subcontractors.
- (4) In total, 77.71 tonnes of inert C&D material were disposed as public fill to Fill Bank at Tuen Mun Area 38 and TKO137 in reporting period.

Annex G

Environmental Complaint, Environmental Summons and Persecution Log

Annex G Cumulative Complaint and Summons/Prosecutions 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

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
September 2018	1	0
October 2018	0	0
November 2018	0	0
Overall Total	1	0

Annex H

Odour Monitoring Result

Annex H1

Odour Patrol Result



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	3 /9 / 2018
Start & End Time (24hr)	From 14=05 To 16230
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Qoudy / Windy / Humid / Foggy /
Temperature (C)	29.9°C
Relative Humidity (%)	82
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(1)/2/3/4/5/6/7/8
Characteristic of Odour	V
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	Hot Plastic
Possible Source of Odour	PSV of Riogas 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	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(D/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	V-2
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	V
Possible Source of Odour)
Follow-up Actions Romanke	
Centifuge lower comes out some	digostate smell.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Danles Cha	Votrick 4m		Sorah Ho
Signature		P	NA	Sarah
Date	3/8/2018	3/8/18.		3/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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SUCZ OATAL ROSROCA

OSCAR Bioenergy Joint Venture

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	3 / 9 / 2018
Start & End Time (24hr)	From 14:05 To 14:30
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Hymid / Ferry / T&C Period Patrol
Temperature (C)	Sunny / Cloudy / Windy / Humid / Foggy /
Relative Humidity (%)	29.9°C
Monitoring Point	1/2/2/4/5/6/6
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	(0 / 1 / 2 / 3 / 4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/6/5/6
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/11/2/
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/4/
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	11/2/2/1/2/
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	9/1/2/3/4
Possible Source of Odour	
Monitoring Point	11010111
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0 / 1 / 2 / 3 / 4
Possible Source of Odour	
Follow-up Actions Romanke	
Tomarke	

N	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name Signature	partel Chon	Patrick In		Sarah Ho
Date	3/8/2018	3/9/12	NA	Sarah

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	5/9/2018
Start & End Time (24hr)	
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	(Sunny) Cloudy / Windy / Humid / Foggy /
Temperature (C)	2) I
Relative Humidity (%)	32.1
Monitoring Point	10/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	9/1/2/3/4
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	Hot Phatic
Possible Source of Odour	
Monitoring Point	1/2/3/14/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	- 16 91·
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 /(1) / 2 / 3 / 4
Characteristic of Odour	Dayota Nactot Cull / 21
Possible Source of Odour	Devoter Digestate Small intermittend Contry the Bld 2
Monitoring Point	1 / 2 / 3 / 4 / 3 / 6 / 7 / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Deuriter Digestate Smell
Possible Source of Odour	Centiful Bid 2
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	9/1/2/3/4
Possible Source of Odour	
Follow-up Actions Romanke	,
Centerfage lower comes and some	digestate small

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	
Name	TONA LAM	Possice Mm		Grain Lee
Signature	PIA			/ -
	tind	#	NA	Gam
Date	5/9/2018	5/01/12		7/9/2016
		9/1/10		01112010

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	5/9/2018
Start & End Time (24hr)	
Type of Patrol	From 1430 To 74227 Weekly/Monthly/Ac hoc/Follow up/T&C Period Patrol
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/
Temperature (℃)	\$2.
Relative Humidity (%)	74
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	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	9,2,2,3,4
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	01111111
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	011121311
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	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
Characteristic of Odour	/
Possible Source of Odour	
Follow-up Actions Romanke	

	EPD	Employer	Independent	OSCAR
> T	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Patrickym		Favin 100
Signature	Fas		NA	Lain
Date	5/9/2018	5/9/18		5/9/18

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	7-19/2018
Start & End Time (24hr)	From 15:05 To 15:30
Type of Patrol	Weekly / Monthly / Ac hoe / Follow up / T&C Period Patrol
Weather Condition	Sunny (Cloudy) Windy / Humid / Foggy /
Temperature (C)	2700
Relative Humidity (%)	(1)/2/3/4/5/6/7/8 (0)/1/2/3/4
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	International List Mache Small
Possible Source of Odour	PRV of River Holder
Monitoring Point	International - Hot Placks Sinel PRV ext Riogne Holder - 1/2/3/14/5/6/7/8
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	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	1/2/3/4/5/6/7/8 0/1/2/3/4 Interistend smell of digestate.
Characteristic of Odour	Interiored small of observations
Possible Source of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 - 0 / 1 / 2 / 3 / 4
Monitoring Point	1/2/3/4/5/60/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romanke	
Louver hear contrigu Bld 2,	digestate smell.

	EPD Representative	Employer Representative /	Independent	OSCAR
Name	FIONA IAM	Refresentative	Odour Patrol Team	- OV
Signature	Fars	R	NA	large CHAN
Date	7/9/2018	7/2/10		7/9/2018

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	7 19 12018
Start & End Time (24hr)	
Type of Patrol	From To / S 3 () Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/
Temperature (C)	
Relative Humidity (%)	53°C
Monitoring Point	1/2/3/4/5/6(7)8
Intensity of Odour	1/2/3/4/5/6(7)8
Characteristic of Odour	0/(1)/2/3/4
Possible Source of Odour	Intermited minor smell assow
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	1/2/2/4/5/6/5/-
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0 / 1 / 2 / 3 / 4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/6/5
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/6/5/
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/5/5
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0 / 1 / 2 / 3 / 4
Possible Source of Odour	
Follow-up Actions Komarke	V
1 Setvicit !	

Name	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Signature	FIONA LAM	Harrie In	N/A	Gience CHAM
Date	719/2018	7/4/18	, 4//(79/2018

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	10/9/2018
Start & End Time (24hr)	From 16:15 To 16:36
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	28.7
Relative Humidity (%)	77.9
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Grassy
Possible Source of Odour	Grass & Tree
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 P = 0
Characteristic of Odour	
Possible Source of Odour	P2 = 1 (Trassy Grass & Tra
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Concrete & refuse
Possible Source of Odour	Waste container, construction waste
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Musty of construction material
Possible Source of Odour	Construction material
Monitoring Point	Construction material 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	
Refer to the attachment for	the monitoring point.

	EPD	Employer	Independent	OSCAR	
	Representative	Representative,	Odour Patrol Team	Bioenergy JV	
Name	Den'el Choi	Potrick UM	Pan Tuen / Allen Pos	- Sarah Ho	
Signature	2.3	P	Rom Hy For	Sarah	
Date	10/9/2018	10/9/18	10/9/2018	10/9/2018	

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Prepared By: Terence CHAN

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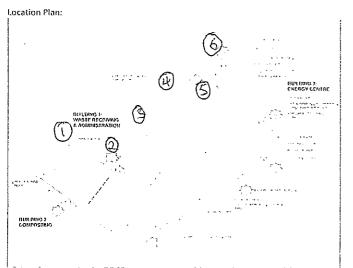
Odour Patrol Survey

(ALS)
Date: 10-9-18

Weather: Sunny / Fine / Cloudy / Rainy

ALS Work Order:

-		T		r	·						
No.	Location ID	Time	Temp ('C)	RH (%)	Wind Speed (m/s)	Wind Direction	Odour Intensity	Odour Characteristics	Potential Odour Source	Duration	Direction from the Odour Source
-		,33,25	1771	FC* 1	11.1	N	10. 1 2 2 3 k	sewaje vetten ega smell stesaved vererables, annnomest stisshovgeables dom vintespeto n shars, punaent fish urutatora vint vinesav	्रेड्डिस्साला स्टब्स् इन्स्राचन जीवसमार्थाः इन्स्राट्सी अस्तितः	Antyraessy - gastson	thomasil moval thomas
1		16:15	28.7	77.4	0.8	309	P1: 0 (1)/ 2 / 3 / 4 P2: 0 / (1)/ 2 / 3 / 4	Carasan	Grass & tree	intermittent/ Continuous	Downwind / Upwind / Sidewind
2	4	16:19	29,2	77.4	0.9	324	P1(0)/1/2/3/4 P2;(9/1/2/3/4			Intermittent / Continuous	Downwind / Upwind / Sidewind
3		1-:22	289	77.4	o'	M	P1 (0/1/2/3/4 P2: 0/(1/2/3/4	Gracky	xy 8 , 11/10		Downwind / Upwind / Sidewind
4		16.25	28.9	75.4	1.1	253	P1: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4	concrede & refuse	Waste Ocontain	Intermittent / Continuous	Downwird / Upwind / Sidewind
5		13130	28.9	81.6	0	NA	P1: 0 (1)/2/3/4 P2: 0 (1)/2/3/4	Muchy of Conduction	Malerial	Intermitten / Continuous	Downwind / Upwind / Sidewind
6		16:36	29,1	76.8	0	M	P1 ① /1/2/3/4 P2 / 0 / 1/2/3/4	0		Intermittent / Continuous	Downwind / Upwind / Sidewind
7						, 	PI: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind
8	-1						P1: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind
							P1: 0 / T / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind
							P1: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind



Remark for Odour Intensity:

0 - Not detected

Proposed Patrol Route

1 - Slight 2 - Moderate

3 - Strong

Possible Odour 4 - Extreme Sources (No.) / No odour perceived or an odour so weak that it cannot be readily

characterized or described Identifiable odour, slight Identifiable odour, moderate Identifiable odour, strong

Severe odour

Potential (normal operation)

Checkpoint
Assumed Odour

Odour Patrol Team:

ALS Representative

Fan / 196 Cm

.,..,.)

(

Pi. Allen Poon

P2: Pan Yuen

SUCZ QATAL ROSROCA

OSCAR Bioenergy Joint Venture

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	12/9/2018
Start & End Time (24hr)	From 14:05 To 14:37
Type of Patrol	Weekly / Monthly / Ac hoe / Follow up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	28.9
Relative Humidity (%)	65
Monitoring Point	0/2/3/4/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	Q
Possible Source of Odour	
Monitoring Point	1/0/3/4/5/6/7/8
Intensity of Odour	0/0/2/3/4
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	1/2/3/4/5/6/7/8
Intensity of Odour	@/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	i i
Follow-up Actions Romanke	
In front of the lift lobby with	h smell of pre-treatment, hot plastic, musty.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAW	Postrice In		Sarah Ho
Signature	FTONS	7	NA	Sarah
Date	8108/19/51	12/9/18		12/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	12/9/2018
Start & End Time (24hr)	From 14:05 To 14:37
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up-/ T&C Period Patrol
Weather Condition	Sunny / Qloudy / Windy / Humid / Foggy /
Temperature (C)	28.9
Relative Humidity (%)	65
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	(9/1/2/3/4
Characteristic of Odour	9,2,2,0,7,4
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	O' X I Z I Z I Z I
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	VIAI21314
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	0121014
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	
1 Secondary	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Dottale chi		Savah Ho
Signature	Pins	P	NA	Sarah.
Date	1×19/2018	12/9/18		12/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	14/9/2018
Start & End Time (24hr)	From 15=00 To 15=18
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	29.1
Relative Humidity (%)	71.
Monitoring Point	0/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	2/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/9
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	Hot Plastic
Possible Source of Odour	DSV OF Briggs Holds
Monitoring Point	Hot Plastic PSV Of Biogas Holder 1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	W/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	9,1,2,3,4
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	0.2121014
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	9.2.2.011
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	TEVELE Na	Datnelledun		Sarah Ho
Signature	7~	de la	NA	Sarah
Date	14/9/2018	14/9/18		14/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	14/9/2018
Start & End Time (24hr)	From (5:00 To (5:18
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	29.7
Relative Humidity (%)	i
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	W. X. Z. J. J. T.
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/ Q/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	0/1/2/3/4
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	7012121314
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	1
Possible Source of Odour	
Follow-up Actions Ramork	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Texesa Na	Veknoch hu		Sarah Ho
Signature	2	1900	NA	Sarah
Date	14/9/2018	14/3/10		14/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	17 / 9 / 2018
Start & End Time (24hr)	From 15=00 To 15:22
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	27.1
Relative Humidity (%)	82
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	@/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/0/3/4/5/6/7/8
Intensity of Odour	0/(1)/2/3/4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	PSV of Biogas Holder 1/2/0/4/5/6/7/8
Intensity of Odour	@/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	0
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	1/2/3/4/6/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	- Alaria
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	(D/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	Dancel Chor	Darale Jim		Sarah Ho
Signature	7.7	P	NA	Sarah
Date	17/3/2018	19/9/18		17/9/2018

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Prepared By: Terence CHAN

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	17/9/2018
Start & End Time (24hr)	From 5=00 To 5=22
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	27.1
Relative Humidity (%)	82
Monitoring Point	1/2/3/4/5/6/0/8
Intensity of Odour	0/Q/2/3/4
Characteristic of Odour	SSOW Smell
Possible Source of Odour	Pra-treatment Skip orrea
Monitoring Point	Pre-treatment Skip arrea 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	8/1/2/3/4
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	
Point 7 = front poller shutter dool	r is broken due to super typhoon "diff".

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Dance Chai	Datricle You		Sarah Ho
Signature	3	P	NA	Sarah
Date	17/8/2018	17/9/18		17/9/2018

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	19 / 9 / 2018
Start & End Time (24hr)	From 14:00 To 4=24
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	29.5
Relative Humidity (%)	73
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	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	HzS
Possible Source of Odour	Near to the Biogas Holder
Monitoring Point	Near to the Biogas Holder 1/2/3/Q/5/6/7/8 Q/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	@/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	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Tess CHAN	Rollide Jum		Someh Ho
Signature	Tess	X	NA	Sarah.
Date	18 Sept 2018	19/09/18.		19/9/2018

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Prepared By: Terence CHAN

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	19 / 9 / 2018
Start & End Time (24hr)	From 14:00 To 14:24
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up-/ T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	29.5
Relative Humidity (%)	13
Monitoring Point	1/2/3/4/5/6/0/8
Intensity of Odour	0 / 1 2 / 3 / 4
Characteristic of Odour	SSOW smell
Possible Source of Odour	Pro-treatment Skip area
Monitoring Point	Pre-treatment Skip area 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	
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	
(obby's SSOW Smell is a	l bit strong.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Tess CHAN	Posture Jin		Sarah Ho
Signature	Tess	8	NA	Sarah
Date	IP Sept 20HP	19/08/12.		19/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	21 / 9 / 2018 From 13 - 3 / To 14 : 90
Start & End Time (24hr)	
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	30.8
Relative Humidity (%)	67
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/(1)/2/3/4
Characteristic of Odour	SSOW Smell damaged of Boas
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/10/2/3/4
Characteristic of Odour	Mixture smell
Possible Source of Odour	PSV of Biogas Holden
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/(1/2/3/4
Characteristic of Odour	SSOW SMELL
Possible Source of Odour	Pre-treatment
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	11212115461719
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	12/2/4/5/6/17/0
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6) / 7 / 8
Intensity of Odour	W/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions - Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	
Name	Daniel Cha	Patrick Jun		Sarah Ho
Signature	3	2	NA	Sarah
Date	21/9/2018	21/9/13		31/9/2016

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	21/9/2018
Start & End Time (24hr)	From 3-36 To 14:00
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	30.8
Relative Humidity (%)	62
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	(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	
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	
Lobby's has a bit ssow	I smell.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel Choi	Patricle you		Sarah Ho
Signature	-il	b	NA	Sarah
Date	21/9/2018	21/4/18		21/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	24/9/2018
Start & End Time (24hr)	From 14:30 To 14:5]
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28.3
Relative Humidity (%)	
Monitoring Point	Q/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	0/11/2/3/4
Characteristic of Odour	HOT Plastic Smell
Possible Source of Odour	PSV of Brogas Holder
Monitoring Point	HOT Plastic Smell PSV OF Brogas Holder 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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM	Petrick May		Sarah Ho
Signature	Front	P	MA	Sarah
Date	24/9/2018	24/9/18	(411	24/9/2018

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	24/9/2018
Start & End Time (24hr)	From 14:30 To 14:57
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (じ)	28.3
Relative Humidity (%)	76
Monitoring Point	1/2/3/4/5/6/2/8
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	2
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
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	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	
Lobby has a bit mixture:	smell (food waste, hot plastic).

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAW	Patrick you		Sarah Ho
Signature	Find	n	NA	Savah
Date	24/9/2018	24/9/B		24/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	26 / 9 / 2018
Start & End Time (24hr)	From 14:00 To 14:28
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	30.7
Relative Humidity (%)	((
Monitoring Point	① / 2 / 3 / 4 / 5 / 6 / 7 / 8 ① / 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	Hint Plastic (Intermethout)
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	Hot Plastic
Possible Source of Odour	Near to Biogas Holder (Sight)
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	Soveh 20/(1)/2/3/4
Characteristic of Odour	Digestate
Possible Source of Odour	Centrifuge Iguver
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	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Patricle Im		Sarah Ha
Signature	Fall	R	NA	Sarah
Date	26/9/2018	26/0/18		26/9/2018
		77		0/1/00/5

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Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	26 / 9 / 2018
Start & End Time (24hr)	From 14:00 To 14:38
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period Patro
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	30-1
Relative Humidity (%)	66
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 2 / 8
Intensity of Odour	0 / 1) / 2 / 3 / 4
Characteristic of Odour	Rubbish smell
Possible Source of Odour	Noar to Pro-treatment area.
Monitoring Point	Near to Pre-treatment area. 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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Vetrile Im		Sarah Ho
Signature	Fal		NA	Sarah
Date	26/9/2018	26/4/19		26/9/2018
		/ // // -		

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	28 / 9 / 2018
Start & End Time (24hr)	From 10:02 To 10:18
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	29.6
Relative Humidity (%)	57
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	①/2/3/4/5/6/7/8 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 / \$\alphi\$ / 2 / 3 / 4
Characteristic of Odour	Plastic
Possible Source of Odour	Biogas Holdor
Monitoring Point	Biogas Holder 1/2/3/4/5/6/7/8 Q/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	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	0 / 10 / 2 / 3 / 4
Characteristic of Odour	Grass
Possible Source of Odour	1/2/3/4/5/Q/7/8
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Teresa Ng	Patrick VIM	Edvin Word	Sarah Ho
Signature	,		Ho Tsz Kin V	
	2		Er &	Sarah
Date	28/9/2018	28/9/12	28/9/18	28/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	28 / 9 / 2018
Start & End Time (24hr)	From 10=02 To 10=18
Type of Patrol	Weekly (Monthly / Ac hoc / Follow-up /
Weather Condition	Suphy / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	29.6
Relative Humidity (%)	57
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / Q / 2 / 3 / 4
Characteristic of Odour	Carbage
Possible Source of Odour	Rubbish Truck
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	Ø/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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Teresa Ng	Dutick Im	Edvin Word	Sarah Ho
Signature		1001	170 Tsz Kind	
	7_		7	Sarah
Date	28/9/2018	28/9/18	28/9/18	28/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations				
Date	28 September 2018				
Start & End Time (24hr)	From 17:57 To 18:11 Biran				
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /				
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /				
Temperature (C)	29°e				
Relative Humidity (%)	~ 60%0				
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8				
Intensity of Odour	0/1/2/3/4 081				
Characteristic of Odour	\$vid				
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	Region & holders				
Monitoring Point	1 / 2 / 3 / 4 4 5 / 6 / 7 / 8				
Intensity of Odour	0/(12)2/3/4				
Characteristic of Odour	Garbaye				
Possible Source of Odour	Publish Strue areu				
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					
This is a copy read only and shall before to ALS report.					

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	PIONA LAM	DOTATE Um	Edwin Won / Ho Tszkin	
Signature	Fort	D. J.	2 \$	(u
Date	28/9/2018	28/9/12	28/9/18	28/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations			
Date	28 September 2018			
Start & End Time (24hr)	From /7: 7 To /8: 11 Floring			
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /			
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /			
Temperature (C)	129°C			
Relative Humidity (%)	1/2/3/4/5/6/7/8			
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7) / 8			
Intensity of Odour	0/1/2/3/4 0 1			
Characteristic of Odour				
Possible Source of Odour	Granhaye,			
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 (8)			
Intensity of Odour	0/1/2/3/4 081			
Characteristic of Odour	Gra haj e			
Possible Source of Odour	Rubbreh Track			
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				
Three is a copy record only and shall when to ALS Report.				

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Dotrive ofm	Edwin Way / Ho Tazler	
Signature	Fass	Ze	2	
Date	28/9/2018	78/9/12	28/9/18	28/9/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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ALS Technichem (HK) Pty Ltd

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong <u>T</u> +852 2610 1044 <u>F</u> +852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1847225

ADDRESS:

CONTACT:

Edwin Wong

Venture

No. 5, Sham Fung Road, Siu

Ho Wan, North Lantau

Island, NT, Hong Kong

LABORATORY:

Hong Kong

SUB-BATCH:

DATE OF PATROL: DATE OF ISSUE:

31 August 2018 18 September 2018

PROIECT:

Odour Patrol for the Organic

Resources Recovery Centre

Phase 1 in Siu Ho Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

COMMENTS

Date of Odour Patrol: 31 August 2018.

Odour Patrols were conducted by ALS Technichem (HK) Pty Ltd staff during 10:22 - 10:41 and 18:01 - 18:19.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

General Manag er - Hong Kong

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The odour patrol was conducted during daytime and evening / night time.

2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (ie the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

Two odour patrol team members from ALS Technichem (HK) Pty Ltd were sent to conduct the patrol work during each session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area in the vicinity of the inspection area.

The odour patrol was conducted during daytime and evening / night time.

The patrol team was required to move slowly from one to the other monitoring locations and use their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

During the patrolling, the meteorological and surrounding information are recorded:

- the prevailing weather condition;
- the wind direction:
- the wind speed:
- location where odour is spotted;
- possible source of odour;
- perceived intensity of the odour:
- duration of odour: and
- characteristics of the odour detected

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The odour patrol location is shown in Appendix 1.



Work Order: HK1847225 Odour Patrol Result: Daytime:

3.1.

tion	Panellist	Weather	Time	T (°C)	RH	WS (m/s)	D iree)	Odour	Duration of Odour	Direction from	On-Site (Observation
Location	Pane	Wea	Time		(%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
1	1	Cloudy	10:22	28.1	77.8	0.0	NA	0	NA	NA	NA	NA
'	2	Cloudy	10.22	20.1	77.0	0.0	NA	0	IVA	NA NA	IVA	NA.
2	1	Cloudy	1 10 36	28.4	84.4	0.0	NA	1	Intermittent	NA	Plastic	Biogas Holder Tank Relief Valve
2	2	- I	10:26	20.4	4 64.4	.4 0.0	IVA	1	Intermittent	NA	Plastic	Biogas Holder Tank Relief Valve
3	1	Cloudy	10:28	28.4	89.7	1.2	000	0	NA	NA	NA	NA
	2	Cloudy	10.20	20.4	09.7	1.2	000	0	IVA	NA	IVA	
4	1	Cloudy	10:31	29.0	85.1	0.1	297	0	NA	NA	NA	NA
	2	Cloudy	10.51	29.0	03.1	0.1	231	0	IVA	IVA	IVA	NA
5	1	Cloudy	10:33	3 28.7	86.0	0.0	NA	0	NA NA	ΝΔ	NA	NΔ
	2	Cloudy	10.55	20.7	00.0	0.0	INA	0	INA.	NA	IVA	NA



Location	Panellist	ther	Timo	T (0C)	RH	WS (m/s)	WD (Degree)	Odour	Duration of Odour	Direction from Source	On-Site Observation	
Loca	Pane	Weather	Time	(°C)	(%)	(m/s)	бәД) М	Intensity			Odour Characteristics	Potential Odour Source
6	1	Cloudy	10:36	28.8	84.1	1.6	015	0		NA NA	NA	NA
0	2	Cloudy	10.50	20.0	04.1	1.0	013	0	NA NA			NA
7	1	Claudy	10.20	20.0	20.0	1.6	001	0	0 NA	NA	NA	NA
/	2	Cloudy	10:39	29.0	88.7	1.6	001	0				
8	1				04.2	1.2	027	0	NA NA	NA		NA
0	2	Cloudy	10:41	29.0	84.3	1.2	027	0	INA		NA	NA

Remark:

T: Air Temperature;
RH: Relative Humidity;
WD: Wind Direction;
WS: Wind Speed.



3.2. Evening / Night time:

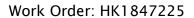
tion	Panellist	ther	Time	T (26)	RH	WS	D ree)	Odour	Duration of	f Direction from	On-Site Observation		
Location	Pane	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source	
1	1	Cloudy		27.8	82.4	0.0	NA	0	NA	NA	NA	NA	
'	2	Cloudy	18:01	27.0	02.4	0.0	INA	0	INA	NA	NA	NA	
2	1	Cloudy	loudy 18:04	1001	27.7	00.0	0.0	NIA	1	Intermittent	NA	Plastic	Biogas Holder Tank Relief Valve
2	2	Cloudy	16.04	27.7		Intermittent	NA	Plastic	Biogas Holder Tank Relief Valve				
3	1	Cloudy	18:06	27.5	94.0	.0 0.0	NA	0	NA NA	NA	NA	NA	
3	2	Cloudy	18.00	27.5	94.0	0.0	IVA	0	NA .	INA	NA		
4	1	Cloudy	18:08	27.9	90.7	0.0		0			NA NA	NA	
4	2	Cloudy	18.08	27.9	90.7	0.0	NA	0	NA	IVA	IVA	NA	
5	1	Cloudy	18:10	20.0	91.9	0.0		0	NA	NA	NA	NA	
)	2	Cloudy	10.10	28.0	91.9	0.0	NA	1	Continuous	NA	Grassy	The vegetation along the boundary.	



tion	Panellist	ther	Times	T (2C)	RH	WS	WD (Degree)	Odour	Odour from	Direction from		Observation
Location	Pane	Weather	Time	(°C)	(%)	(m/s)	M M	Intensity	Odbur	Source	Odour Characteristics	Potential Odour Source
6	1	Cloudy	18:14	28.1	90.8	0.0	NA	0	. NA	NA	NA	NA
	2	Cloudy	18.14	20.1	90.0	0.0	INA	0	IVA			IVA_
7	1	Claudy	1017	7 20 4	00.0	0.0		0	N/A	NA	NA	NA
	2	Cloudy	18:17	28.4	90.0	0.0	NA	A 0	NA			
8	1	Claudy	10.10	202	90.1			0				NA
0	2	Cloudy	18:19	28.3	90.1	0.7	250	0	NA	NA	NA	NA

Remark:

T: Air Temperature;
RH: Relative Humidity;
WD: Wind Direction;
WS: Wind Speed.









Proposed Patrol Route

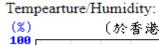
Possible Odour Sources (No.) / Checkpoint

Assumed Odour
Potential (normal operation)
From 1 (min.) to 3 (max.)



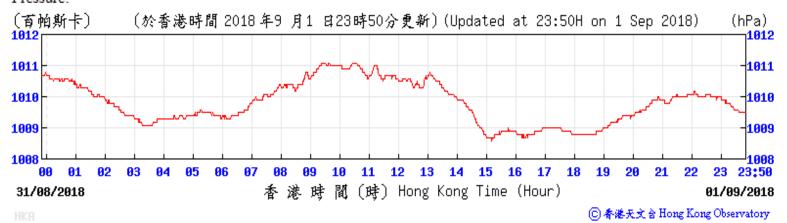
APPENDIX 2

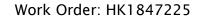
Extract Of Meteorological Observations From Hong Kong Airport Observatory Station





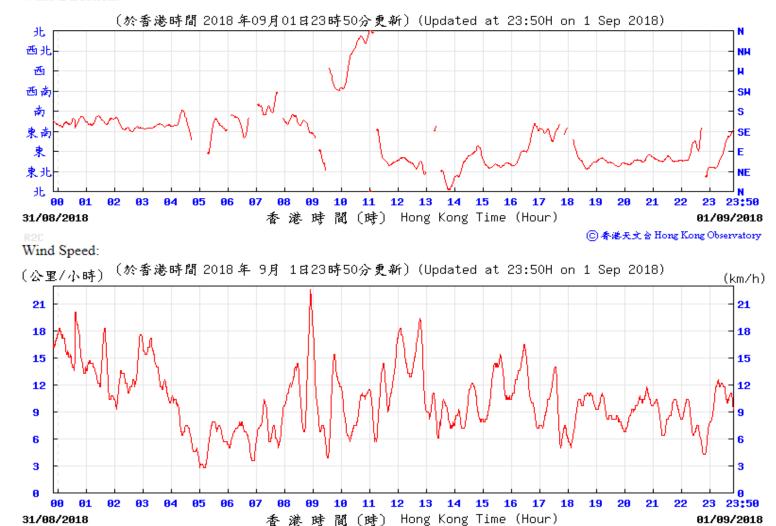
Pressure:







Wind Direction:





Work Order: HK1847225 APPENDIX 3

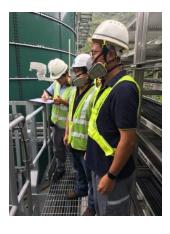
A3.1. Odour Patrol at Different Locations - Daytime



Location: 1



Location: 2



Location: 3



Location: 4



Location: 5



Location: 6



Location: 7



Location: 8

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A3.2. Odour Patrol at Different Locations – Evening / Night time







Location: 2



Location: 3



Location: 4



Location: 5



Location: 6



Location: 7



Location: 8



ALS Technichem (HK) Pty Ltd

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1849200

_

CONTACT: ADDRESS:

Edwin Wong

Venture

No F Share

No. 5, Sham Fung Road, Siu

LABORATORY: SUB-BATCH:

DATE OF ISSUE:

Hong Kong

Ho Wan, North Lantau Island, NT, Hong Kong

SUB-BATCH:

Cong DATE OF PATROL:

0

10 September 2018 18 September 2018

PROJECT:

Ad Hoc Odour Patrol for the

Organic Resources Recovery Centre Phase 1 in Siu Ho

lan

Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

COMMENTS

Ad hoc Odour Patrol was conducted by ALS Technichem (HK) Pty Ltd staff during 16:15 – 16:38 on 10th September 2018.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manager - Hong Kong

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Ad hoc odour patrol service was conducted on 10th September 2018.

2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (ie the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

Two odour patrol team members from ALS Technichem (HK) Pty Ltd were conducted the ad hoc patrol work and the patrol route was guided by the client. All members were free from any respiratory diseases during patrol day. None of the members has been working or living in the area in the vicinity of the inspection area.

The patrol team was required to move slowly from one to the other monitoring locations and used their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

During the patrolling, the meteorological and surrounding information were recorded:

- the prevailing weather condition;
- the wind direction:
- the wind speed;
- location where odour is spotted;
- possible source of odour:
- perceived intensity of the odour:
- duration of odour; and
- characteristics of the odour detected

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The ad hoc odour patrol locations were shown in Appendix 1.



3. Result:

Work Order: HK1849200

tion	Panellist	Weather	Time	Т	RH	WS	WD	Odour	Duration of	Direction from	On-Site O	bservation
Location	Pane	Wea	Time	(°C)	(%)	(m/s)	(Deg)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
1	1	Cloudy	16:15	28.7	77.9	0.8	200	1	Intermittent	Downwind	Crassy	Trees and grass
ı	2	Cloudy	10.15	20.7	77.9	0.8	309	1	mtermittent	Downwind	Grassy	
2	1	Cloudy	16:19	29.2	77.4	0.9	324	0	NΑ	NA NA	NA	NA
2	2	Cloudy	10.19	29.2	77.4	0.9	324	0	NA		NA.	
3	1	Cloudy	Cloudy 16:22 28.9 77	77.4	0.0	NA	0	NA	NA	Grassy	Trees and grass	
3	2	Cloudy	16:22	20.9	77.4	0.0	IVA	1	Intermittent	IVA	drussy	rrees and grass
4	1	Cloudy	16:25	28.9	75.4	1.1	252	1	Intermittent [Downwind	Smell of concrete and	Construction waste
4	2	Cloudy	10.23	20.9	75.4	1.1	253	1	mtermittent	Downwind	garbage	container
5	1	Claudy	16.20	28.0	01.6	0 0	NIA	1	Intermittent	NA	Musty smell of	Construction material
)	2	Cloudy	Cloudy 16:30 28.9 81.6 0.0 NA	1	mtermittent	INA INA	construction material	storage zone				
6	1			16.26 20.7	76.8	0.0	NA	0	NA	NA	NA	NA
	2	Cloudy	16:36	29.1	70.8	0.0	INA	0	IVA	INA	IVA	NA NA

Remark:

T: Air Temperature;
RH: Relative Humidity;
WD: Wind Direction;
WS: Wind Speed.



Work Order: HK1849200 APPENDIX 1

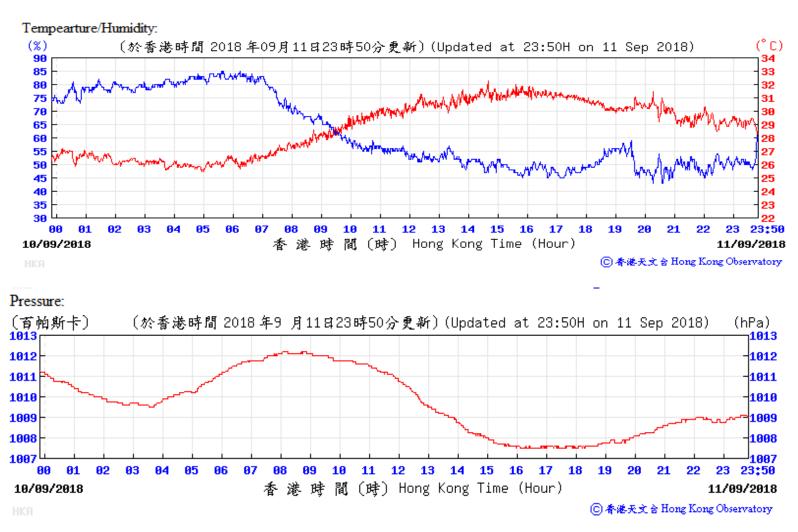
Ad hoc Odour Patrol Route





Work Order: HK1849200 APPENDIX 2

Extract of Meteorological Observations from the Hong Kong Airport Observatory Station

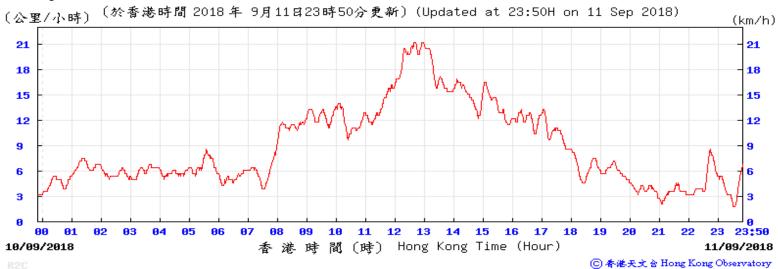




Wind Direction:



Wind Speed:





APPENDIX 3

Photos for the Odour Patrol Locations



Location: 1



Location: 2



Location: 3



Location: 4



Location: 5



Location: 6



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	2 october) of 8
Start & End Time (24hr)	From 14:16 To 14:55
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / TSC
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (C)	33°C
Relative Humidity (%)	46%
Monitoring Point	A) / 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	Hot plastic smell - intermettent
Possible Source of Odour	PAV at Gas/blder
Monitoring Point	1/2/3/4/5/6///8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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	Food was he . Tutomittent such
Possible Source of Odour	From mounteness platfum / Roller Shottler not filly
Follow up Actions Remark	Closey
Schneen 74384 the cont & Formal between	1/2/3/4/5/6/7/8 0/0/2/3/4 Food existe Intermittent such From rigintenine platfin / Rober Shottler not filly closely Ruproom 1 & Jet Mary Purp Room 1, Leak of digestate

10	EPD	Employer	Independent	OSCAR
	Representative	Representative 1	Odour Patrol Team	Bioenergy JV
Name	Texasa Na	Your le com		Telence (HAN)
Signature	2	J. J	N/A	
Date	Y/ 10/2018	2/10/13		2/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	2 october 2018
Start & End Time (24hr)	From 14:06 To 14:35
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (°C)	33%
Relative Humidity (%)	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/10/2/3/4
Characteristic of Odour	Food waste intermstent
Possible Source of Odour	RCV Rue unlocky Gula process
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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Tereca Na	Patrick Um		Terence (IHAN)
Signature	2	4	N/A	- Commercial Commercia
Date	> /10/2018	2/10/R		0/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	3 October 2018
Start & End Time (24hr)	From 14:45 To 15:15
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	27°C
Relative Humidity (%)	6690
Monitoring Point	① / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/ 1 / 2 / 3 / 4
Characteristic of Odour	Hot Plactic smell in
Possible Source of Odour	PRV of Gas Holder-C
Monitoring Point	1 /(2) / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Plastre Smell -
Possible Source of Odour	PRV of Gas Holder
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	0 / (1)/ 2 / 3 / 4
Characteristic of Odour	mixed smelled brogus and digestate, minor.
Possible Source of Odour	The second secon
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	(0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	
Posit 2, the infonctly nearly reach	"2", a stronger smell than previous.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Vatride 1 in		TORNE CHAN
Signature	Fars	1200		
T	7/11/11/11		NA	
Date	3/10/2018	3/10/12		3/10/2018

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	3. October 2018
Start & End Time (24hr)	From /4 /5 To /5:/5
Type of Patrol	-Weekly / Monthly / Ac hoe / Follow-up / T& C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	27°C
Relative Humidity (%)	1/2/3/4/5/6/01/8
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	Very minor unknow smell.
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	
Follow up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative /	Odour Patrol Team	Bioenergy JV
Name	PLONA LAM	Patrice Im		Terence CHAN
Signature	Fas	D	NA	
Date	3/10/2018	3/10/12		3 /10/20/8

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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	5 / (0 / 2018
Start & End Time (24hr)	From 9=32 To 8=54
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T& C Paving
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	
Relative Humidity (%)	28.2
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
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	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Hot Plastic (Intermittent)
Possible Source of Odour	PSV Of Ringue Holdon
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	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	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative,	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Patrick UM		Sarah HO
Signature	Find	P	NA	Sarah
Date	5/10/2018	×/10/12		5/10/2018
		110		

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	5/10/2018
Start & End Time (24hr)	From 9:32 To 9:54
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T& C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	28-2
Relative Humidity (%)	38
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	SSOW smell (minor)
Possible Source of Odour	Pre-treatment skip area
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	
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	
ž.	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Retuile Vin		Sarah Ho
Signature	Tras		NA	Sarah
Date	J/10/2018	5/10/17		5/10/2018

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	8 October 2018
Start & End Time (24hr)	From //:00 am To //:/?
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / Te C. Pariod
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (℃)	3400
Relative Humidity (%)	5570
Monitoring Point	FD / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	-Hot plactic smell -ce
Possible Source of Odour	PRV of Kingas Hiller
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 (1) 2 / 3 / 4
Characteristic of Odour	Foot Mostre anull
Possible Source of Odour	PRV 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	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	miner smell of wastewater.
Possible Source of Odour	sludge adorfu truck nearly
Follow up Actions Remark	The state of the s

	EPD	Employer	Independent	OSCAR
	Representative	Representative ,	Odour Patrol Team	Bioenergy JV
Name	Teresa Na	Kestrik ym		TEPENCE (ITAIN)
Signature		()		LE LEVILLE CITION
	2	2	6/0	
Date	8 Oct 2018	2/10/10	NA	8/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	8 October 2018
Start & End Time (24hr)	From //:00 To //:/3
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	34°C
Relative Humidity (%)	557
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	minor SSOW swell
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	(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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Teresa Na	Vatto Im		TARICO CHAN
Signature		10000		- CHECKE CITTA
		7	NA	e e
Date	8 Oct JOB	8/10/18		8/10/2010

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	10/10/2018
Start & End Time (24hr)	From 11:30 To 12:03
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	27.5
Relative Humidity (%)	77
Monitoring Point	0/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/0/3/4/5/6/7/8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	Strong Hot Plastic Small
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	Savah 10/1/2/3/4
Characteristic of Odour	Minor Toilet Smell
Possible Source of Odour	Building 1
Monitoring Point	1 / 2 / 3 / 0 / 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	Employer	Independent	OSCAR
	Representative	Representative 1	Odour Patrol Team	Bioenergy JV
Name	Texes Na	Varvick Im		Sarah Ho
Signature	2	P	NA	Sarah
Date	10 Oct 2018	10/10/12		10/10/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	10 / 10 / 2018
Start & End Time (24hr)	From 11:30 To 12:03
Type of Patrol	117 - 11 /34 - 11 / A 1 / T 11 / T - 2 - 2
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy / Rainy.
Temperature (C)	27.5
Relative Humidity (%)	
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	
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	
Monitoring Point 7 & 8 cancell	ed due to raing day at 12:03.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Tereson Non	Det 17KUm		Sarah Ho
Signature	>_		NA	Sarah
Date	10 Oct 2013	10/10/18		(0/10/2018

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	12 /10 /2018
Start & End Time (24hr)	From 11:25 To 11:52
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.9
Relative Humidity (%)	63
Monitoring Point	(1) / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	① / 2 / 3 / 4 / 5 / 6 / 7 / 8 ② / 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	Strong Hort Plastic (interior)
Possible Source of Odour	PSV of Brown Holder
Monitoring Point	Strong Hot Plastic (intensitent) PSV of Biogas Holder 1/2/3/4/5/6/7/8
Intensity of Odour	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
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
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	
lower has compost smell (int	envitrent).

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Chor	Patrick you		Sarah Hu
Signature	5)	R	NA	Savah
Date	12/10/2018	12/10/18.		12/10/18

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Prepared By: Terence CHAN

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	12/10/2018
Start & End Time (24hr)	From (1:25 To 11:52
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.9
Relative Humidity (%)	63
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	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	V
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
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	sanlif Chai	Daturle from		Sarah Ho
Signature	0	100110		00000
	3		NA	Sarah
Date	12/10/2018	12/10/12		12/10/18
	/ /	17/10.		/ 1

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	15 / 10 / 2018
Start & End Time (24hr)	From [[:3] To [[:50]
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	26.4
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	0/0/2/3/4
Characteristic of Odour	Hot Plastic (Intermittent)
Possible Source of Odour	PSV of Ringer Holder
Monitoring Point	PSV of Biogns Holder 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 / 0 / 2 / 3 / 4
Characteristic of Odour	Compost & toilet smell
Possible Source of Odour	Building 2, portable toilet
Follow up Actions Remark	1 pre sauce softer

EPD	Employer	Independent	OSCAR
Representative	Representative	Odour Patrol Team	Bioenergy JV
Teresa Na	Patrile Jone		Sarah Ho
,	h		Journ M
7			
V ~~	V	NA	Sarah
15 Oct 2018	15/10/12		15/10/2018
	Representative (EYEGE Ng	Representative Representative Representative	Representative Representative Odour Patrol Team (LYLCA NA PATROL AND NA

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	15 /10 / 2018
Start & End Time (24hr)	From :3 To :50
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Pariod
Weather Condition	Sunny / Qloudy / Windy / Humid / Foggy /
Temperature (C)	26.4
Relative Humidity (%)	77
Monitoring Point	1/2/3/4/5/6/2/8
Intensity of Odour	0 / 0 / 2 / 3 / 4
Characteristic of Odour	SSOW smell
Possible Source of Odour	Pre-treatment avea
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Rubbish Smell
Possible Source of Odour	Waste Collection Truck
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	8/1/2/3/4
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Terasa Na	Dotrile In		Sarah HO
Signature	~~		NA	Sarah
Date	15 Det 2018	15/10/18		15/10/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	18 October 2018
Start & End Time (24hr)	From (4:05 To (4:30)
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period Patrol
Weather Condition	Sunny/Cloudy Windy / Humid / Foggy /
Temperature (°C)	26°C
Relative Humidity (%)	7 707
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 0 (1) 2 / 3 / 4
Intensity of Odour	0 (1) 2 / 3 / 4
Characteristic of Odour	Hot Pactic Coull
Possible Source of Odour	PRV of Gas 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	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 /(3 / 6 / 7 / 8
Intensity of Odour	0 / ① / 2 / 3 / 4
Characteristic of Odour	moner glass small
Possible Source of Odour	alass.
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	① / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	
Outside the door at Pipe Gallery	, smell of Compost; firm Lourveer of Pipe Galley

	EPD	Employer	Independent	OSCAR
	Representative	Representative,	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Lostrille In		Terence (HAN)
Signature	Fars	V	NA	
Date	18/10/2018	17/10/10		18/10/2018
		(0) (0) (1)		

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	18 october 2018
Start & End Time (24hr)	From 14:05 To 14:30
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Paying Patrol
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26°c
Relative Humidity (%)	73%
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 /(7) / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Smell of SSOW, Washington
Possible Source of Odour	R(V Bar , Vacioum Touck
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	
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	Employer	Independent	OSCAR
	Representative	Representative,	Odour Patrol Team	Bioenergy JV
Name	TONA LAM	Cot incle Im		Toence (HAN
Signature	Find	Partac	NA	Co
Date	(8/10/2018)	10/10/16		18/10/2018
		16/10/10		1-10

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	19/10/2018
Start & End Time (24hr)	From 9:00 To 9:17
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	74 7
Relative Humidity (%)	70
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	70 (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	0/0/2/3/4 Hot Plastic PSV of Biogas Holder 1/2/3/4/5/6/7/8
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Brogas 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	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 0 / \$\tilde{Q}\$ / 2 / 3 / 4
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	minor compost smell
Possible Source of Odour	Composting hall
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAN	Potricle Im		Sarah HO
Signature	1	1000		Odiran 110
	less		NÁ	Sarah
Date	1P Oct 2018	19/10/10		19/10/2018
		171716		1 2010

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	19/10/2018
Start & End Time (24hr)	From 9:00 To 9:17
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	24.7
Relative Humidity (%)	70
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	V = 1 = 1
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	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	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	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAN	Petrile In		Sarah HO
Signature				SWAN NO
	Tess		NA	Sarah
Date	[P Oct 2018	19/10/18		19/10/2018
		11/11/0		111012010

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	22 October 2018
Start & End Time (24hr)	From //: 3/ To //s47
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Period
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (C)	28%
Relative Humidity (%)	74%
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	· daste smell
Possible Source of Odour	PSV of Gas Hilder
Monitoring Point	1 / 7 //4 // / / 6 / 6 / 7 / 9
Intensity of Odour	1/2/3/4/3/6//8 1/2/3/4/3/6//8 1/2/3/4/3/6//8 1/2/3/4/3/6//8 1/2/3/4/3/6/7/8 0/1/2/3/4
Characteristic of Odour	dostic smell
Possible Source of Odour	BV of Gas Itolder.
Monitoring Point	1/2/3/0/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 6 / 6 / 7 / 8
Intensity of Odour	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	<u> </u>
Possible Source of Odour	
Follow up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR
Manne		Representative	Odour Patroi Team	Bioenergy JV
Name	Texesa Na	VaxIIZU IIM		TECUCE (CHA)
Signature				·
	2	R	NA	a
Date	22 /10/2016	22/12/18	1411	22/10/2018

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	22 October 2018
Start & End Time (24hr)	From /1:3 To /344
Type of Patrol	Weekly / Monthly / Ac hoe / Follow-up / T&C Period
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (°C)	28°c 7490 1/2/3/4/5/6/7/8
Relative Humidity (%)	749
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	chell of Ssow
Possible Source of Odour	Pretromon Hall
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/(D/2/3/4
Characteristic of Odour	plastic small - Tytemortlent
Possible Source of Odour	PSVot Gas 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	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	Teresa Na	Vatoric Im		Terence CHAN
Signature	>	R	NA	e Cc
Date	72/10/2018	22/10/18		22/10/2017

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	24/10/2018
Start & End Time (24hr)	From 3=57 To 4:22
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	26.8
Relative Humidity (%)	69
Monitoring Point	(1) / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Minor 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	Hot Plastic
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	
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 / 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	
Louver feat centrifuge has strong dig	estate smell -

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TOTESER NO	Patrille you		Sarah HO
Signature		h /		
	2~	02	NA	Sarah
Date	24/10/2018	24/10/13.		24/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Date Start & End Time (24hr) Type of Patrol Weather Condition Temperature (C)	From 3.57 To 14:22 Weekly/Monthly/Ae hoe/Follow-up/ T&C Pariod Sunny/Cloudy/Windy/Humid/Foggy/ 26.8
Type of Patrol Weather Condition Temperature (C)	From 3557 To YELV Weekly / Monthly / Ac hoc / Follow-up / T&C Pariod Sunny / Cloudy / Windy / Humid / Foggy /
Weather Condition Temperature (°C)	Weekly / Monthly / Ac hoc / Follow-up / T & C Pariod Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	Sunny / Cloudy / Windy / Humid / Foggy /
	69
Relative Humidity (%)	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Rubbish smell, minor hot plastic
Possible Source of Odour	Pre-treatment Skip area. PSV of Biosas Holdon
Monitoring Point	Pre-treatment skip area, PSV of Biogas Holder 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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Teresa Na	Patricle you		Sarah HO
Signature		n		
			T	
	, ,	10	NA	o arah
Date	N4 /10 /2018	24/10/18,		24/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	26 October 2018
Start & End Time (24hr)	From (0:05 To (0:20
Type of Patrol	From /O : O S TO /O : 20 Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	(Sunny/ Cloudy / Windy / Humid / Foggy /
Temperature (°C)	~28°C
Relative Humidity (%)	~747
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	Moctro
Possible Source of Odour	Bioges Huder.
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 -0 / 1 / 2 / 3 / 4 / S O
Intensity of Odour	0/1/2/3/4 / S D
Characteristic of Odour	grass.
Possible Source of Odour	9
Monitoring Point	1 / 2 / 3 / 4 /(\$ / 6 / 7 / 8 0 / (1) / 2 / 3 / 4
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	giasc
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	rubblich (plastec
Possible Source of Odour	1/2/3/4/5 R6/7/8 0/(1)2/3/4 rubblich / placter process hal! face
-Follow-up Actions Romans	,
	ease when to the final report from ALS

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Bill CHEN.	Edwin, Tszkin	Terence CHAN
Signature	Fins	Bin	2	The state of the s
Date	26/10/8018	26/10/2018	26/10/2018	26/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	26 October 2018
Start & End Time (24hr)	From 10:05 To 10:20
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (°C)	25°C 27470
Relative Humidity (%)	2 74%
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	-0/1/2/3/4 / A O
Characteristic of Odour	Exhaust gas
Possible Source of Odour	Vehicles
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	+11/2/3/4 Odl
Characteristic of Odour	rubbish
Possible Source of Odour	rubhish Truck.
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 0 / 1 / 2 / 3 / 4
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Rough	,
	ease when to the final report from ALS.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Bill CHEN.	Edwin, Tsz kin	Terence (HAN)
Signature	Find	Bin	Z~ \$	lon.
Date	8) 05/01/06	26/10/2018	26/10/2018	26/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations		
Date	26 Detobar 2018		
Start & End Time (24hr)	From 18:03 To 18:15		
Type of Patrol	Weekly / Monthly / Ae hoe / Follow-up / T & C Period		
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy / Night		
Temperature (°C)	~2700		
Relative Humidity (%)	2070		
Monitoring Point	(1)2/3/4/5/6/7/8		
Intensity of Odour	0 / ① / 2 / 3 / 4		
Characteristic of Odour	645		
Possible Source of Odour	Grace		
Monitoring Point	1 / (2)/ 3 / 4 / 5 / 6 / 7 / 8		
Intensity of Odour	0 / (1 / 2 / 3 / 4		
Characteristic of Odour	Platic		
Possible Source of Odour	Stogas Holder		
Monitoring Point	1 / 2 /(3) 4 / 5 / 6 / 7 / 8		
Intensity of Odour	0-11/2/3/4 Odl		
Characteristic of Odour	17(astrc		
Possible Source of Odour	Brogas Holdon		
Monitoring Point	Plastre Brogas Holdor 1/2/3/4/5/6/7/8 (1) 1/2/3/4		
Intensity of Odour	(1) 1 7 2 / 3 / 4		
Characteristic of Odour			
Possible Source of Odour			
Monitoring Point	1 / 2 / 3 / 4 / (\$) / 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			
Characteristic of Odour	Rubblish		
Possible Source of Odour	Process hall Fan		
Follow up Actions Remark			
This is a copy record only. Please refer to the final report from ALS.			

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM	Philip Cheuna	Edwin , Tszkin	Terence (HAN)
Signature	Fas		6 A	tu
Date	8) 0 /0 /06	26/10/18	26/10/18	26/10ROLP

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations			
Date	26 October 2018			
Start & End Time (24hr)	From 18:03 To 18:15			
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period			
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy / Windy			
Temperature (°C)	~ 270			
Relative Humidity (%)	~ 20%			
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 /(7) / 8 (0) / 1 / 2 / 3 / 4			
Intensity of Odour	(I) / 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	Rubbish.			
Possible Source of Odour	1/2/3/4/5/6/7/8			
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	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			
This is a copy record only. A.	rase refer to the final report from ALS			

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLOND LAM	Philip Cheuna	Edwin, TEZKIL	Terence CHAN
Signature			Fr &	
Date	26/10/2018	26/10/18	26/10/18	26 /10/2011.

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	29 / 10 / 2018
Start & End Time (24hr)	From (1:32 To (1:55)
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26.5
Relative Humidity (%)	30
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	① / 2 / 3 / 4 / 5 / 6 / 7 / 8 ② / 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 / 10 / 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1/2/3/14/5/6/7/8
Intensity of Odour	0 / 0 / 2 / 3 / 4
Characteristic of Odour	Rubbish smell & Hot Plastic
Possible Source of Odour	WCV , PSV of Biogas Holder
Monitoring Point	WCV PSV of Biogas Holder 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	0/1/2/3/4
Intensity of Odour	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	Ø/11/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM	C L CHOW		Sarah HO
Signature	Fas	w. Han.	NÁ	Sarah
Date	39/10/2018	29/10 2d/8		29/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	29 / 10 / 2018
Start & End Time (24hr)	From 11:32 To 11:65
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	26.5
Relative Humidity (%)	20
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	Ø/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	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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	C L CHOW		Sarah Ho
Signature	Fal	w. Has	NA	Sarah
Date	29/10/2018	29/10/2018		29/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	31 /10 / 2018
Start & End Time (24hr)	From []: 0] To []: 26
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ TQC Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	25.5
Relative Humidity (%)	32
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 / Q / 2 / 3 / 4
Characteristic of Odour	Hot Plastic (Intermittent)
Possible Source of Odour	PSV of Brogas Holder
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	PSV of Brogas Holder 1/2/3/4/5/6/7/8 0/Q/2/3/4
Characteristic of Odour	Grass, sewage, hot plastic small (minor)
Possible Source of Odour	Grass. sawage, hot plastic smell (minor) Tree, truck, psy of Biogas Holder 1/2/3/0/5/6/7/8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / ① / 2 / 3 / 4
Characteristic of Odour	Digestate smell (minor)
Possible Source of Odour	Mixing Unit
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	<u> </u>
Possible Source of Odour	
Follow up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Patride Um		Sarah HO
Signature		6	NÁ	Sarah
Date	31/10/2018	31/10/18		31/10/2018
		1 10/10		311012010

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	31 /10 / 2018
Start & End Time (24hr)	From 10 To 11:26
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	25.5
Relative Humidity (%)	32
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 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	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Paterle Um		Sarah HO
Signature	Finl	P	NA	Sarah
Date	31/10/2018	31/10/18		31/10/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street

Kwai Chung, N.T., Hong Kong <u>T</u>+852 2610 1044 <u>F</u>+852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1856263

CONTACT:

Venture Edwin Wong

ADDRESS:

No. 5, Sham Fung Road, Siu

Ho Wan, North Lantau

Island, NT, Hong Kong

LABORATORY:

Hong Kong

SUB-BATCH:

0

DATE OF PATROL: DATE OF ISSUE: 26 October 2018 5 November 2018

PROJECT:

Odour Patrol for the Organic

Resources Recovery Centre

Phase 1 in Siu Ho Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

COMMENTS

Date of Odour Patrol: 26 October 2018.

Odour Patrols were conducted by ALS Technichem (HK) Pty Ltd staff during 10:05–10:20 and 18:03 – 18:15.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung General Manage

General Manager - Hong Kong

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1. Summary of Work

The odour patrol was conducted during daytime and evening / night time.

2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (ie the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

Two odour patrol team members from ALS Technichem (HK) Pty Ltd were sent to conduct the patrol work during each session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area in the vicinity of the inspection area.

The odour patrol was conducted during daytime and evening / night time.

The patrol team was required to move slowly from one to the other monitoring locations and use their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

During the patrolling, the meteorological and surrounding information are recorded:

- the prevailing weather condition;
- the wind direction;
- the wind speed;
- location where odour is spotted;
- possible source of odour;
- perceived intensity of the odour;
- duration of odour; and
- characteristics of the odour detected

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The odour patrol location is shown in Appendix 1.



3. Odour Pat 3.1. Daytime: **Odour Patrol Result:**

Location	Panellist	Weather	Time	Т	RH	WS			Duration of	Direction from	On-Site	Observation												
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	M (Deg	Intensity	itensity Odour	Source	Odour Characteristics	Potential Odour Source												
1	1	Suppy	10.05	27.0	72.0	0.0	025	0	NIA	NIA	NIA	NA												
'	2	Sunny	10:05	27.8	72.8	0.9	025	0	NA	NA	NA													
	1	C		10.00	10.00	10.06	10.06	10.06	10.06	10.05	10.00	10.06	10.00			20.0	60.0	0.7	220	1	Continuous	Downwind	DI	Biogas Holder Tank
2	2	Sunny	10:06	29.8	69.8	0.7	0.7 329	1	Continuous	Downwind	Plastic	Relief Valve												
3	1	Commen	10.08	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	70.3	0 NA	NIA	0	NIA	NIA	NIA			
5	2	Sunny	10:08	29.2	70.2	0	NA	0	NA	NA	NA	NA												
4	1	C	10.10	20.2	70.0	0	NIA	1	Intermittent	NA	Constant	V												
4	2	Sunny	10:10	28.2	70.0	0	NA	0	NA	NA	Grassy	Vegetation												
5	1		10.12	20.0	74.7	0.3	212	1	Continuous	Side wind	Current	V												
)	2	Sunny	10:12	28.0	/4./	0.2	0.2 312	0.2 312	0.2 312	0.2 312	0.2 312	1	Continuous	Side wind	Grassy	Vegetation								

Work Order: HK1856263



Location	Panellist	ther	Time I KH WS Q = Odour Duration of from		Direction	On-Site Observation									
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source			
6	1	Sunny	10:14	29.4	89.8	1.2	335	1	Intermittent	Upwind	Garbage and plastic	Process Hall Exhaust Fan			
	2	Sullily	10.14	29.4	89.8	1.2	2 333	1	Intermittent	Upwind					
7	1	Sunny	10:16	28.6		74.1	74.1	74.1	0.9	240	1	Intermittent	Side wind	Vehicle exhaust	V.1.1
/	2	Sullily	10.16	20.0	74.1	0.9	0.9 349	349	0	NA	NA	gas	Vehicles		
8	1	Cummu					20.2	75.4	0.4	222	0	NA	NA	Carlana	C. I. T. I.
8	Sunny 10:20 30.3 75.4 0.4	0.4	323	1	Intermittent	Side wind	Garbage	Garbage Truck							

Remark:

Air Temperature; Relative Humidity; Wind Direction; Wind Speed. T: RH: WD:

WS:



3.2. Evening / Night time:

Location	Panellist	Weather	Time	т	RH	WS	WD (Degree)	Odour	Duration of	Direction from	On-Site Observation				
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source			
1	1	Cloudy	18:03	27.5	77.2	0.8	007	1	Continuous	Side wind	Craccy	Variation			
'	2	Cloudy	18.03	27.5	77.2	0.8	007	1	Continuous	Side willd	Grassy	Vegetation			
2	1	Cloudy	10.04	18:04	10.04	10.04	27.4	79.5	0.8	349	1	Continuous	Downwind	Plastic	Biogas Holder Tank
	2	Cloudy	10.04	27.4	79.5	0.8		Continuous	Downwind	riastic	Relief Valve				
3	1	Cloudy	18:05	27.1	79.4	0.6	0.6 349	0	NA	Dannaniad	Plastic	Biogas Holder Tank			
5	2	Cloudy	16.03	27.1	79.4	0.0	549	1	Continuous	Downwind	Plastic	Relief Valve			
4	1	Cloudy	18:07	27.4	80.9	0	NA	0	NA	NA		NIA			
7	2	Cloudy	10.07	27.4	80.9	U	IVA	0	NA	INA	NA	NA			
5	1		19.00	27.1	02.1	0.6	242	0	NA	NIA	NIA	NA			
5	Cloudy 18:09 27.1 83.1	03.1	0.0	343	0	IVA	NA	NA	NA						



Location	Panellist	Weather	Time	Т	RH	WS	WD (Degree)	Odour	Odour Duration of		Odour Duration of		On-Site	Observation	
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	M (Deg	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source			
6	1		18:11	27.1	83.4	0.9	220	0	NA			Process Hall Exhaust			
	2	Cloudy	10.11	27.1	1 83.4 0.9	329	1	Continuous	Upwind	Garbage	Fan				
7	1	Cloudy	18:14	27.2	82.3	0.9	242	343 0	NIA	NA	NIA				
,	2	Cloudy	10.14	27.2	02.3	0.9	545		NA	NA	NA	NA			
8	1		Intermittent	NIA		F									
6	2	Cloudy	18:15	5 27.5 82.6 0 NA 1 Intermittent	NA	Garbage	From the plant								

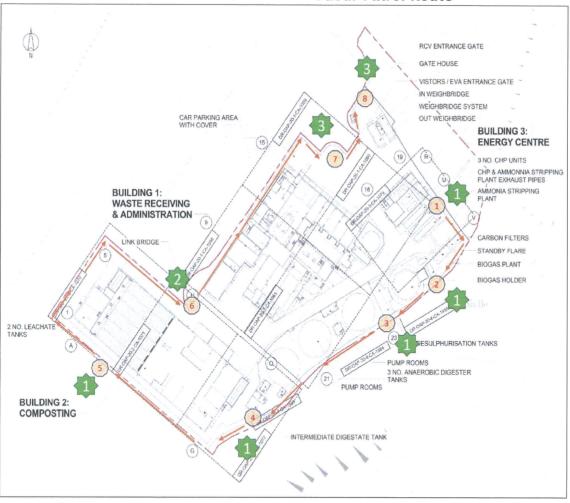
Remark:

T: RH:

Air Temperature; Relative Humidity; Wind Direction; Wind Speed. WD: WS:



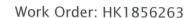
APPENDIX 1
Odour Patrol Route



Proposed
Patrol Route

Possible Odour Sources (No.) / Checkpoint

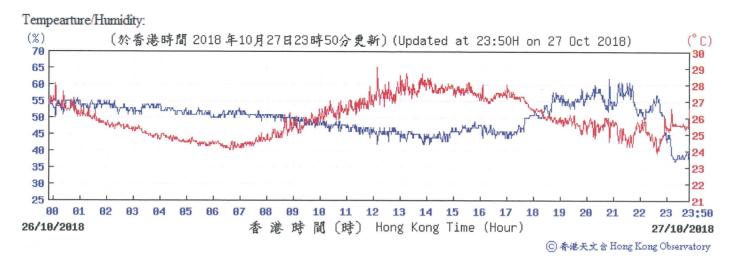
Assumed Odour
Potential (normal
operation)
From 1 (min.) to 3 (max.)



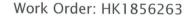


APPENDIX 2

Extract Of Meteorological Observations from Hong Kong Airport Observatory Station

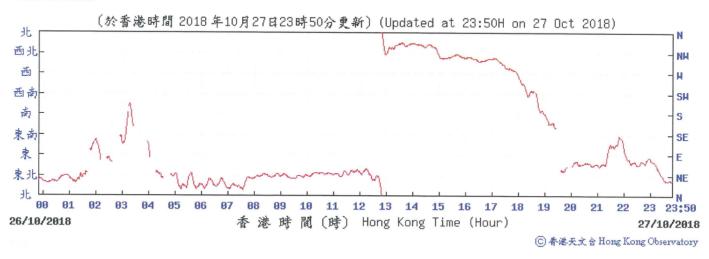


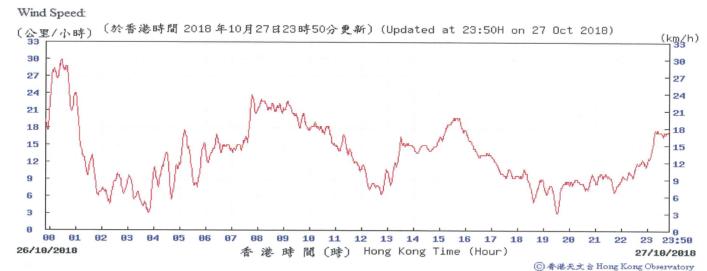






Wind Direction:







APPENDIX 3

A3.1. Odour Patrol at Different Locations – Daytime



Location: 1



Location: 5



Location: 2



Location: 6



Location: 3



Location: 7



Location: 4



Location: 8



A3.2. Odour Patrol at Different Locations – Evening / Night time



Location: 1



Location: 2



Location: 3



Location: 4



Location: 5



Location: 6



Location: 7



Location: 8



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	2/11/2018
Start & End Time (24hr)	From (4:00 To (4:1)
Type of Patrol	Weekly / Monthly / Ae hoc / Follow-up / T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	24.6
Relative Humidity (%)	62
Monitoring Point	() / 2 / 3 / 4 / 5 / 6 / 7 / 8 () / 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	
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	PSV of Biogas Holder 1/2/3/4/5/6/7/8 0/1/2/3/4
Intensity of Odour	@ / 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	Minor (Dispost Smell Composting Hall 1/2/3/4/5/6/7/8 0/1/2/3/4
Possible Source of Odour	Composting Hall
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	Q/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Chor	Postvicle Im		Sarah HO
Signature		0		
).			Sorah
			NA	- or will
Date	2/11/2018	2/11/12.		2/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	2 / 11 / 2018
Start & End Time (24hr)	From 14:00 To 14:15
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	24.6
Relative Humidity (%)	62
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	SSOW small
Possible Source of Odour	Waste Collection Truck
Monitoring Point	Waste Collection Truck 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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Chai	DATTER IM		Sarah HO
Signature		P	NA	Sarah
Date	2/11/2018	2/11/18		2/11/2018

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Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	5 / 11 / 2018
Start & End Time (24hr)	From 14:04 To (4:29)
Type of Patrol	Weekly/Monthly/Ae hoc/Follow-up/ T&C Period
Weather Condition	Sunny/ Cloudy / Windy / Humid / Foggy /
Temperature (C)	27.3 65
Relative Humidity (%)	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / ① / 2 / 3 / 4
Characteristic of Odour	Hot gas smell
Possible Source of Odour	CHP
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	PSV of Biogas Holder 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	Digestate Smell
Possible Source of Odour	Digostate Smell IDT
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(D) / 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 / Q / 2 / 3 / 4
Characteristic of Odour	Digestate Smell LDT
Possible Source of Odour	IDT
Follow up Actions Remark	~
•	

	EPD	Employer	Independent	OSCAR
	Representative	Representative,	Odour Patrol Team	Bioenergy JV
Name	TESS CHAN	Patrick Im		Sarah Ho
Signature	Tess	P	NÁ	Sarah
Date	05 NOV 2018	5/11/12	1771	5/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	5/11/2018
Start & End Time (24hr)	From $ 4:04 $ To $ 4:19 $
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	77.3
Relative Humidity (%)	65
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1/2 / 3 / 4
Characteristic of Odour	Minor Hot Plastic
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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAIN	Patrick ym		Sarah HO
Signature	T	. 0		
	(est		NA	Sarah
Date	05 NOV 2018	5/11/11		5/11/2018

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Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	7 / 11 / 2018
Start & End Time (24hr)	From 11:05 To 11:28
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ TQC Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	26. 3
Relative Humidity (%)	70 ①/2/3/4/5/6/7/8 ②/1/2/3/4
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	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	Hot Plastic, wastewater small
Possible Source of Odour	PSV of Biogas Holder, Building 1/2/3/4/5/6/7/8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Digestate smell, wasterwater smell
Possible Source of Odour	1/2/3/4/5/6/7/8
Monitoring Point	1 / 2 / 3 / 4 / 6 / 6 / 7 / 8
Intensity of Odour	@/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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FRONA LAM	Patrick In		Sarah HO
Signature	Find	D.		
	1000		NÁ	Javah
Date	71112018	7/11/18		7/11/2018

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Approved By:

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

/ [] / 2018 [[:05 To [[:28]] hly/Ac hoc/Follow-up/ T&C Period //Windy/Humid/Foggy/ 26.3 70 1/2/3/4/5/6/7/8 0/1/2/3/4
11:05 To 11:28 hly / Ae hoe / Follow-up / T & C Period // Windy / Humid / Foggy / 26.3
y / Windy / Humid / Foggy / 26.3
y / Windy / Humid / Foggy / 26.3
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
@/1/2/3/4
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
1/2/3/4/5/6/7/9
114131413101110
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
0/1/2/3/4
0/1/2/3/4
_

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIDNA LAM	Putricle your		Sarah Ho
Signature				
	Fran]	R	NA	Sarah
Date	7/11/2018	9/11/12		7/11/2018
) ,	1/ // 10 ·		

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Prepared By: Terence CHAN

Approved By:

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	9 / 11 / 2018
Start & End Time (24hr)	From (1:30 To 11:45
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ TQC Period
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/
Temperature (C)	25.3
Relative Humidity (%)	58
Monitoring Point	① / 2 / 3 / 4 / 5 / 6 / 7 / 8 ② / 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	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1/2/3/4/5/6/9/8
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	(Q)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	¥

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Tess CHAN	Patricle of in		Sarah Ho
Signature				•
C	Tess		NA	Sarah
Date	L NOV 2018	9/11/19		9/11/2018

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Prepared By: Terence CHAN

Approved By:

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	9/11/2018
Start & End Time (24hr)	From 11:30 To 11:45
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Pariod
Weather Condition	Sunny// Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.3
Relative Humidity (%)	1/2/3/4/5/6/2/8
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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAIN	Vetricke Um		Sarah Ho
Signature	Tess	R	NA	Sarah
Date	P NOV 2018	9/11/19		9/11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	12 / 11 / 2018
Start & End Time (24hr)	From 14:03 To 14:26
Type of Patrol	Weekly / Monthly / Ac hoe / Follow-up / T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	27
Relative Humidity (%)	73
Monitoring Point	Q/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	Hot Plastic
Possible Source of Odour	PSV of Bionas Holder
Monitoring Point	Hot Plastic PSV of Biggs Holder 1/2/8/4/5/6/7/8
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	0/11/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow up Actions Remark	*
,	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Chai	Vatrick In		Sarah HO
Signature		R	NA	Sarah
Date	12/11/18	12/11/18.		12/11/2018

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Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	12 / 11 / 2018
Start & End Time (24hr)	From 14:03 To 14:16
Type of Patrol	Weekly / Monthly / Ac hoe / Follow-up / T&C Pariod
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	2]
Relative Humidity (%)	73
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	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 1/3 / 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 0 / 1 / 2 / 3 / 4
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Martel Chai	Patricle Im		Sarah HO
Signature	2 1	K	.16	Sarah
		N	NA	Javan
Date	12/11/18	12/11/18		12/11/2018

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	14 / 11 / 2018
Start & End Time (24hr)	From 11:30 To 1:54
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ TQC Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.3
Relative Humidity (%)	69
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	@ / 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	Hot Plastic
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	(D) / 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	1/2/3/4/8/6/7/8
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	Minor Hot plastic
Possible Source of Odour	psv of Biogas Holder
Follow up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Choi			Sarah HO
Signature				
J	37	NA	NA	Sarah
Date	14/11/2018			14/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	14/11/2018
Start & End Time (24hr)	From (1:30 To 1:54
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.3
Relative Humidity (%)	69
Monitoring Point	1/2/3/4/5/6/2/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	,
Possible Source of Odour	
Monitoring Point	0/1/2/3/4/5/6/7/8
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 / 2/13 / 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	
Main lobby (U turn location) has	yubbîsh smell.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Choi			Sarah HO
Signature	0			
	3	NA	NA	Sarah
Date	14/11/2018			14/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	16/11/2018
Start & End Time (24hr)	From 11:40 To 12:05
Type of Patrol	Weekly/Monthly/Achoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.5
Relative Humidity (%)	25
Monitoring Point	1)/2/3/4/5/6/7/8
Intensity of Odour	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	Hot Plastic (Intermitient) PSV OF Biogas Holder
Possible Source of Odour	PSV of Biogas Holden
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	Wastewater (Very minor)
Possible Source of Odour	Building 2
Monitoring Point	Wastewater (Very minor) Building 2 1/2/3/4/5/6/7/8
Intensity of Odour	(v)./ 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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM			Sarah Ho
Signature	Fas			Sarah
	(00)	NA	NA	South
Date	16/11/2018			16/11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	16/11/2018
Start & End Time (24hr)	From (1:40 To 12:05
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.5
Relative Humidity (%)	15
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/12/3/4
Characteristic of Odour	Rubbish Smell
Possible Source of Odour	Pre-treatment Skip area
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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FINA LAM			Sarah HO
Signature	Frank	NA	NA	Sarah
Date	16/11/2018			16/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	19/11/2018
Start & End Time (24hr)	From 11:30 To 11:56
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T Q C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.9
Relative Humidity (%)	55
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	@ / 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 / 12 / 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 / 12 / 3 / 4
Characteristic of Odour	Digestate Smell
Possible Source of Odour	Around AD I Area
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	compost smell
Possible Source of Odour	composting Hall, louver of pipe gallen
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	e e

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	lotice you		Sarah HO
Signature	Fran	K	NA	Sarah
Date	19/11/2018	19/11/12		19/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	19 / 11 / 2018
Start & End Time (24hr)	From 11:30 To 11:56
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25.9
Relative Humidity (%)	55
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	Smoking smell
Possible Source of Odour	Staff
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Partrick In		Sarah HO
Signature	Front	2	NA	Sarah
Date	19/11/2018	19/11/12		19/11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	21 / 11 / 2018
Start & End Time (24hr)	From 11:33 To 11:55
Type of Patrol	Weekly/Monthly/Ac hoc/Follow-up/ T & C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	26.2
Relative Humidity (%)	11
Monitoring Point	①/2/3/4/5/6/7/8 ①/1/2/3/4
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	1/2/3/4/5/6/7/8
Characteristic of Odour	Hot Plactic
Possible Source of Odour	PSV of Biogas Holdon
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	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	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
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	
Follow up Actions Remark	
Follow up Actions Remark Centrylage lower has strong digestat.	e Smell.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FION A LAM			Sarah HO
Signature	Front			
	1 0010 >	NA	NA	Sarah
Date	8/11/16			21/11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	21 / 11 / 2018
Start & End Time (24hr)	From [1:37 To [1:55
Type of Patrol	Weekly/Monthly/ Ac hoc/Follow-up/ T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	26.2
Relative Humidity (%)	71
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	
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	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM			Sarah Ho
Signature	Find	NA	NA	Sarah
Date	21/11/2018			2//11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	23 Nov 2018
Start & End Time (24hr)	From 10:30 To 10:47
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T & C Period
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (C)	25°C
Relative Humidity (%)	25°C 5470 (1)/2/3/4/5/6/7/8 (0) 1/2/3/4
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	Plostre small
Possible Source of Odour	PSV of Gas Holder
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Smell ad Lood waste
Possible Source of Odour	Openius of mantaine Plating Gal
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	v.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daril Choi			Genro (HAL)
Signature	~ . l			
			NA	(~
Date	23/11/2018			23/11/2018

Document Title: Odour Patrol Procedure

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	23 Nov 2018
Start & End Time (24hr)	From (0:47)
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	25°C
Relative Humidity (%)	5470
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 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	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	/

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Daniel Choi	/		Telence CHAN
Signature	. 0			
	2		NA	
Date	23/11/2018			23/11/2018
	/ /			

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	26 / 11 / 2018
Start & End Time (24hr)	From 13:36 To 14:01
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	23.6
Relative Humidity (%)	66
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 / 9 / 2 / 3 / 4
Characteristic of Odour	Strong Hot Plastic (Intermitment) (nearly 2)
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	Strong Hot Plastic (Intermetrant) (nearly 2) PSV of Biogas Holder 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 / 💆 / 6 / 7 / 8
Intensity of Odour	0 / 10 / 2 / 3 / 4
Characteristic of Odour	Grass Smell
Possible Source of Odour	1/2/3/4/5/6/7/8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	@/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM	DATTLE IN		Sarah HO
Signature	Fail	P	NA	Sarah
Date	26/11/2018	26/11/18.		26 /11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	26/11/2018
Start & End Time (24hr)	From (3:36 To (4:0)
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (と)	23.6
Relative Humidity (%)	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	Y
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	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	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	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIGNA LAM	Patrole Jin		Sarah HO
Signature	Fal	R	NA	Sarah
Date	8105/11/08	26/4/18.		26/11/2018

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	28 / 11 / 2018
Start & End Time (24hr)	From /1:26 To /1:44
Type of Patrol	Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	23.2
Relative Humidity (%)	0 14
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 Minor Hot Plastic PSV of Biogas Holder 1/2/3/4/5/6/7/8
Characteristic of Odour	Minor 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	1 / 2 / 3 /(4) / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Compost smell
Possible Source of Odour	Mixing Unit
Monitoring Point	1 / 2 / 3 / 4 /(5)/ 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Grass Smell
Possible Source of Odour	Type
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Intensity of Odour	(9' / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions	
Centrifuge lower with digestate	shell (minor).

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Tess CHAN			Sarah HO
Signature	Less			
	7 4	NA	NA	Sarah
Date	28 Nov 2018			28/11/2018

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Prepared By: Terence CHAN

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	28 / 11 / 2018
Start & End Time (24hr)	From 11:26 To 11:44
Type of Patrol	From To To Take Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny /Cloudy/ Windy / Humid / Foggy /
Temperature (で)	73 V
Relative Humidity (%)	74
Monitoring Point	1/2/3/4/5/6/0/8
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	sewage smell
Possible Source of Odour	Main Gate Channel
Monitoring Point	Sewage smell Main Gate Channel 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 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	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Tess CHAN			Sarah HO
Signature	101			
	fles	NA	NA	Sarah
Date	28 Nov 2018			28/11/2018

Document Title: Odour Patrol Procedure

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	30 / 11 / 2018
Start & End Time (24hr)	From 11:21 To 11:40
Type of Patrol	Weekly / Monthly / Ad hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	24.6
Relative Humidity (%)	59.6 1/2/3/4/5/6/7/8 (0)/1/2/3/4
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	Plastic
Possible Source of Odour	Biogas Holder released valve
Monitoring Point	Brogas Holder released valve 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	P1:0 P2:1 Grass
Possible Source of Odour	Grass
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	P1:0 P2:1 Garbage
Possible Source of Odour	Process hall
Follow-up Actions	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIGNA LAM	Potrock Cum	Pan YUEN Edwin	Sarah Ho
Signature	Fall	P	Tan sto	Sarah
Date	30/11/2018	30/4/18	30/11/2018	30/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	30 / 11 / 2018
Start & End Time (24hr)	From 11:2 To 11:40
Type of Patrol	Weekly / Monthly / Ad hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	24.6
Relative Humidity (%)	59.6
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 2 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	Clarbage
Possible Source of Odour	lin loading Bay
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
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	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions	

	EPD	Employer	Independent	OSCAR	
	Representative	Representative	Odour Patrol Team	Bioenergy JV	
Name	FIONA LAM	Potrocle Im	Pan YUEN Edwin	Sarah HO	
Signature	Fas	R	Ran Ase	-Sarah	
Date	30/11/2018	20/11/2018	30/11/2018	30/11/2018	

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	30 / 11 / 2018
Start & End Time (24hr)	From 17:55 To 18:16
Type of Patrol	Weekly / Monthly / Ad hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	23.5
Relative Humidity (%)	67.8 ①/2/3/4/5/6/7/8 ②/1/2/3/4
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 0 / Q / 2 / 3 / 4 Plastic
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Plastic
Possible Source of Odour	Biogas Holder Relief Valve
Monitoring Point	Biogas Holder Relief Valve 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 / 10 / 2 / 3 / 4
Characteristic of Odour	Bionas
Possible Source of Odour	Composting Building
Monitoring Point	Biogas Composting Building 1/2/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	A mmonía
Possible Source of Odour	Process Hall
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	compost
Possible Source of Odour	Process Hall
Follow-up Actions	
	! Proces Hall

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Philip Cheuna	Pan Tuen / Edwin Word	Sarah HO
Signature	Fard		Run \$2	Sarah
Date	30 11/2018	30/11/2018	30/11/2018	30/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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1 of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	30 / 11 / 2018
Start & End Time (24hr)	From 17:55 To 18:16
Type of Patrol	Weekly / Monthly / Ad hoc / Follow-up / T&C Period
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	235
Relative Humidity (%)	67.8 1/2/3/4/5/6/Q/8 Q/1/2/3/4
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	@/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	
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	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM	Philip cheung	Pan Ynen/Edwin	Sarah HO
Signature	Fan		Pan In	Sarah
Date	30/11/2018	30/11/208	30/11/2018	30/11/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

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2 of 2



ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong T +852 2610 1044 F +852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1862874

CONTACT:

Mr Edwin Wong

Venture

ADDRESS:

No. 5, Sham Fung Road, Siu

Ho Wan, North Lantau

SUB-BATCH:

Hong Kong

Island, NT, Hong Kong

DATE OF PATROL:

LABORATORY:

DATE OF ISSUE:

30 November 2018 14 December 2018

PROJECT:

Odour Patrol for the Organic

Resources Recovery Centre

Phase 1 in Siu Ho Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

COMMENTS

Date of Odour Patrol: 30 November 2018. Odour Patrols were conducted by ALS Technichem (HK) Pty Ltd staff during 11:21 - 11:40 and 17:55 - 18:16.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manag - Hong Kong

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The odour patrol was conducted during daytime and evening / night time.

2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (ie the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

Two odour patrol team members from ALS Technichem (HK) Pty Ltd were sent to conduct the patrol work during each session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area in the vicinity of the inspection area.

The odour patrol was conducted during daytime and evening / night time.

The patrol team was required to move slowly from one to the other monitoring locations and use their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

During the patrolling, the meteorological and surrounding information are recorded:

- the prevailing weather condition;
- the wind direction:
- the wind speed:
- location where odour is spotted;
- possible source of odour;
- perceived intensity of the odour:
- duration of odour: and
- characteristics of the odour detected

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described				
1	Slight	Identifiable odour, slight				
2	Moderate	Identifiable odour, moderate				
3	Strong	Identifiable odour, strong				
4	Extreme	Severe odour				

The odour patrol location is shown in Appendix 1.



Work Order: HK1862874 Odour Patrol Result: Daytime:

3.1.

Location	Panellist	Weather	T:	Т	RH	WS	WD (Degree)	Odour	Duration of	Direction from	On-Site	Observation
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
1	1	Sunny	11:21	24.6	59.6	1.2	194	0	NA	NA	NA	NA
'	2	Sullily	11.21	24.0	39.0	1.2	194	0	INA	NA	NA .	IVA
2	1	Sunny 11:23 24.5	11.72	24 5	57.7	1.3	116	1	Continuous	Upwind	Plastic	Biogas Holder Tank Relief Valve
2	2		24.5	37.7	1.5	116	1	Continuous	Upwind	Plastic	Biogas Holder Tank Relief Valve	
3	1	Sunny	11:25	25.7	60.8	0	NA	0	. NA	NA	NA	NA
,	2	Sullily	11.23	23.7	00.8		NA	0	IVA	NA	NA.	INA
4	1	Sunny	11:28	24.5	50.6	1.2	119	0	NA		NA	NA
_	2	Sullily	11.20	24.3	50.6	1.2		0	IVA	NA	IVA	
5	1	Sunny	11:30	25.8	52.6	0.9	306	0	NA	NA	NA	NA
J	2	Jullily	11.30	23.0	32.0	0.9	300	1	Intermittent	Side wind	Grassy	Nearby vegetation



tion	Panellist	ther	Time	Т	RH	WS	WD (Degree)	Odour	Duration of	Direction from Source	On-Site Observation		
Location	Pane	Weather	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour		Odour Characteristics	Potential Odour Source	
6	1	Suppy	11.24	23.7	52.8	2.9	000	0	NA	NA	NA	NA	
6	2	Sunny	11:34	23.7	32.0	2.9	099	1	Intermittent	Side wind	Garbage	Process Hall	
7	1	C mm	11.27	25.4	53.2	1.0	104	1	Continuous	Side wind	Garbage	Unloading Bay	
/	2	Sunny	11:37	25.4	33.2	1.9	104	1	Continuous	Side wind	Garbage	Unloading Bay	
	1	S	11.40	11:40 25.2 56.6 2.4	2.4	006	0	NIA	NA		NA		
8	8 2 S	Sunny	ny 11:40		56.6	2.4	086	0	NA	NA	NA	NA	

Remark:

T: Air Temperature;
RH: Relative Humidity;
WD: Wind Direction;
WS: Wind Speed.



3.2. Evening / Night time:

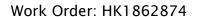
tion	llist	ther	- -	Т	RH	ws	D ree)	Odour	Odour Duration of	Direction from	On-Site (Observation
Location	Panellist	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
,	1	Fine	17:55	23.5	67.8	0.7	296	0	NA	NA	NA	NA
'	2	rille	17.33	23.3	07.8	0.7	290	0	NA NA	INA	NA	NA
2	1	Fine	17:57	21.9	77.6	0.4	014	1	Continuous	Upwind	Plastic	Biogas Holder Tank Relief Valve
2	2	Fine	17:57	21.9	77.0	0.4	014	1	Continuous	Upwind	Plastic	Biogas Holder Tank Relief Valve
3	1	Fine	18:00	21.5	80.8	0	NA	0	NA	NA	NA	NA
3	2	rine	18.00	21.3	60.6	U	INA	0	NA NA	NA NA	NA	NA
4	1	Fine	18:02	24.3	76.5	0	NIA	1	Intermittent	NA	Decayed Food	Composting Building
4	2	rine	16.02	24.5	70.3	0	NA	1	Intermittent	NA	Decayed Food	Composting Building
5	1	Fine	18:06	22.8	75.1	0.5	301	1	Continuous	Side wind	Urine	Process Hall
)	2	rine	16.00	22.0	/3.1	0.5	301	1	Continuous	Side wind	Urine	Process Hall



tion	Panellist	ther	Time	Т	RH	ws		Odour Duration of	Direction	On-Site Observation		
Location	Pane	Weather	Time	(°C)	(%)	(m/s)	M M	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source
6	1	Fine	18:10	23.0	69.8	1.0	006	1	Continuous	Side wind	Decay Food	Process Hall
0	2	rine	16.10	23.0	09.6	1.0	086	1	Continuous	Side wind	Decay Food	Process Hall
7	1	Fine	18:14	22.8	69.8	0		0	NA	NA	NA	NA
/	2	rine	18:14	22.8	09.8	0	NA	0	I NA			
0	1	Fina	ne 18:16	23.3	78.1	0	NA -	0	NA	NA	NA NA	NA
8	2	Fine						0				NA NA

Remark:

T: Air Temperature;
RH: Relative Humidity;
WD: Wind Direction;
WS: Wind Speed.





APPENDIX 1
Odour Patrol Route



Proposed Patrol Route

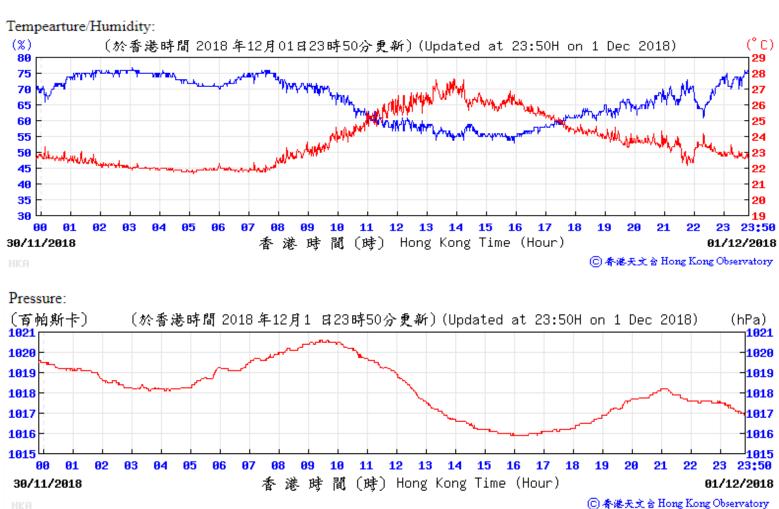
Possible Odour Sources (No.) / Checkpoint

Assumed Odour
Potential (normal operation)
From 1 (min.) to 3 (max.)



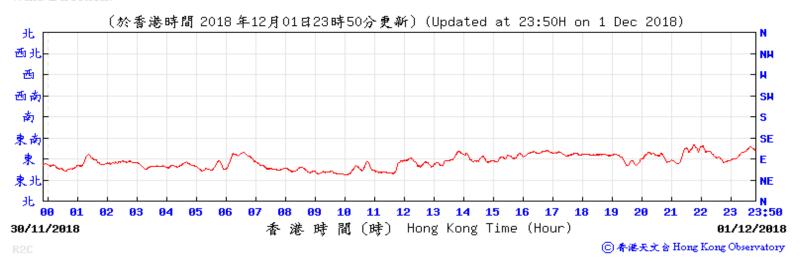
APPENDIX 2

Extract Of Meteorological Observations From Hong Kong Airport Observatory Station

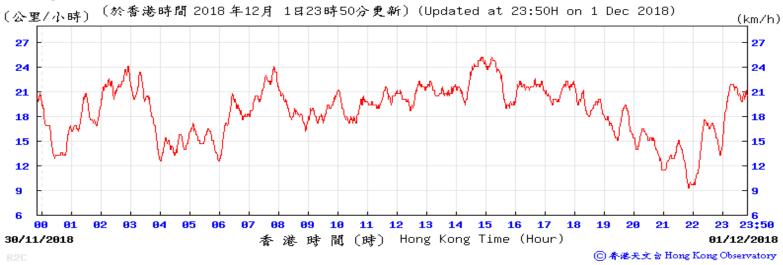




Wind Direction:



Wind Speed:





APPENDIX 3

A3.1. Odour Patrol at Different Locations – Daytime









Location: 1 Location: 2 Location: 3 Location: 4









Location: 5 Location: 6 Location: 7 Location: 8



A3.2. Odour Patrol at Different Locations – Evening / Night time



Location: 1



Location: 2



Location: 3



Location: 4



Location: 5



Location: 6



Location: 7

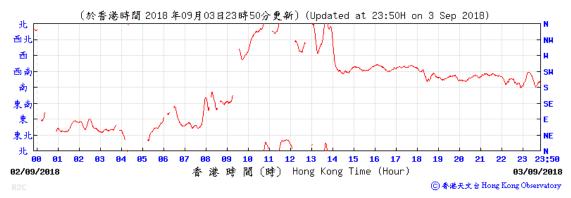


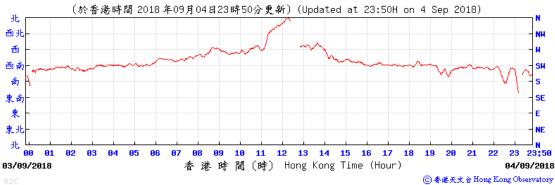
Location: 8

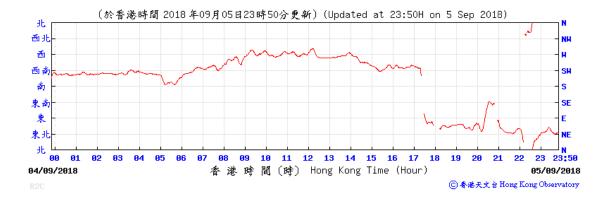
Annex H2

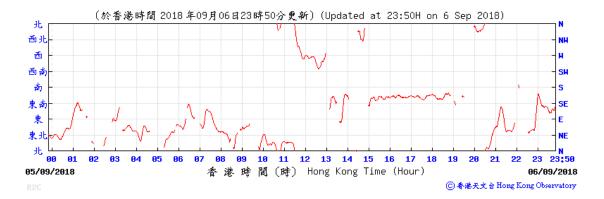
Local Wind Direction and Wind Speed

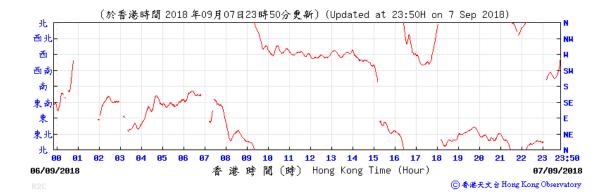
Wind Direction

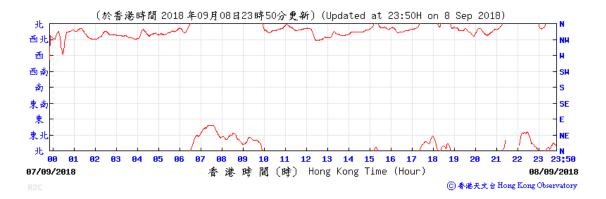


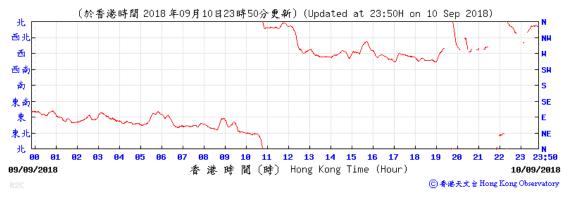




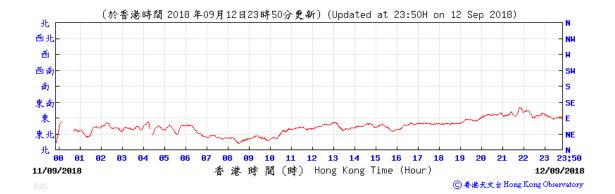


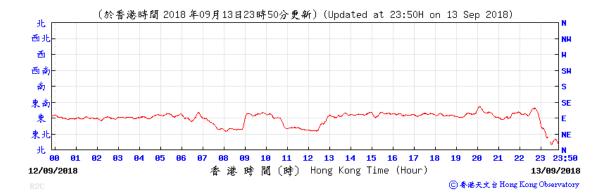


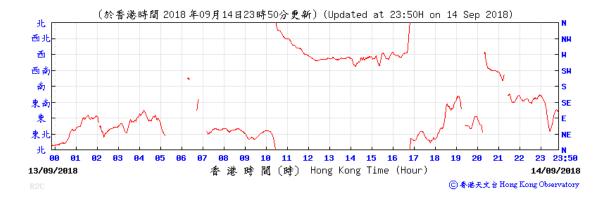


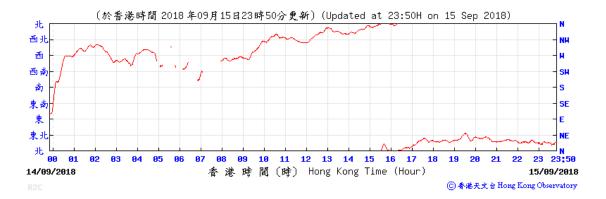


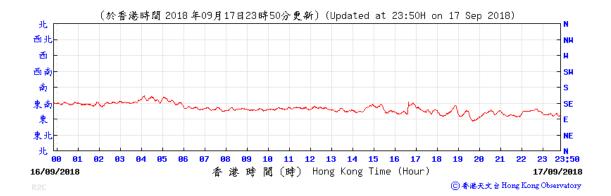


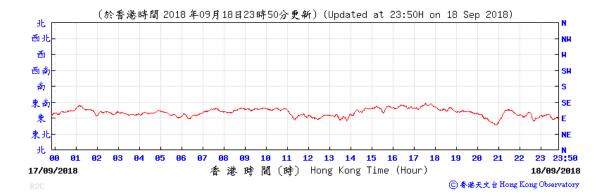


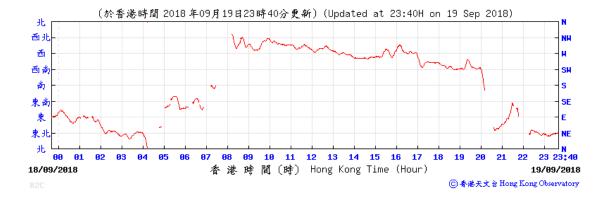


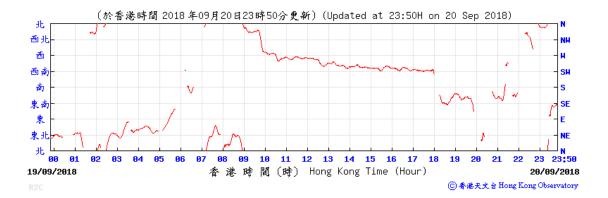


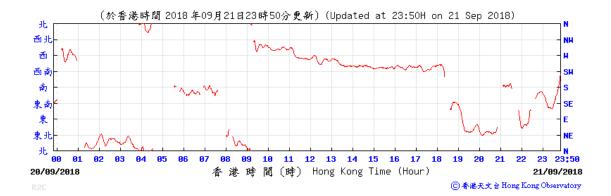


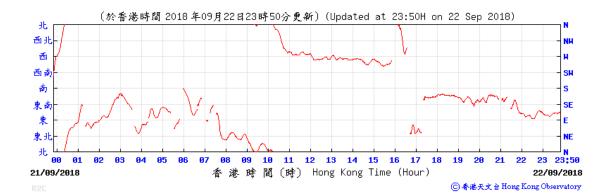




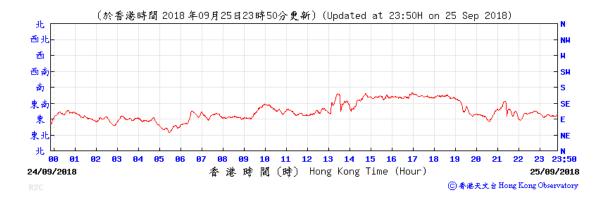


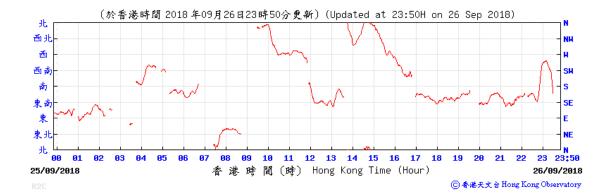




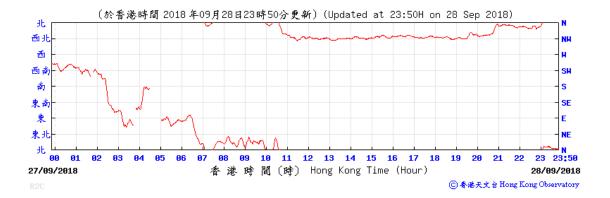


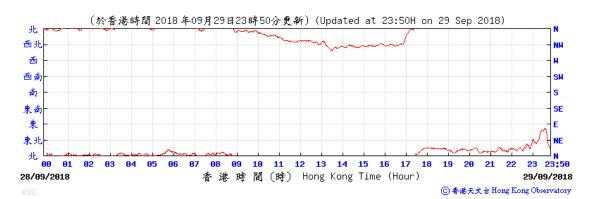








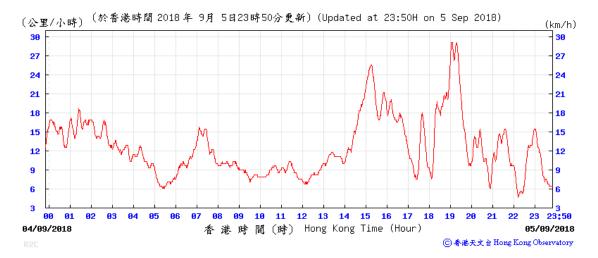




Wind Speed

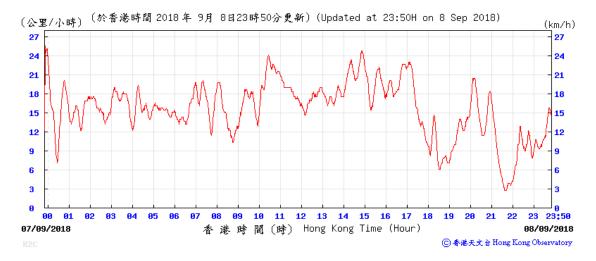


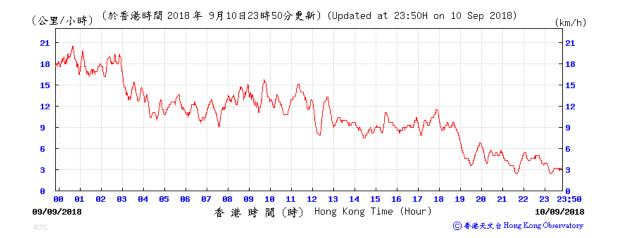




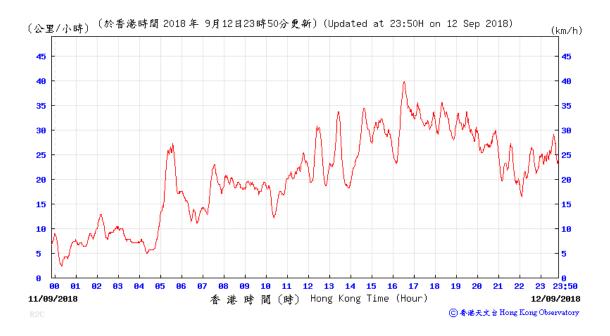




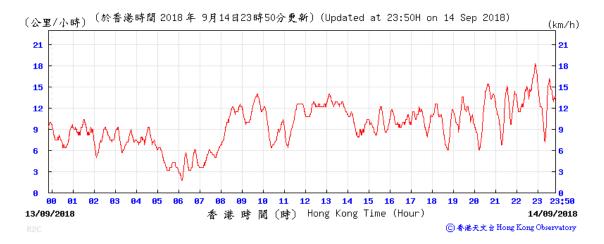




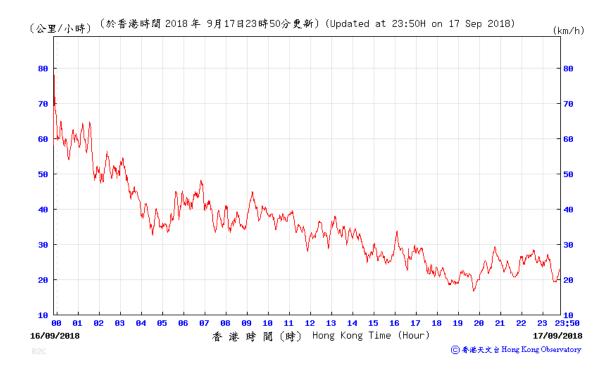


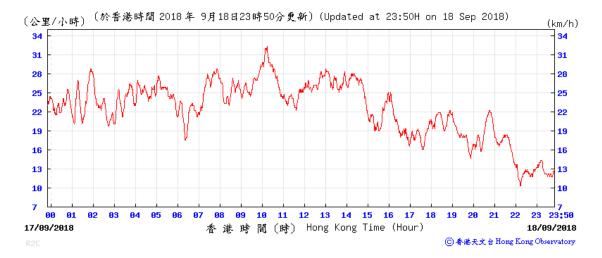




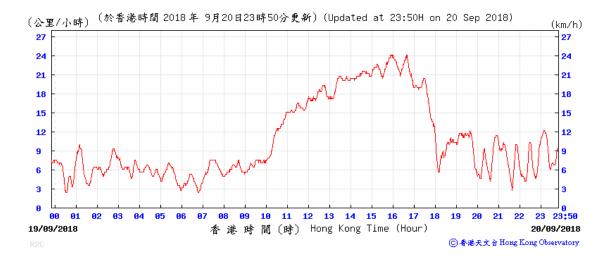


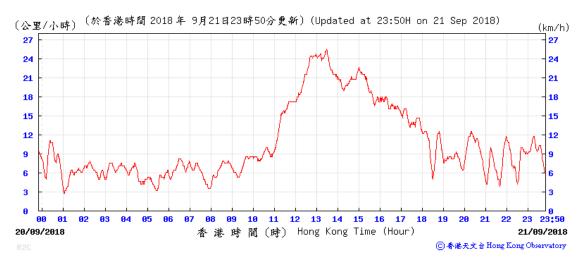


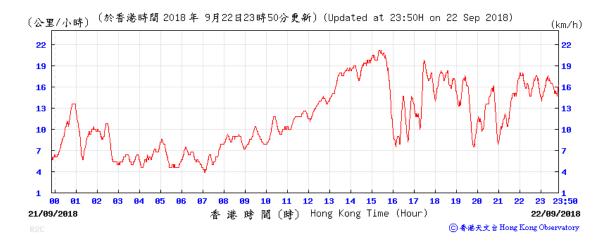




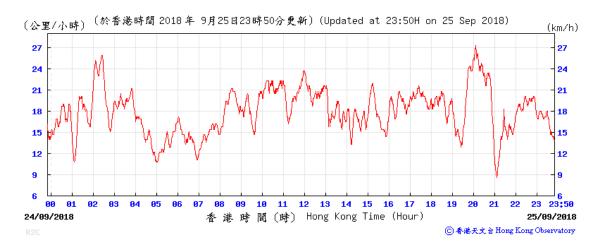


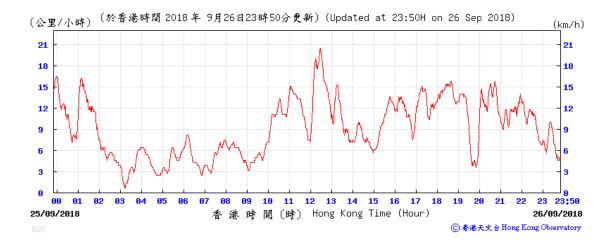


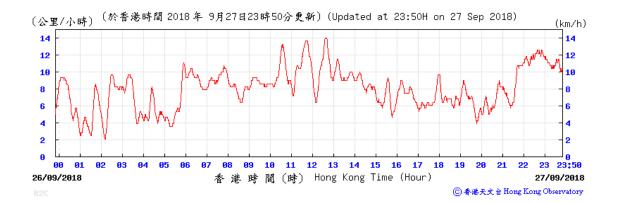


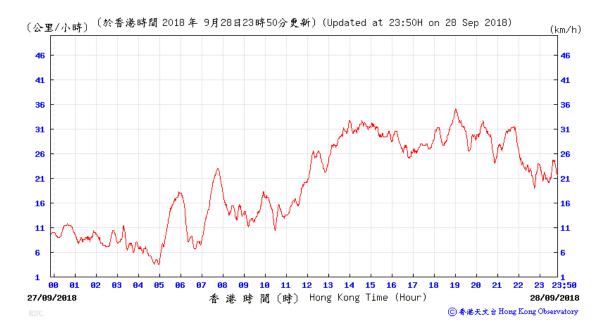


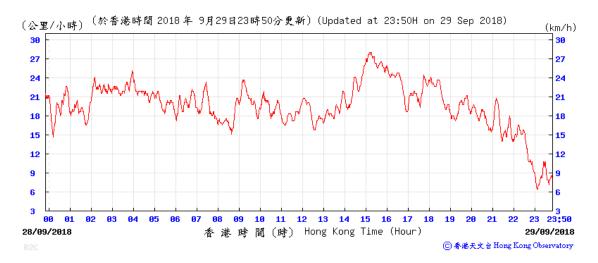




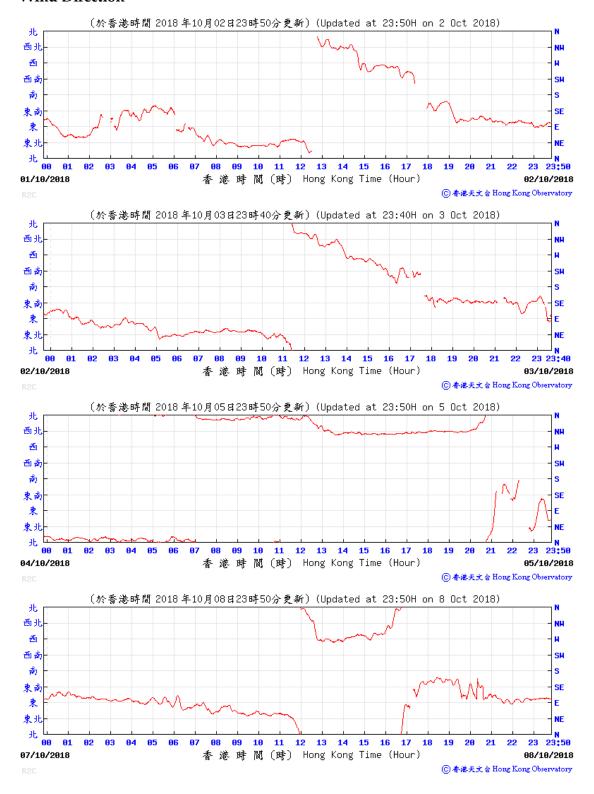


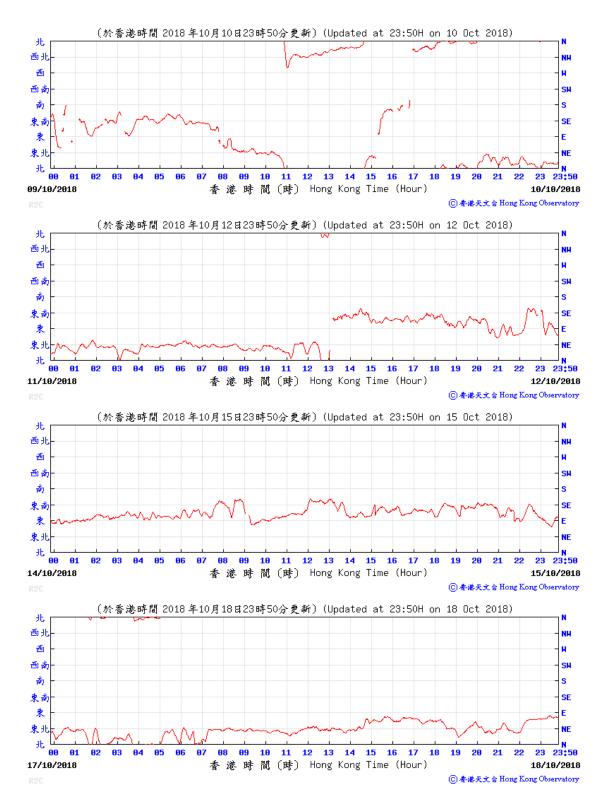


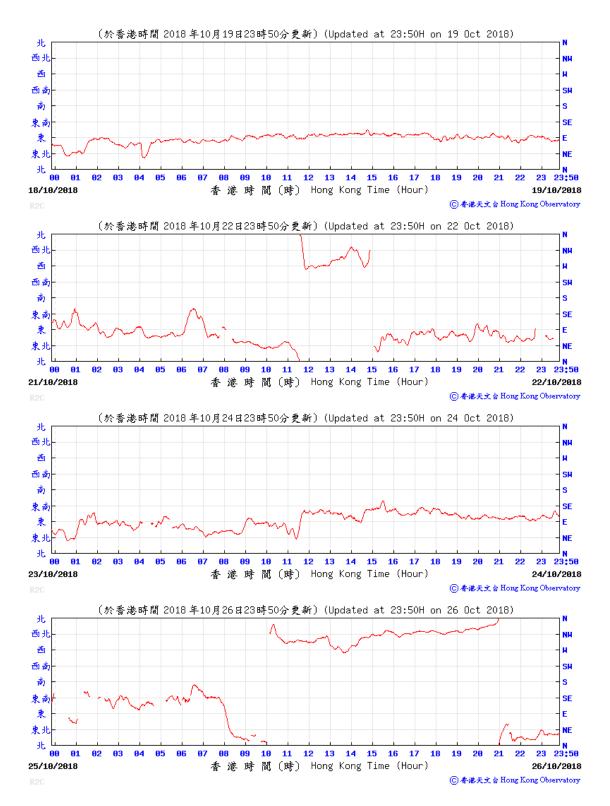


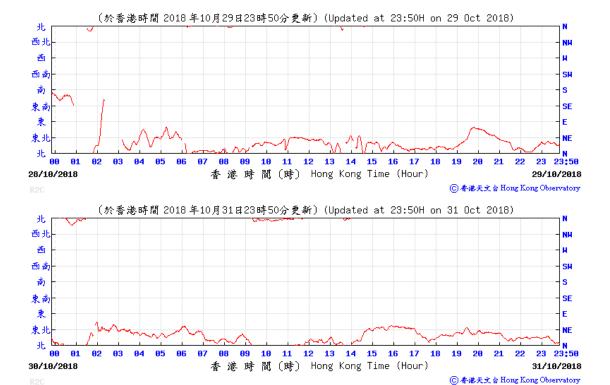


Wind Direction



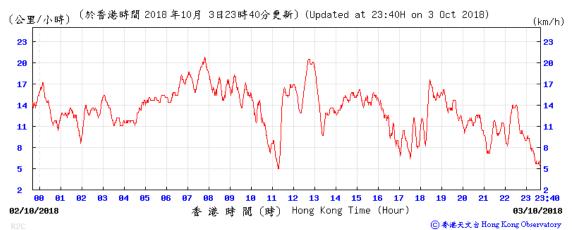






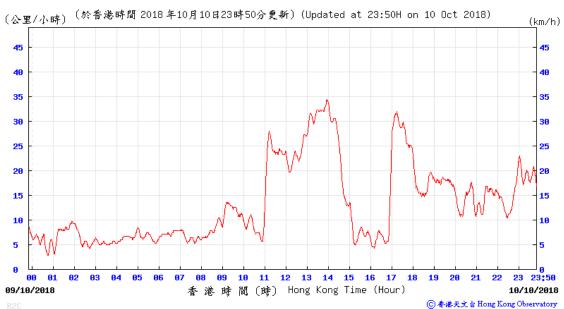
Wind Speed



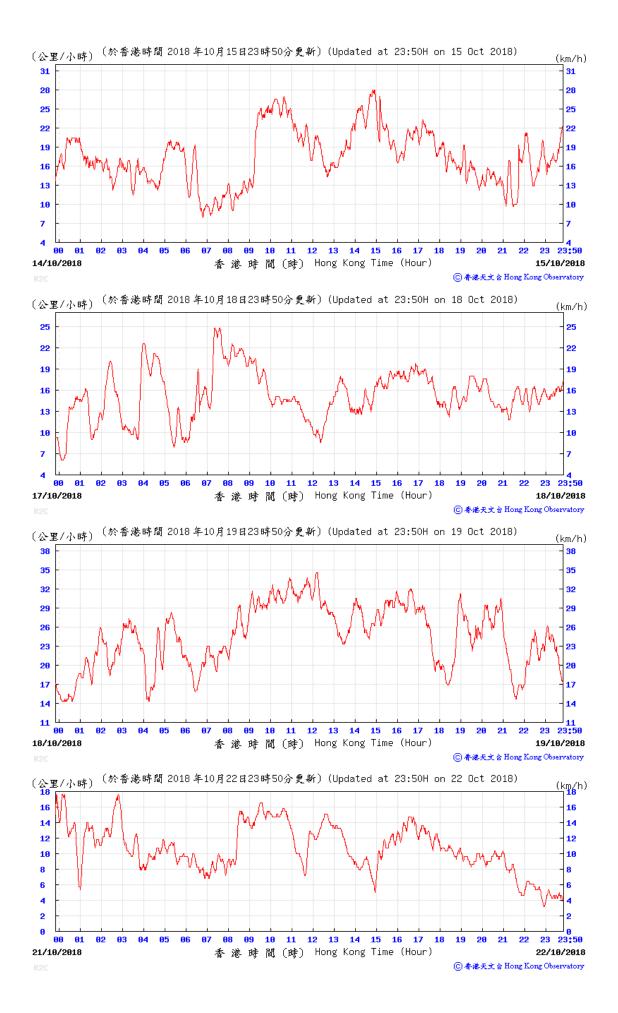


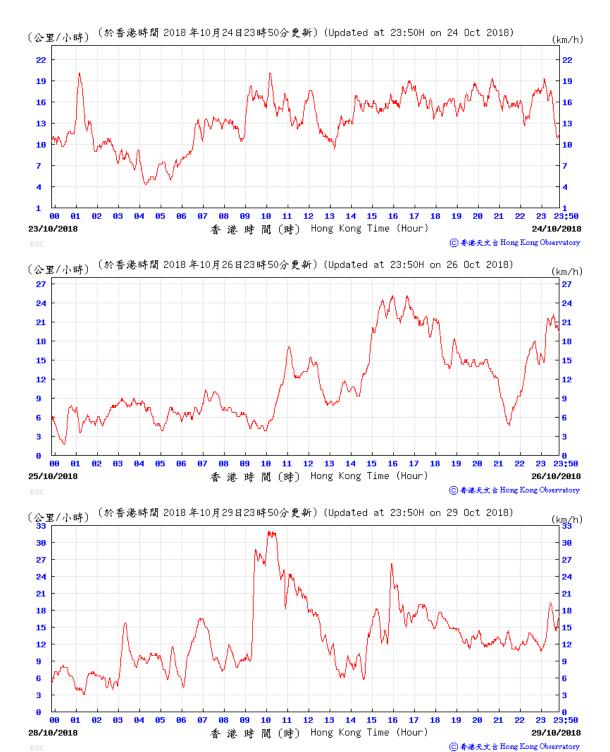


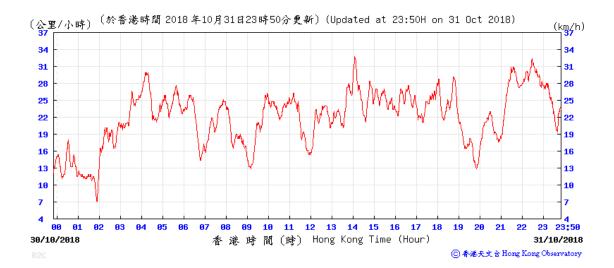




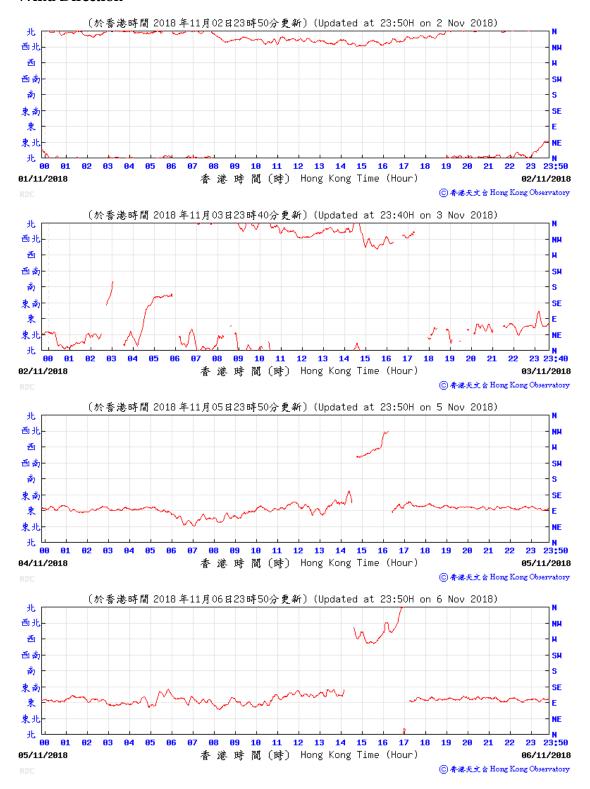


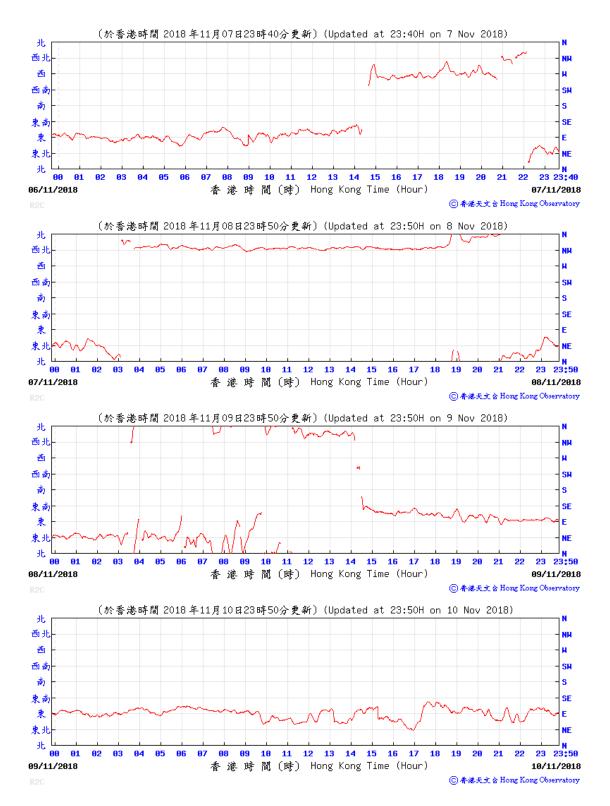


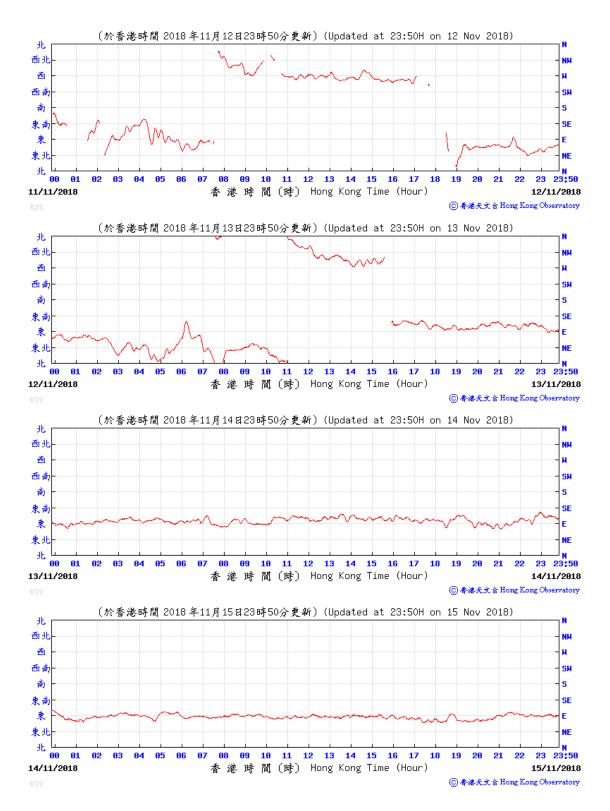


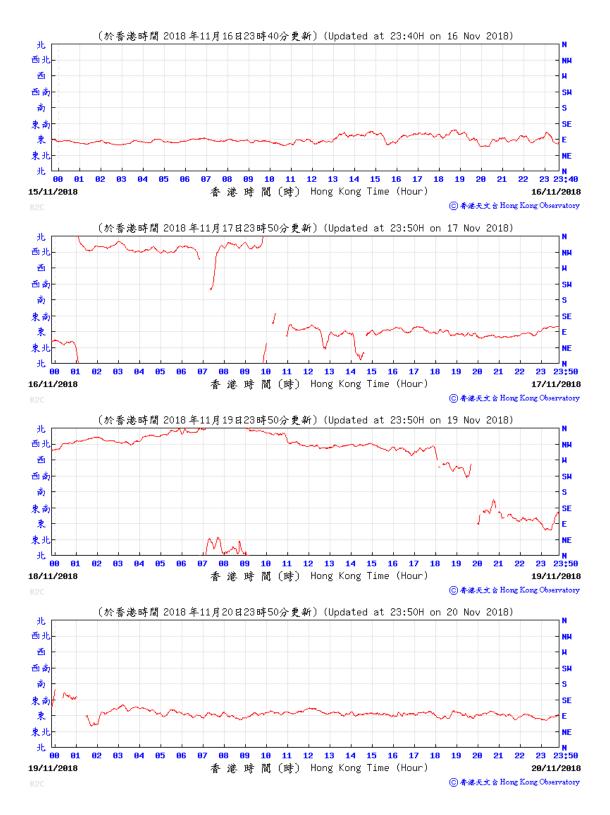


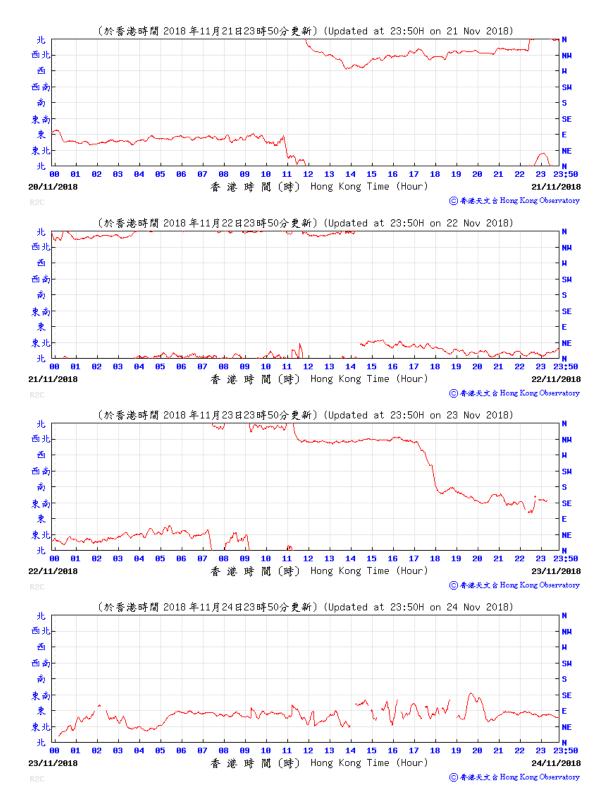
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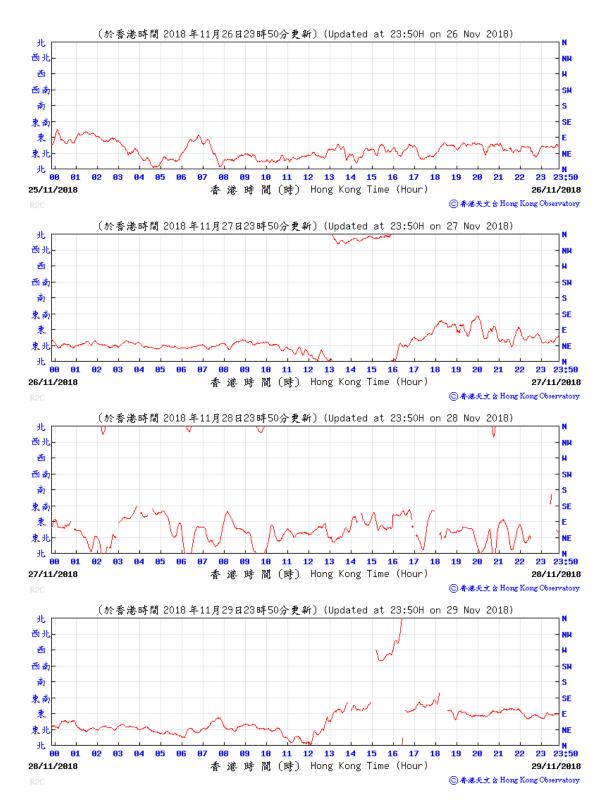


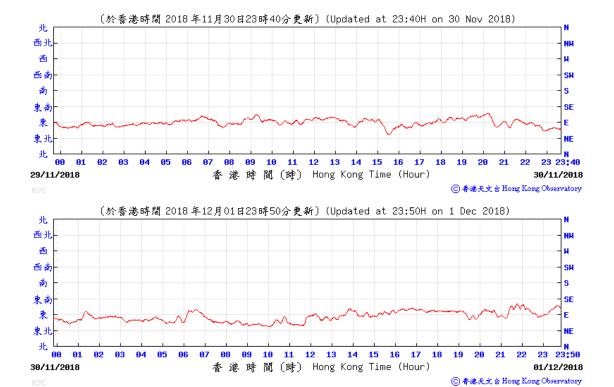






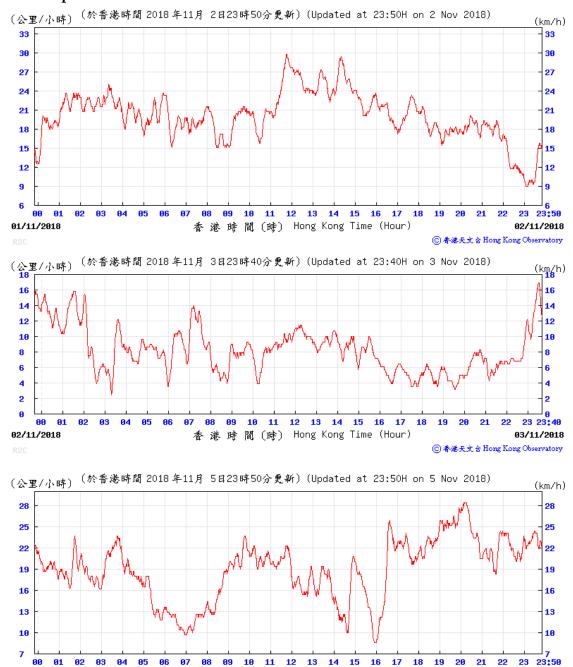






Wind Speed

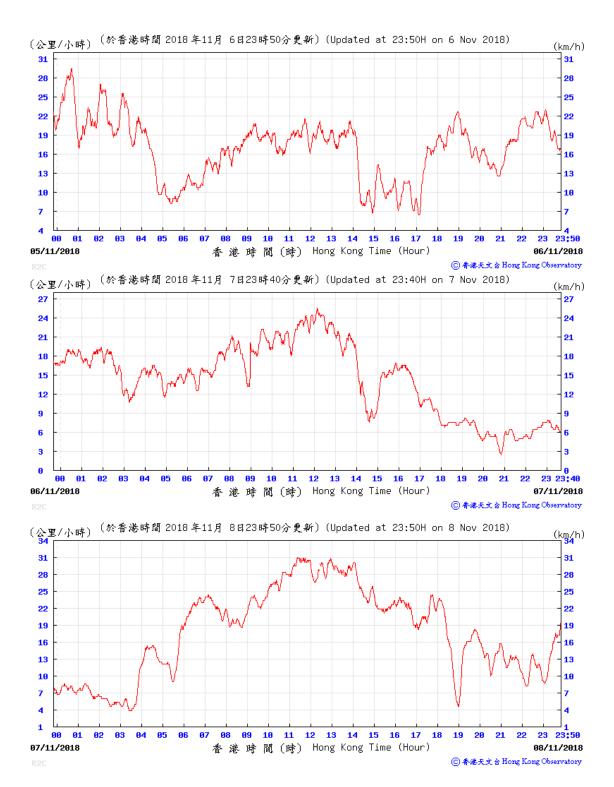
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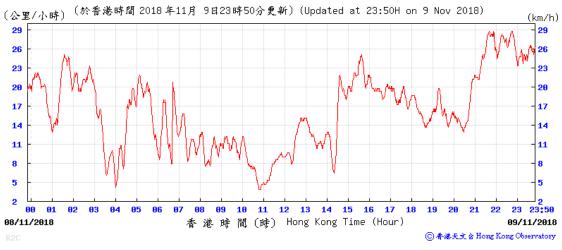


香港時間(時) Hong Kong Time (Hour)

05/11/2018

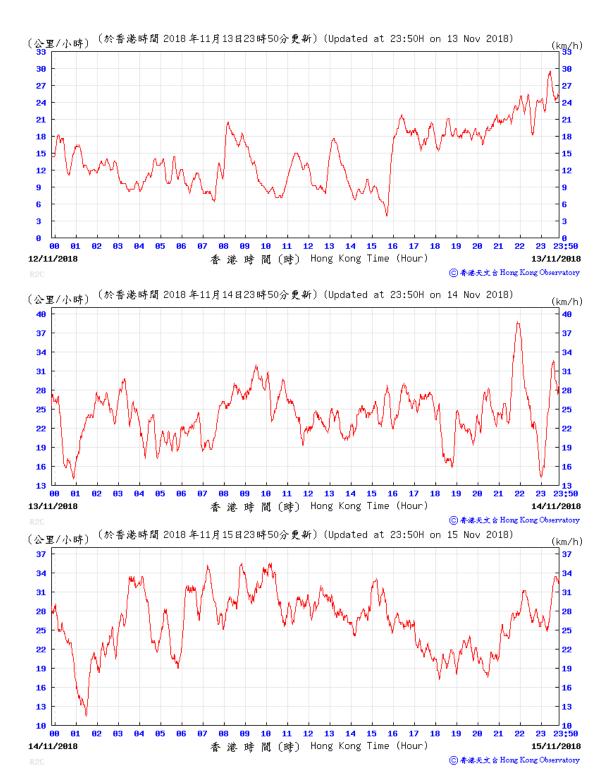
⑥ 香港天文 含 Hong Kong Observatory

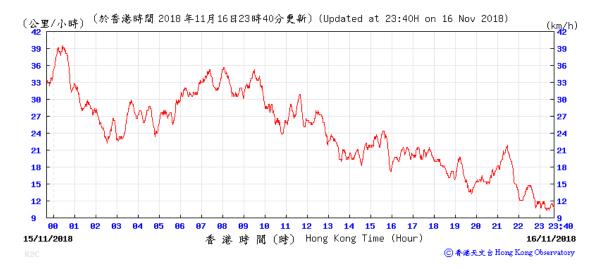


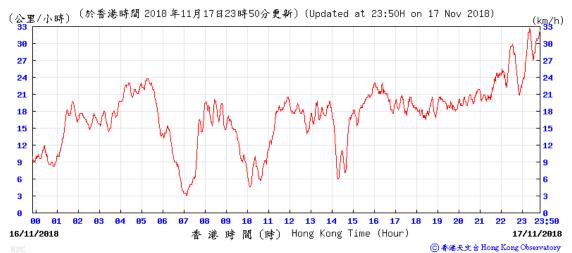






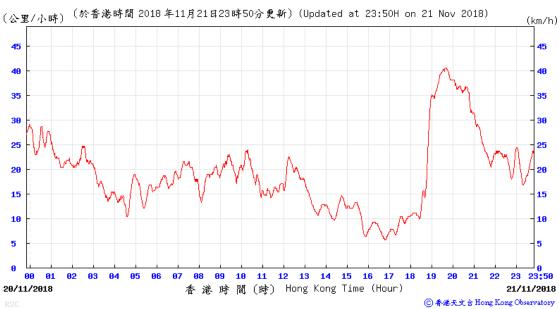


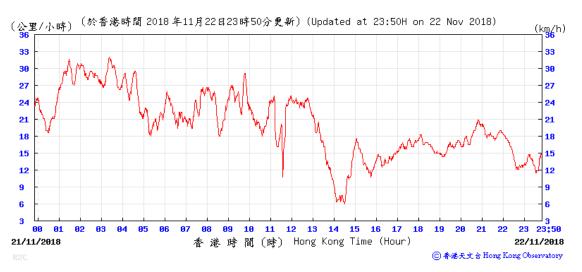


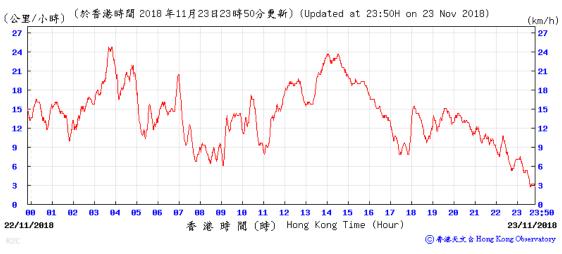


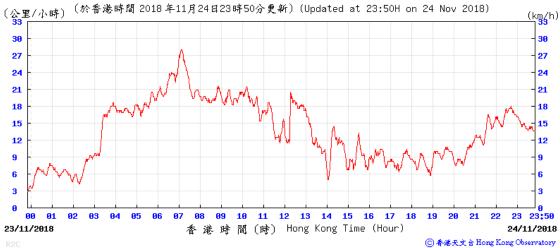


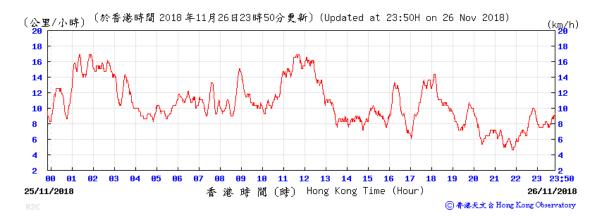


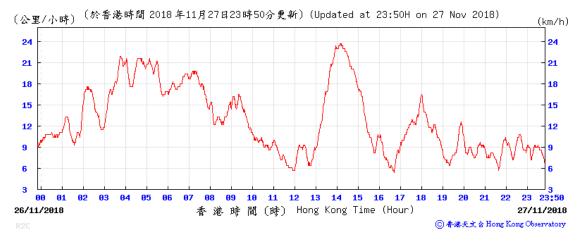


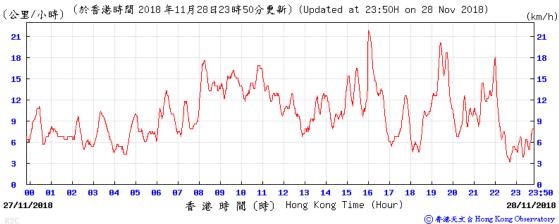


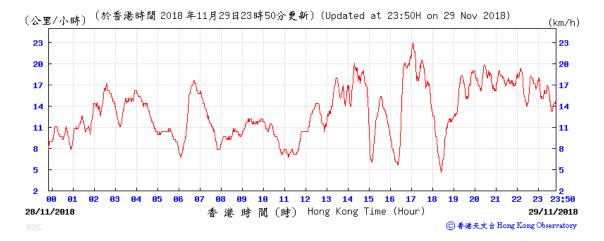


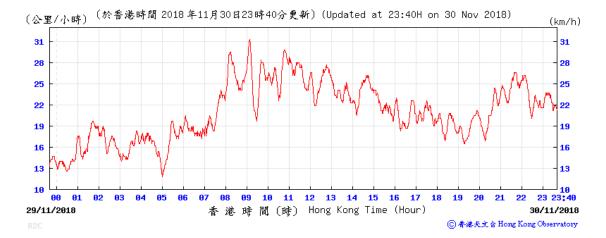


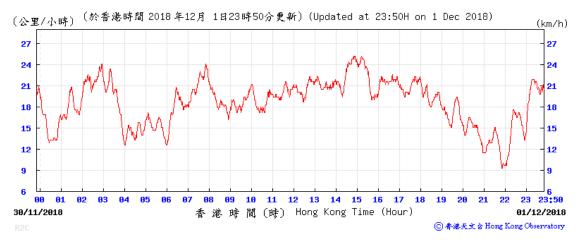












Annex H3

Laboratory Analysis Result



ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre

1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong <u>T</u>+852 2610 1044 <u>F</u>+852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1853489

CONTACT:

Venture

PROJECT:

Mr Edwin Wong

ADDRESS:

No. 5, Sham Fung Road, Siu

SUB-BATCH:

Hong Kong

Ho Wan, North Lantau Island, NT, Hong Kong LABORATORY: DATE RECEIVED:

DATE OF ISSUE:

5 October 2018 11 October 2018

Odour Monitoring for the

Organic Resources Recovery

Centre Phase 1 in Siu Ho

SAMPLE TYPE:

Air

SITE:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

NO OF SAMPLES:

PO:

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 5th October, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manager - Hong Kong

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Page 1 of 7



Work Order: HK1853489

METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A Nalophan[™] sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

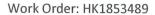
This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition $1 OU_E/m^3$. The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid $^{\text{TM}}$ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.





RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)	
HK1853489-001	CAPC Unit	5-Oct-18	11:05 - 11:10	11	1204	Smell of Garbage	1295	93,550,000	
HK1853489-002	CAPC Unit	5-Oct-18	11:11 - 11:18	11	1087	Smell of Garbage	1295	84,460,000	
HK1853489-003	Field Blank	5-Oct-18		11	<11				

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff on site.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.



Work Order: HK1853489

APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source ¹	Duration of Odour	On-Site Ob Odour Nature	Possible Source	Weather Condition
CAPC Unit	5-10-18	11:05 -11:11	28.0	41.1	1010.9	1.3	306	NA	NA	No odour was smelled.	NA	Sunny

Note:

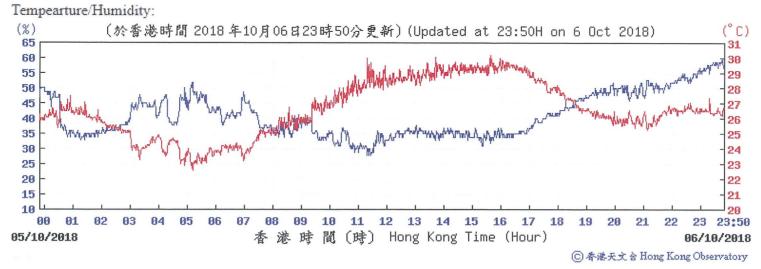
1. It was assumed that the exhaust of the CAPC Unit was from the odour source.

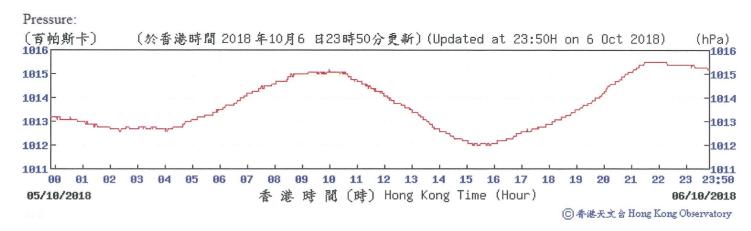




APPENDIX 2

A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION

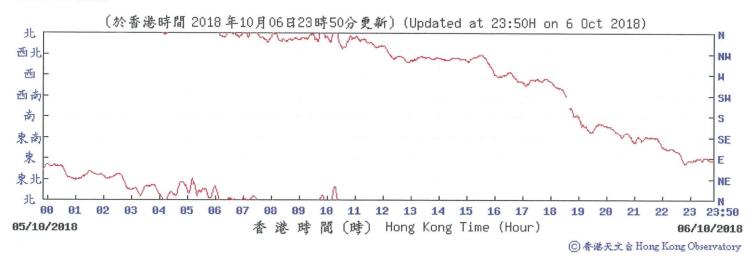




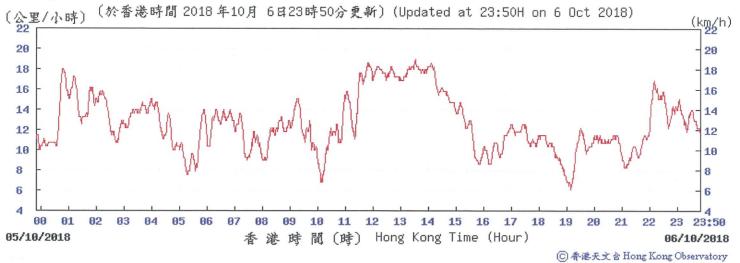


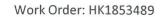


Wind Direction:



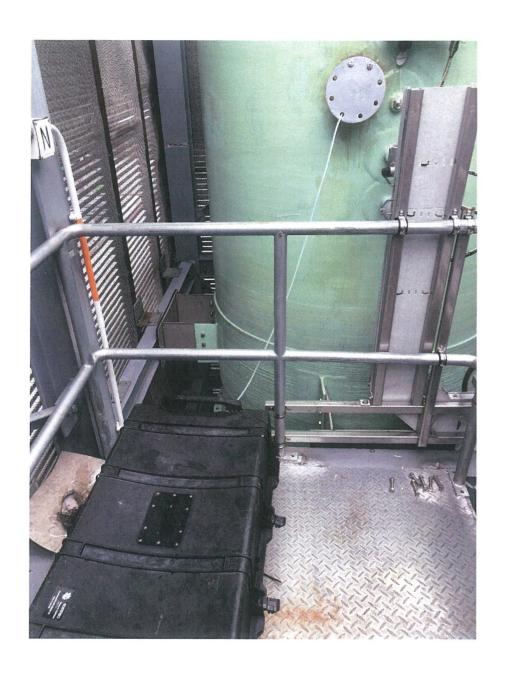








A3. PHOTO OF THE SAMPLING LOCATION





ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong <u>T</u> +852 2610 1044 <u>F</u> +852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1854516

CONTACT:

Mr Edwin Wong

Venture

ADDRESS:

No. 5, Sham Fung Road, Siu

Ho Wan, North Lantau

Island, NT, Hong Kong

LABORATORY: SUB-BATCH:

Hong Kong

Air

DATE RECEIVED:

12 October 2018

DATE OF ISSUE: SAMPLE TYPE:

18 October 2018

PROJECT:

Odour Monitoring for the

Organic Resources Recovery Centre Phase 1 in Siu Ho

SITE:

PO:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

NO OF SAMPLES:

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 12th October, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Hong Kong

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A Nalophan[™] sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition $1 OU_E/m^3$. The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid™ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.



RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)
HK1854516-001	CAPC Unit	12-Oct-18	15:08 - 15:12	11	2107	Smell of Garbage	1820	230,000,000
HK1854516-002	CAPC Unit	12-Oct-18	15:12 - 15:16	11	2463	Smell of Garbage	1820	269,000,000
HK1854516-003	Field Blank	12-Oct-18		11	<11			

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.



APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source ¹	Duration of Odour	On-Site Ob Odour Nature	servation Possible Source	Weather Condition
CAPC Unit	12-10-18	15:08 -15:16	25.2	62.1	1012.7	2.0	109	NA	NA	No odour was smelled.	NA	Sunny

Note:

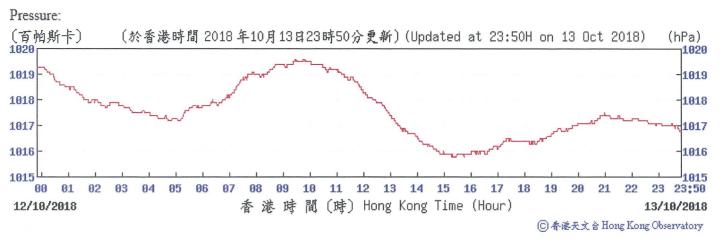
1. It was assumed that the exhaust of the CAPC Unit was from the odour source.





A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION





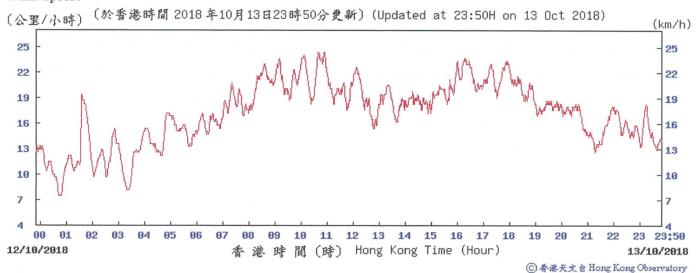




Wind Direction:



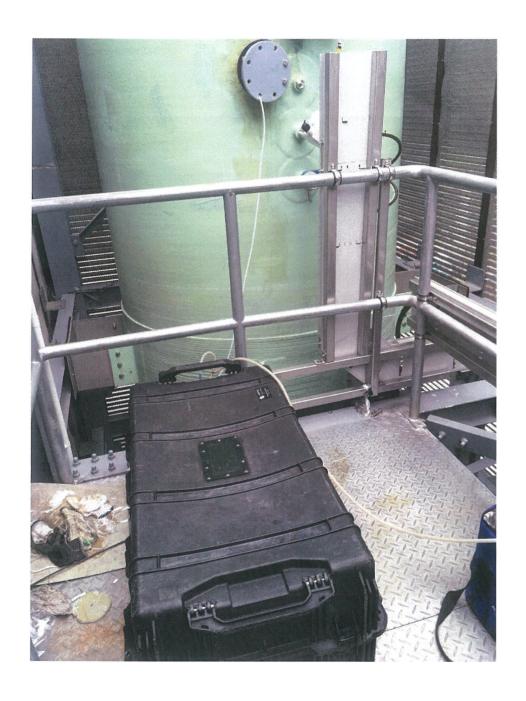






APPENDIX 3

A3. PHOTO OF THE SAMPLING LOCATION





ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street

Kwai Chung, N.T., Hong Kong <u>T</u> +852 2610 1044 <u>F</u> +852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT: Oscar Bioenergy Joint WORK ORDER: HK1855605

Venture

CONTACT: Mr Edwin Wong

ADDRESS: No. 5, Sham Fung Road, Siu LABORATORY: Hong Kong

Ho Wan, North Lantau SUB-BATCH: 0

Island, NT, Hong Kong

DATE RECEIVED: 19 October 2018

DATE OF ISSUE: 29 October 2018

NO OF SAMPLES:

3

PROJECT: Odour Monitoring for the DATE OF ISSUE: 29

SAMPLE TYPE: Air

Organic Resources Recovery

Centre Phase 1 in Siu Ho

Wan

SITE: Organic Resources Recovery

Centre Phase 1 (ORRC1)

PO: ---

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 19th October, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung General Manager

neral Manager Hong Kon

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A Nalophan[™] sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

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Olfactometry Testing was performed by using the Scentroid™ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.





RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU₅/hr)
HK1855605-001	CAPC Unit	19-Oct-18	11:01 - 11:05	11	2273	Smell of Garbage	1250	170,000,000
HK1855605-002	CAPC Unit	19-Oct-18	11:06 - 11:09	11	2273	Smell of Garbage	1250	170,000,000
HK1855605-003	Field Blank	19-Oct-18		11	<11			

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.



APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source	Duration of Odour	On-Site Ob Odour Nature	Possible Source	Weather Condition
CAPC Unit	19-10-18	11:01 -11:09	25.7	67.5	1013.5	1.5	113	NA	NA	No odour was smelled.	NA	Sunny

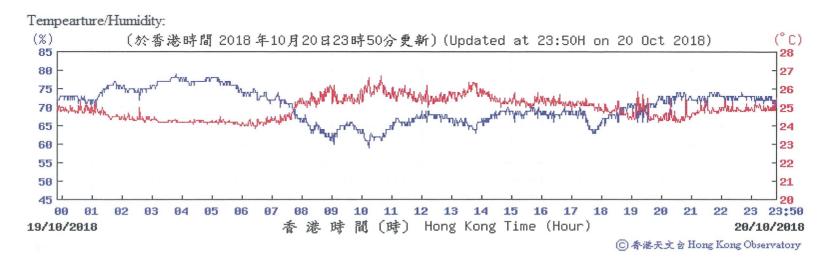
Note:

1. It was assumed that the exhaust of the CAPC Unit was from the odour source.





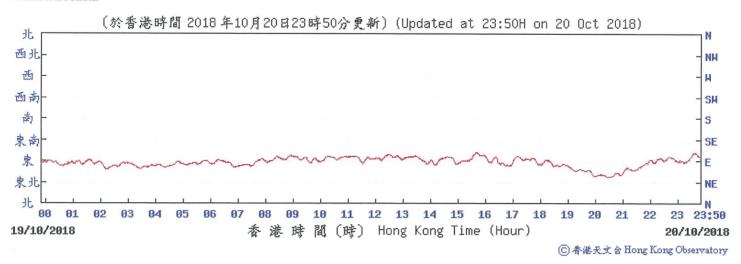
A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION



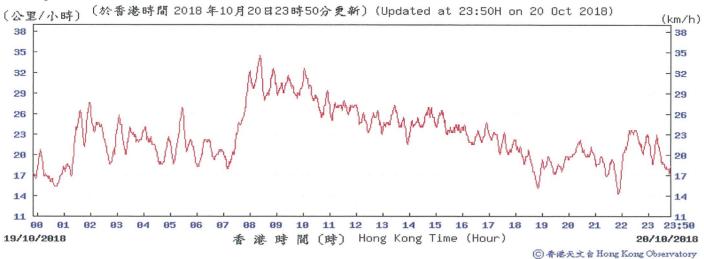


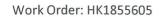


Wind Direction:



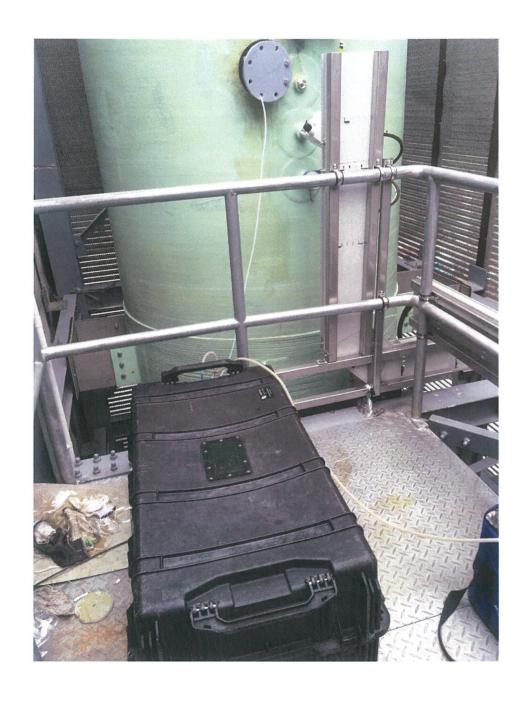








A3. PHOTO OF THE SAMPLING LOCATION





ALS Technichem (HK) Pty Ltd

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong I +852 2610 1044 F+852 2610 2021

	CERTIFICATE OF	ANALYSIS	
CLIENT:	Oscar Bioenergy Joint	WORK ORDER:	HK1856261
CONTACT:	Venture Mr Edwin Wong		
ADDRESS:	No. 5, Sham Fung Road, Siu Ho Wan, North Lantau Island, NT, Hong Kong	LABORATORY: SUB-BATCH: DATE RECEIVED: DATE OF ISSUE:	Hong Kong 0 26 October 2018 29 October 2018
PROJECT:	Odour Monitoring for the Organic Resources Recovery Centre Phase 1 in Siu Ho Wan	SAMPLE TYPE:	Air
SITE:	Organic Resources Recovery Centre Phase 1 (ORRC1)	NO OF SAMPLES:	3
PO:			

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 26th October, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manager - Hong Kong

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A Nalophan[™] sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition $1 OU_E/m^3$. The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid™ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.



RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)
HK1856261-001	CAPC Unit	26-Oct-18	10:35 - 10:40	11	1817	Smell of Garbage	1760	192,000,000
HK1856261-002	CAPC Unit	26-Oct-18	10:40 - 10:44	11	1668	Smell of Garbage	1760	176,000,000
HK1856261-003	Field Blank	26-Oct-18		11	<11			

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.



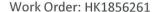


A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source ¹	Duration of Odour	On-Site Ob Odour Nature	Possible Source	Weather Condition
CAPC Unit	26-10-18	10:35 -10:44	29.3	67.3	1016.5	0.9	293	NA	NA	No odour was smelled.	NA	Sunny

Note:

^{1.} It was assumed that the exhaust of the CAPC Unit was from the odour source.

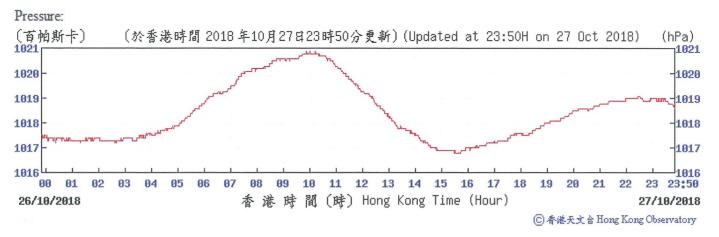


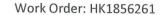


APPENDIX 2

A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION

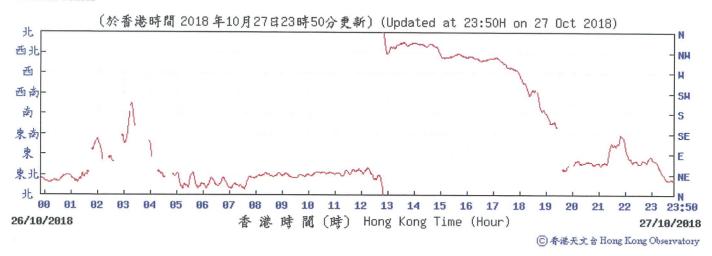




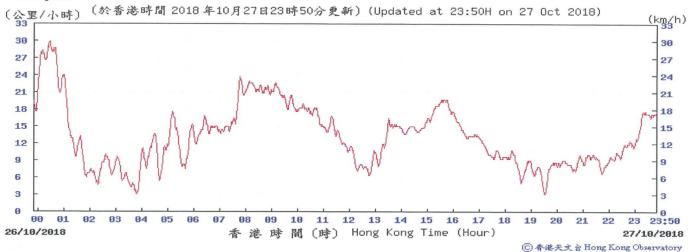




Wind Direction:



Wind Speed:





APPENDIX 3

A3. PHOTO OF THE SAMPLING LOCATION





ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street

Kwai Chung, N.T., Hong Kong T+852 2610 1044 F+852 2610 2021

HK1857944

Hong Kong

Air

1 November 2018

9 November 2018

CERTIFICATE OF ANALYSIS

WORK ORDER:

LABORATORY:

DATE RECEIVED:

NO OF SAMPLES:

DATE OF ISSUE:

SAMPLE TYPE:

SUB-BATCH:

CLIENT: Oscar Bioenergy Joint

Venture

CONTACT: Mr Edwin Wong

ADDRESS: No. 5, Sham Fung Road, Siu

Ho Wan, North Lantau

Island, NT, Hong Kong

Odour Monitoring for the

Organic Resources Recovery

Centre Phase 1 in Siu Ho

Wan

SITE: Organic Resources Recovery

Centre Phase 1 (ORRC1)

PO: --

PROJECT:

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 1st November, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manager Along Kong

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A Nalophan[™] sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition $1 OU_E/m^3$. The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid™ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.





RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)
HK1857944-001	CAPC Unit	1-Nov-18	11:08 - 11:12	11	1283	Smell of Garbage	1746	134,000,000
HK1857944-002	CAPC Unit	1-Nov-18	11:13 - 11:16	11	1016	Smell of Garbage	1746	106,000,000
HK1857944-003	Field Blank	1-Nov-18		11	<11			

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.



APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source ¹	Duration of Odour	On-Site Ob Odour Nature	servation Possible Source	Weather Condition
CAPC Unit	1-11-18	11:08 -11:16	26.4	41.1	1011.1	2.8	313	NA	NA	No odour was smelled.	NA	Sunny

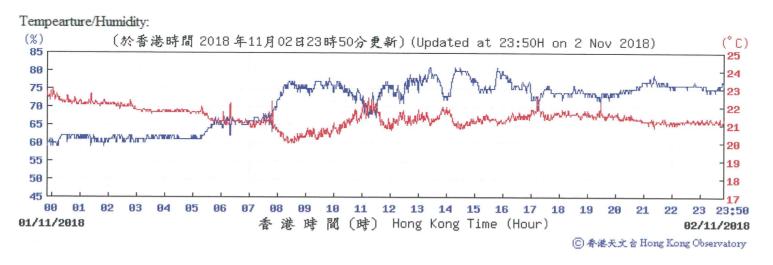
Note:

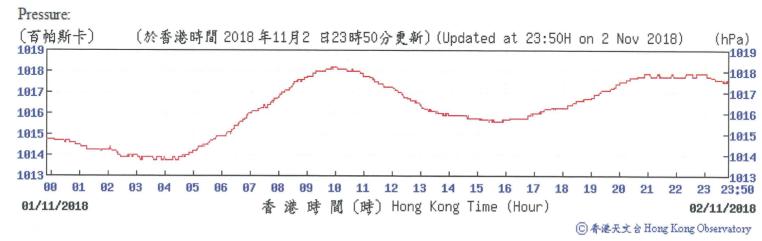
1. It was assumed that the exhaust of the CAPC Unit was from the odour source.





A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION

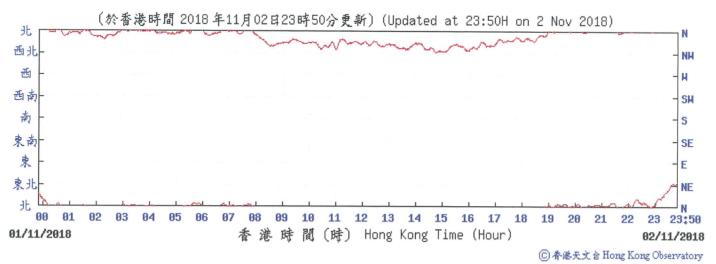




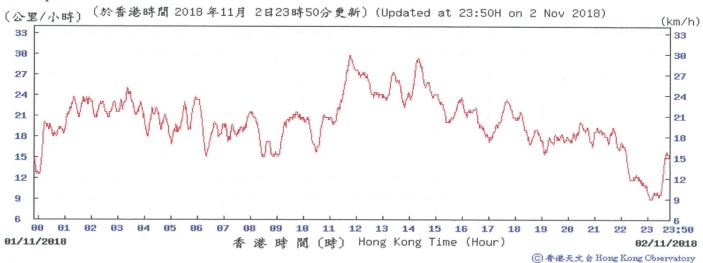




Wind Direction:



Wind Speed:





A3. PHOTO OF THE SAMPLING LOCATION





ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong T +852 2610 1044 F +852 2610 2021

CLIENT: Oscar Bioenergy Joint WORK ORDER: HK1857945 Venture CONTACT: Mr Edwin Wong ADDRESS: No. 5, Sham Fung Road, Siu LABORATORY: Hong Kong Ho Wan, North Lantau SUB-BATCH: Island, NT, Hong Kong DATE RECEIVED: 5 November 2018 DATE OF ISSUE: 9 November 2018 PROJECT: Odour Monitoring for the SAMPLE TYPE: Air

NO OF SAMPLES:

5

CERTIFICATE OF ANALYSIS

Organic Resources Recovery

Centre Phase 1 in Siu Ho

SITE: Organic Resources Recovery

Centre Phase 1 (ORRC1)

PO:

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 5th November, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Richard Fung General Manager Hong Kong

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A NalophanTM sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition $1 OU_E/m^3$. The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid $^{\text{TM}}$ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.





RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)
HK1857945-001	CAPC Unit	5-Nov-18	11:11 - 11:14	11	1016	Smell of Garbage	1793.8	109,000,000
HK1857945-002	CAPC Unit	5-Nov-18	11:15 - 11:17	11	1016	Smell of Garbage	1793.8	109,000,000
HK1857945-003	CAPC Unit	5-Nov-18	11:31 - 11:35	11	1016	Smell of Garbage	2027.6	124,000,000
HK1857945-004	CAPC Unit	5-Nov-18	11:36 - 11:40	11	933	Smell of Garbage	2027.6	114,000,000
HK1857945-005	Field Blank	5-Nov-18		11	<11			

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.





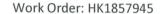
APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source ¹	Duration of Odour	On-Site Ob Odour Nature	Possible Source	Weather Condition
CAPC Unit	5-11-18	11:11 - 11:40	25.5	67.3	1015.5	2.5	330	NA	NA	No odour was smelled.	NA	Cloudy

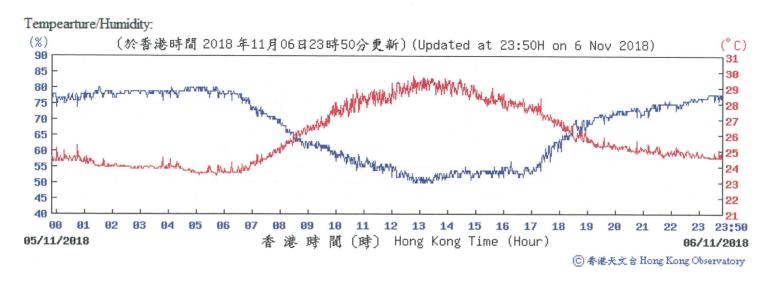
Note:

1. It was assumed that the exhaust of the CAPC Unit was from the odour source.





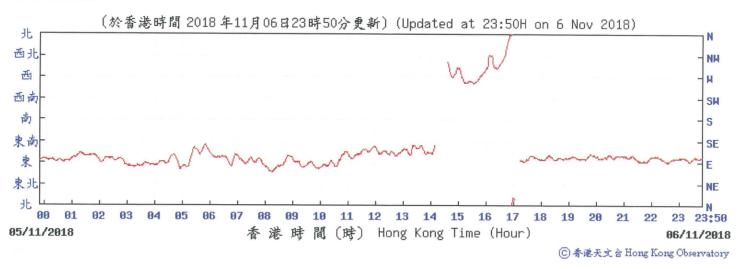
A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION

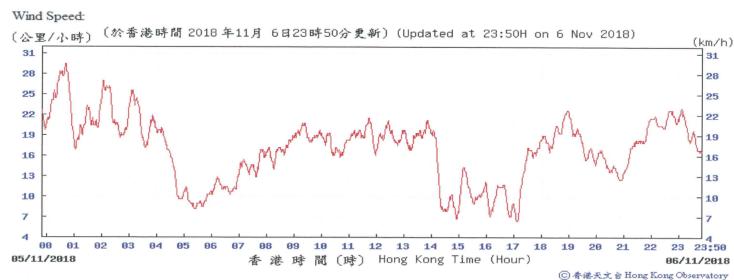






Wind Direction:







APPENDIX 3

A3. PHOTO OF THE SAMPLING LOCATION





ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong <u>T</u> +852 2610 1044 <u>F</u> +852 2610 2021

CLIENT: Oscar Bioenergy Joint WORK ORDER: HK1861624 Venture CONTACT: Mr Edwin Wong ADDRESS: No. 5, Sham Fung Road, Siu LABORATORY: Hong Kong Ho Wan, North Lantau SUB-BATCH: DATE RECEIVED: Island, NT, Hong Kong 23 November 2018 DATE OF ISSUE: 26 November 2018 PROJECT: Odour Monitoring for the SAMPLE TYPE: Air

NO OF SAMPLES:

3

CERTIFICATE OF ANALYSIS

Organic Resources Recovery Centre Phase 1 in Siu Ho

SITE: Organic Resources Recovery

Centre Phase 1 (ORRC1)

PO:

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 23rd November, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Richard Fung General Manager -Hong Kong

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A NalophanTM sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling location was shown in Appendix A3.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition $1 OU_E/m^3$. The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid™ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.





RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)
HK1861624-001	CAPC Unit	23-Nov-18	11:08 - 11:13	11	134	Smell of garbage and bleach	1075.5	8,650,000
HK1861624-002	CAPC Unit	23-Nov-18	11:14 - 11:19	11	144	Smell of garbage and bleach	1075.5	9,290,000
HK1861624-003	Field Blank	23-Nov-18		11	<11			

Remark:

- 1. LOR denotes limit of reporting.
- 2. The collected sample volume of the gas bag is sufficient for olfactometry analysis.
- 3. Field Blank containing pure nitrogen gas was collected and filled by ALS staff.
- 4. The volumetric flow rate value for calculation of the emission rate was provided by the client.



APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

Location	Date	Time	Ambient Temperature (°C)	Relative Humidity (%)	Ambient Pressure (hPa)	Wind Speed (m/s)	Wind Direction (Degree)	Direction from Source ¹	Duration of Odour	On-Site Ob Odour Nature	Possible Source	Weather Condition
CAPC Unit	23-11-18	11:08 - 11:19	20.9	63.8	1021.1	1.0	316	NA	NA	No odour was smelled.	NA	Sunny

Note:

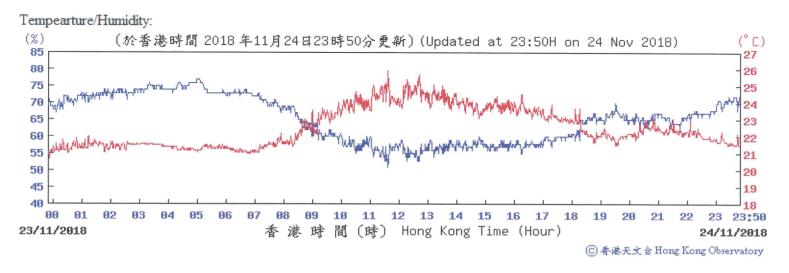
1. It was assumed that the exhaust of the CAPC Unit was from the odour source.





APPENDIX 2

A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM THE HONG KONG AIRPORT OBSERVATORY STATION

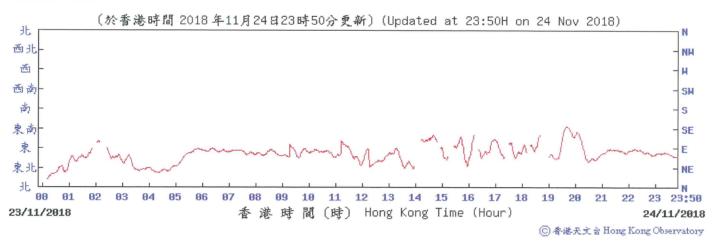




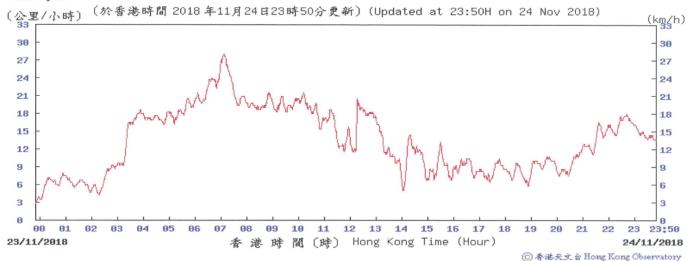




Wind Direction:









APPENDIX 3

A3. PHOTO OF THE SAMPLING LOCATION



Annex H4

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.

Event and Action Plan for Odour Monitoring

Project Proponent ⁽¹⁾
arry out investigation to entify the source/reason of eedance. Investigation ould be completed within 2 eeks; ctify any unacceptable practice; plement more tigation measures if eessary; orm DSD or the operator of e Siu Ho Wan Sewage eatment Works (SHWSTW) if eedance is considered to be used by the operation of the EWSTW. orm North Lantau Refuse ensfer Station (NLTS) erator if exceedance is esidered to be caused by the
e contraction of the contraction

	AC	TION
EVENT	Person-in-charge of	Project Proponent ⁽¹⁾
	Odour	
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.

	AC	ΓΙΟΝ
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾
LIMIT LEVEL		
Exceedance	1. Identify	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

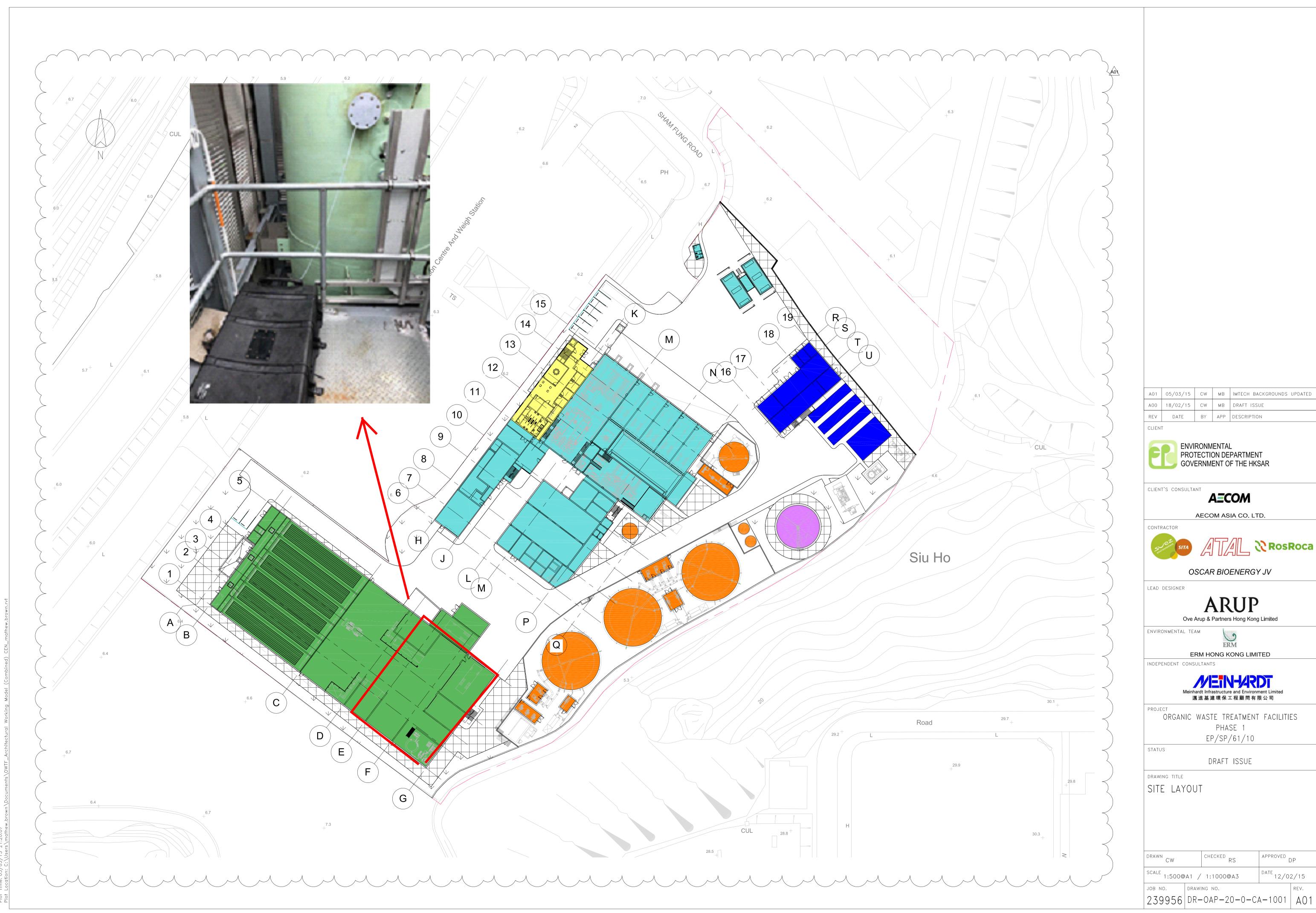
Investigation Report of Odour Sampling Exceedance

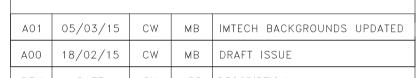
Date	31 August 2018					
Time	11:04-11:07 am					
Monitoring Location	Centralized Air Pollution Control (CAPC) Unit ((Detailed					
_	location and photos shown on the marked drawing DR-OAP-					
	20-0-CA-1001 attached as Appendix A)					
Weather	Fine					
Parameter	Odour					
Exceedance Description Action Takon / Action to bo	 On 31 August 2018, air samples were 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. According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour level is more than 220 OU/Nm3. the odour level of the odour samples collected from the CAPC unit have exceeded the odour limits stated in Table 2.2 of the EM&A Manual. (The detail sampling results are shown in Appendix B.) Odour emitting activities, including wastewater treatment plant and ammonia stripping plant (ASP) were operating on 31 August 2018. No organic waste were being processed the time the odour samples were being collected, due to pre-treatment line was stopped and only operated at mid night. The CAPC system was operating during the odour sampling. The contractor reported that the active carbon (AC) filter and the venturi scrubber in Building 2 were operating. The wet & chemical scrubbers were not operating at the time of the sampling as it is still under testing and commissioning. The exceedance could be due to saturation of the AC filter as an increase of VOCs concentration was observed. 					
Action Taken / Action to be Taken	of September 2018. (Photograph record attached as Appendix					
Remedial Works and	C.) To avoid saturation of the filter media, it is recommended that					
Follow-up Actions	To avoid saturation of the filter media, it is recommended that the contractor should test the medium regularly or indicator medium should be used to provide an indication of the condition of the media.					

Prepared by: Leah Pak, ET Représentatives
Date 22-November-2018

Appendix A

Monitoring Location





ORGANIC WASTE TREATMENT FACILITIES

DRAWN CW	CHECKED RS	APPROVED DP		
SCALE 1:500@A1 /	1:1000@A3	DATE 12/02/15		

Appendix B

Odour Sampling Report



ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street

Kwai Chung, N.T., Hong Kong T+852 2610 1044 F+852 2610 2021

CERTIFICATE OF ANALYSIS

CLIENT: Oscar Bioenergy Joint

WORK ORDER:

HK1847224

Venture

CONTACT: Edwin Wong

ADDRESS: No. 5. Sham

No. 5, Sham Fung Road, Siu

LABORATORY: SUB-BATCH: Hong Kong

Ho Wan, North Lantau

SUB-BATCH:

0

Island, NT, Hong Kong

DATE RECEIVED:

31 August 2018

Odour Monitoring for the

DATE OF ISSUE:

18 September 2018

Organic Resources Recovery Centre Phase 1 in Siu Ho SAMPLE TYPE:

Air

Wan

SITE:

PROJECT:

Organic Resources Recovery

NO OF SAMPLES:

S: 3

PO:

Centre Phase 1 (ORRC1)

COMMENTS

Air sample(s) were collected by ALS Technichem (HK) staff on 31st August, 2018 at the Organic Resources Recovery Centre Phase 1 (ORRC1) in Siu Ho Wan for Odour Monitoring.

The sample(s) were analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manager - Hong Kong

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Page 1 of 7



METHOD STATEMENT

A. Odour Concentration

1. Odour Sampling

Odour gas sample was collected by passive sampling technique. A NalophanTM sampling bag was placed inside an air-tight sampler and then drawn to vacuum. Approximately 60 litre of gas sample was collected into the sampling bag for testing.

The odour sample was collected at the Organic Recovery Resources Centre Phase 1 (ORRC1) and sampling locations were shown in Appendix A1.

2. Olfactometry Testing

Odour concentration was determined by a Forced-choice Dynamic Olfactometer in accordance with the European Standard Method (EN13725).

This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors and the emission rate of odours emanating from point sources, area sources with outward flow and area sources without outward flow.

This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor.

The unit of measurement is the odour unit per cubic metre: OU_E/m^3 . The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is by definition 1 OU_E/m^3 . The odour concentration is then expressed in terms of multiples of the detection threshold. The range of measurement including pre-dilution prior to the olfactometry analysis is typically from $10^1 OU_E/m^3$ to $10^7 OU_E/m^3$.

Olfactometry Testing was performed by using the Scentroid™ SS600 Olfactometer. The testing was performed by at least five qualified panellists who have been selected through an n-butanol screening test.

All testing finished within 24 hours after sample receipt.



RESULT

1. Odour Concentration

Sample ID	Location	Sampling Date	Sampling Time	LOR (OU _E /Nm³)	Odour Concentration (OU _E /Nm³)	Characteristics of the odour detected of the gas sample	Volumetric Flow Rate (Nm³/min)	Emission rate (OU _E /hr)
HK1847224-001	CAPC Unit	31-Aug-18	11:04 - 11:07	11	444	Smell of Garbage	1261.1	33,600,000
HK1847224-002	CAPC Unit	31-Aug-18	11:08 - 11:11	11	476	Smell of Garbage	1261.1	36,020,000
HK1847224-003	Field Blank	31-Aug-18		11	<11	1		

Remark:

- 1. LOR denotes limit of reporting.

- The collected sample volume of the gas bag is sufficient for olfactometry analysis.
 Field Blank containing pure nitrogen gas was collected and filled by ALS staff on site.
 The volumetric flow rate used for calculation of the emission rate was provided by the client.



APPENDIX 1

A1. SITE CONDITIONS AND OBSERVATION

	_		Ambient	Relative	Ambient Pressure	Wind	Wind	Direction	of Od	On-Site Ob	servation	Weather
Location	Date	Time	Temperature (°C)	Humidity (%)	(hPa)	Speed (m/s)	Direction (Degree)	from Source ¹		Odour Nature	Possible Source	Condition
CAPC Unit	31-08-18	11:04 -11:11	29.0	81.0	1008.0	1.6	309	NA	NA	No odour was smelled.	NA	Cloudy

Note:

1. It was assumed that the exhaust of the CAPC Unit was from the odour source.

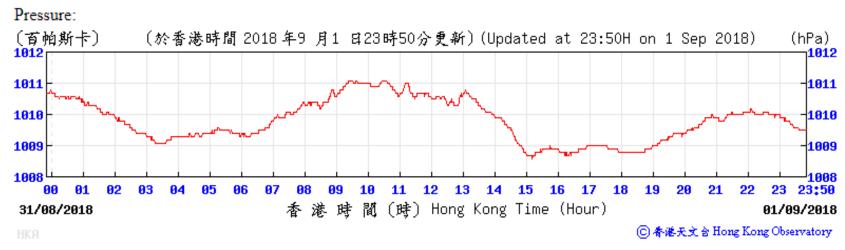




APPENDIX 2

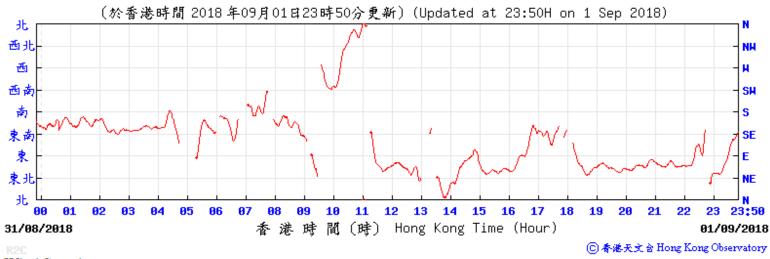
A2. EXTRACT OF METEOROLOGICAL OBSERVATIONS FROM HONG KONG AIRPORT OBSERVATORY STATION



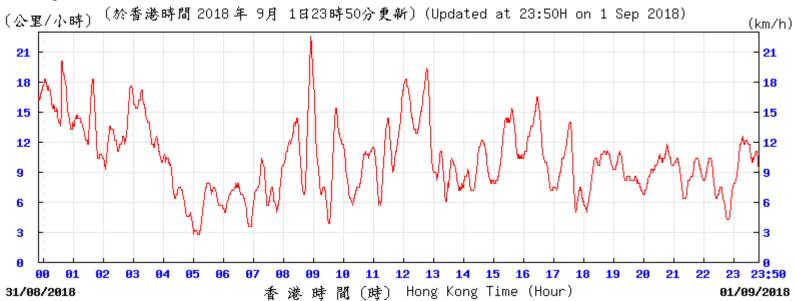




Wind Direction:









APPENDIX 3

A3. PHOTO OF THE SAMPLING LOCATION



Annex C

Photograph Records





The Activate Carbon (ACs) were standby for replacement on site in mid-September 2018.





The ACs were being replaced by on site workers.

<u>Investigation Report of Odour Sampling Exceedances</u>

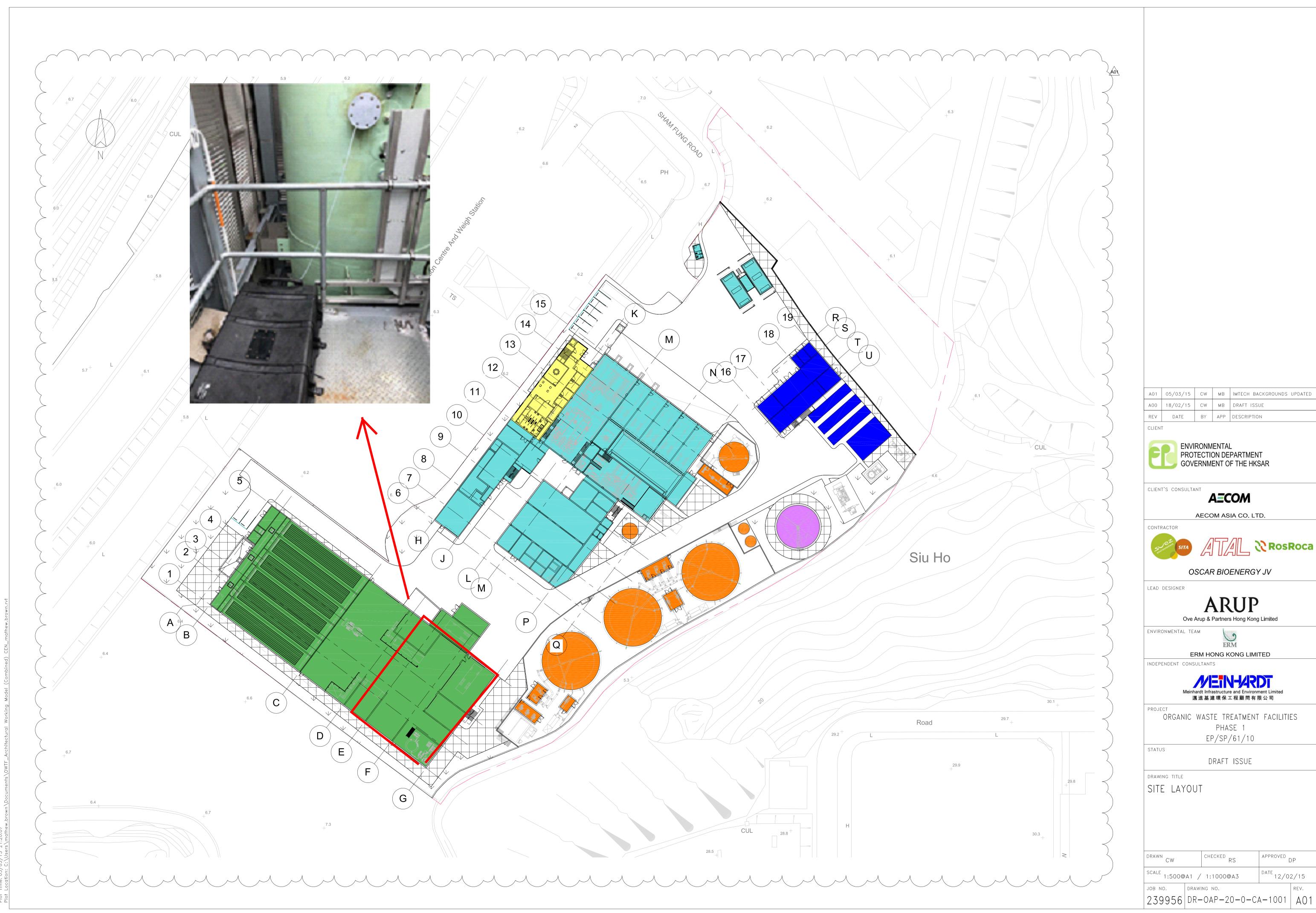
Date	5, 12, 19 and 26 October 2018; 1 and 5 November 2018
Time	Sampling times were shown in Appendix D .
Monitoring Location	Centralized Air Pollution Control (CAPC) Unit ((Detailed
	location and photos shown on the marked drawing DR-
TA7 (1	OAP-20-0-CA-1001 attached as Appendix C)
Weather	Fine
Parameter	Odour
Action Taken / Action to be	 On 5, 12, 19, 26 October 2018 and 1, 5 November 2018, air samples were 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. According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour level is more than 220 OU/Nm3. the odour level of the odour samples collected from the CAPC unit have exceeded the odour limits stated in Table 2.2 of the EM&A Manual. The detail sampling results are shown in Appendix D. The plant was operated normally. Odour emitting activities, including wastewater treatment plant, waste receiving pretreatment, AD process, sludge dewatering and composting were operating on those sampling days. The CAPC system was operating during the odour sampling. The plant received an average of 100 tonnes of SSOW daily in the reporting period. The contractor reported that CAPCS system was running with 1 of 2 line chemical scrubber, wet scrubber and venturi scrubber with activated carbon (AC) filter. Another 1 of 2 line chemical scrubber, wet scrubber and venturi scrubber were not operating at the time of the sampling as they are still under testing and commissioning. The exceedances could be due to saturation of the AC filter as an increase of VOCs concentration was observed.
Action Taken / Action to be Taken	The contractor has replaced all AC filter media in mid (15th - 20th) of November 2018 (Photograph record attached as
I ancii	Appendix E). The odour sampling collected on 23 November
	2018 from CAPCs complied with EM&A Manual.
Remedial Works and	To avoid saturation of the filter media, it is recommended that
Follow-up Actions	the contractor should test the medium regularly or indicator
_	medium should be used to provide an indication of the
	condition of the media. ET will carry out follow-up audit
	regarding the progress next month.

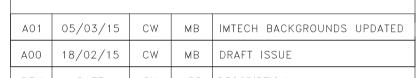
OSCAR Bioenergy Joint Venture EP/SP/61/10 - Organic Resources Recovery Cectre Phase 1

Prepared by: Leah Pak, ET Représentatives
Date 10-December-2018

Appendix C

Monitoring Location





ORGANIC WASTE TREATMENT FACILITIES

DRAWN CW	CHECKED RS	APPROVED DP
SCALE 1:500@A1 / 1:1000@A3		DATE 12/02/15

Appendix D

Odour Sampling Results Summary

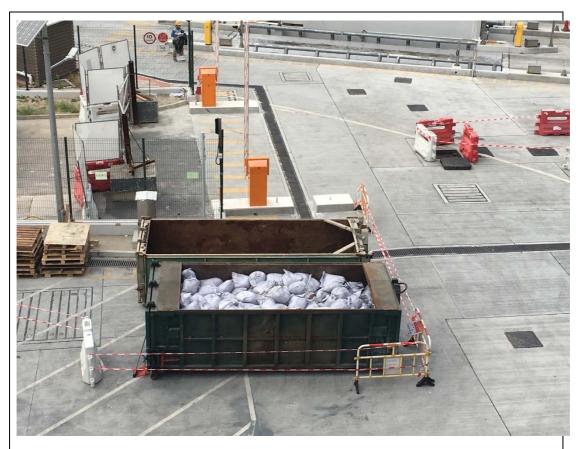
OSCAR Bioenergy Joint Venture EP/SP/61/10 - Organic Resources Recovery Cectre Phase 1

Sampling Date	Sampling Time	Odour Concentration
		$(OU/Nm^3)^{Note}$
5 Oct 2018	11:05-11:10	1204
5 Oct 2018	11:11-11:18	1087
12 Oct 2018	15:08-15:12	2107
12 Oct 2018	15:12-15:16	2463
19 Oct 2018	11:01-11:05	2273
19 Oct 2018	11:06-11:09	2273
26 Oct 2018	10:35-10:40	1817
26 Oct 2018	10:40-10:44	1668
1 Nov 2018	11:08-11:12	1283
1 Nov 2018	11:13-11:16	1016
5 Nov 2018	11:11-11:14	1016
5 Nov 2018	11:15-11:17	1016
5 Nov 2018	11:31-11:35	1016
5 Nov 2018	11:36-11:40	933
23 Nov 2018	11:08-11:13	134
23 Nov 2018	11:14-11:19	144

Note: According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour level is more than 220 OU/Nm³.

Appendix E

Photographs Taken On-Site





The activated carbons (ACs) were standby for replacement on site in mid-November 2018.



The AC bags were being lifted to roof of the Building 2 and ready for replacement.



The ACs were being replaced by on site workers.

Annex J

Investigation Report for Environmental Complaint

Investigation Report of Environmental Complaint

Ref. No.: ORRC-EC-001-20180907

Project	ORRC1
Date	7 September 2018
Time	3:30 p.m.
EPD Reference No	N/A
Description of the Complaint	During the odour patrol conducted by the Employer (EPD Project Team, ER (AECOM) and OSCAR at about 3 pm on 7 September 2018 (Friday), the patrol team received a verbal compliant from a police officer (Mr Cho who works at the Hong Kong Police Siu Ho Wan Vehicle Examination Centre and Weigh Station next to ORRC1, hereafter referred to as the Compound) regarding odour nuisance, flies and mosquitos at the Compound. It is understood that the complainant has also notified the FEHD.
	ER notified the ET in the in the morning of 8 September 2018 (Saturday).
Site Activity	Based on the site information on 7 September 2018, finishing
Summary	work, BS installation, electrical installation (cable trays, Local Control panels/switch installation, general cabling works, instrumentation and control installation, lighting, ELV and SCADA installation) and process commissioning (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) were conducted at the area next to the Compound.
Actions taken/ to	The following actions have been taken/will be taken:
be taken	1. Further to the scheduled joint odour patrol conducted by OSCAR, ER(AECOM) and Employer (EPD Project Team Team) on 7 September 2018, an extra joint odour patrol was conducted by OSCAR, ER (AECOM), ET (ERM), Employer (EPD Project Team Team) and the Independent Odour Patrol Team (ALS) on 10 September 2018. The odour patrol results and photographic records are shown in Appendix A . 2. The construction waste skip (which was identified as the

OSCAR Bioenergy Joint Venture EP/SP/61/10 - Organic Waste Treatment Facilities Phase 1

	potential source of the odour nuisance and flies) was moved
	away from the site boundary next to the Compound on 11
	September 2018, and the storage area next to the original location
	of the construction waste skip had been properly cleaned. The
	photographic records are shown in Appendix B .
	3. An investigation of the potential mosquito generation locations was conducted on 11 September 2018 by OSCAR, ER (AECOM) and ET (ERM). The photographs of the surveyed potential mosquito generation locations are shown in Appendix C.
	4. The frequency pest control at the Facility will be increased from
	twice a week to three times a week.
Remarks	-

Prepared by: Leah Pak, ET Représentative

Date 5-October-2018

Appendix A

Odour Patrol

Appendix A1

Odour Patrol Result



OSCAR Bioenergy Joint Venture

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	7-19/2018
Start & End Time (24hr)	From 15:05 To 15:30
Type of Patrol	Weekly / Monthly / Ac hoe / Follow up / T&C Period Patrol
Weather Condition	Sunny (Cloudy) Windy / Humid / Foggy /
Temperature (C)	2700
Relative Humidity (%)	(1)/2/3/4/5/6/7/8 (0)/1/2/3/4
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	International List Mache Small
Possible Source of Odour	PRV of River Holder
Monitoring Point	International - Hot Placks Sinel PRV ext Riogne Holder - 1/2/3/14/5/6/7/8
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	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	1/2/3/4/5/6/7/8 0/1/2/3/4 Interistend smell of digestate.
Characteristic of Odour	Interiored small of observations
Possible Source of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 - 0 / 1 / 2 / 3 / 4
Monitoring Point	1/2/3/4/5/60/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romanke	
Louver hear contrigu Bld 2,	digestate smell.

	EPD Representative	Employer Representative /	Independent	OSCAR	
Name	FIONA IAM	Refresentative	Odour Patrol Team	1	
Signature	Fars	R	NA	large CHAN	
Date	7/9/2018	7/2/10		7/9/2018	

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4

Revision: Draft

OSCAR Bioenergy Joint Venture

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	7 19 12018
Start & End Time (24hr)	
Type of Patrol	From To / S 3 () Weekly / Monthly / Ac hoc / Follow up / T&C Period Patrol
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/
Temperature (C)	
Relative Humidity (%)	53°C
Monitoring Point	1/2/3/4/5/6(7)8
Intensity of Odour	1/2/3/4/5/6(7)8
Characteristic of Odour	0/(1)/2/3/4
Possible Source of Odour	Intermited minor smell assow
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	1/2/2/4/5/6/5/-
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0 / 1 / 2 / 3 / 4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/6/5
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/6/5
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0/1/2/3/4
Possible Source of Odour	
Monitoring Point	1/2/2/4/5/5/5
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	0 / 1 / 2 / 3 / 4
Possible Source of Odour	
Follow-up Actions Komarke	V
1 Setvicit !	

Name	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Signature	FIONA LAM	Harrie In	N/A	Gience CHAM
Date	719/2018	7/4/18	, 4//(79/2018

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4

Revision: Draft



OSCAR Bioenergy Joint Venture

6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations	-
Date	10/9/2018	
Start & End Time (24hr)	From 16:15 To 16:36	
Type of Patrol	Weekly / Monthly / Ac hoc / Follow-up /	
Weather Condition	Sunny / Coudy / Windy / Humid / Foggy /	
Temperature (°C)	28.7	
Relative Humidity (%)	77.9	
Monitoring Point	(1)/2/3/4/5/6/7/8	
Intensity of Odour	0 / (1) / 2 / 3 / 4	
Characteristic of Odour	Grassy	
Possible Source of Odour	Grass & Tree	
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	P1 = 0
Characteristic of Odour		P2=1 (Trassy
Possible Source of Odour		P2=1 (Trassy Grass & Tro
Monitoring Point	1/2/3/4/5/6/7/8	
Intensity of Odour	0 / (1) / 2 / 3 / 4	
Characteristic of Odour	Concrete & refuse	
Possible Source of Odour	Waste container, construction waste	
Monitoring Point	1/2/3/4/5/6/7/8	
Intensity of Odour	0 / (1) / 2 / 3 / 4	
Characteristic of Odour	Musty of construction material	
Possible Source of Odour	Musty of construction material Construction material 1/2/3/4/5/6/7/8	
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		
Refer to the attachment for	the monitoring point.	

EPD
Representative
Representative
Name
Signature

Employer
Representative
Represe

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4

Revision: Draft

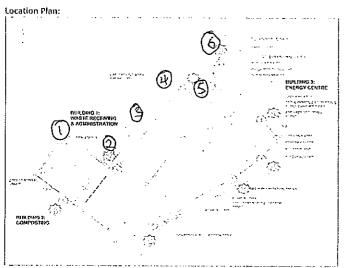
Odour Patrol Survey

(ALS)
Date: 10-9-18

Weather: Sunny / Fine / Cloudy / Rainy

ALS Work Order:

						Somy / the / C	7, 1,0,10,7	-	•	ALS Work Order:	
No.	Location ID	Time	Temp ('C)	RH (%)	Wind Speed (m/s)	Wind Direction	Odour Intensity	Odour Characteristics	Potential Odour Source	Duration	Direction from the Odour Source
-	Sup III.	કણ ભ	\$2.0	éş!	11.1	<i>N</i>	0/1/2/3/4	sewage (rottonegg small) decayed vegetables/ animonical/ dischargeable edops/ pairefaction/ sharr/ pungent/ fish/ irritating/ frmt/ vinegar	Sediment/Water sewage/Hoatma debus material/ethers	Internation Contantions	* Downs aid Orward Asidensing
1		16:15	28.7	77.9	0.8	309	P1: 0 (1/2/3/4 P2: 0 /(1)/2/3/4	Grasgy	Grass & tree	Intermittent/ Continuous	Downwind / Upwind / Sidewind
2		16:19	29.2	77.4	0.9	324	P1 (0)/ 1 / 2 / 3 / 4 P2: 0/ 1 / 2 / 3 / 4	- 0		Intermittent / Continuous	Downwind / Upwind / Sidewind
3		15:22	<u> 285</u>	774	o'	M	P1 (0/1/2/3/4 P2: 0/(1/2/3/4	Gracey	x- 8- W/140	Continuous	Downwind / Upwind / Sidewind
4		16.25	<u>28.9</u>	75.4	1.1	253	P1: 0/1/2/3/4 P2: 0/1/2/3/4	concrede & refuse	Waste O Contains	Intermittent /	Downward / Upwind / Sidewind
S		15:30	28.9	81.6	0	NA	P2: 0 (7)/2/3/4	Muchy of Conduction	Maleral	Internittent/ Continuous	Downwind / Upwind / Sidewind
6	· · · · · · · · · · · · · · · · · · ·	16.36	29.1	76.8	0	M	P1 (0 /1/2/3/4 P2 / 0/1/2/3/4	0		Intermittent / Continuous	Downwind / Upwind / Sidewind
7						, ,	P1: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind
8							P1: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind
	121714		·				P1: 0 / 1 / 2 / 3 / 4 P2: 0 / 1 / 2 / 3 / 4			Intermittent / Continuous	Downwind / Upwind / Sidewind
							P1: 0/1/2/3/4 P2: 0/1/2/3/4			Intermittent / Continuous	Downwind / Upwind / Sidewind



Remark for Odour Intensity:

0 - Not detected

Proposed Patrol Route

1 - Slight 2 - Moderate

3 - Strong 4 - Extreme No odour perceived or an odour so weak that it cannot be readily

)

characterized or described Identifiable odour, slight Identifiable odour, moderate Identifiable odour, strong Severe odour

Possible Odour Sources (No.) / Checkpoint

Assumed Odour Potential (normal operation)

Odour Patrol Team;

ALS Representative

tan / gc/m

Pi. Allen Poon

P2: Pan Yuen



ALS Technichem (HK) Pty Ltd

CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1849200

_

CONTACT: ADDRESS:

Edwin Wong

Venture

No F Share

No. 5, Sham Fung Road, Siu

LABORATORY: SUB-BATCH:

DATE OF ISSUE:

Hong Kong

Ho Wan, North Lantau Island, NT, Hong Kong

SUB-BATCH:

Cong DATE OF PATROL:

0

10 September 2018 18 September 2018

PROJECT:

Ad Hoc Odour Patrol for the

Organic Resources Recovery Centre Phase 1 in Siu Ho

lan

Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (ORRC1)

COMMENTS

Ad hoc Odour Patrol was conducted by ALS Technichem (HK) Pty Ltd staff during 16:15 – 16:38 on 10th September 2018.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Richard Fung

General Manager - Hong Kong

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Work Order: HK1849200

Ad hoc odour patrol service was conducted on 10th September 2018.

2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (ie the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

Two odour patrol team members from ALS Technichem (HK) Pty Ltd were conducted the ad hoc patrol work and the patrol route was guided by the client. All members were free from any respiratory diseases during patrol day. None of the members has been working or living in the area in the vicinity of the inspection area.

The patrol team was required to move slowly from one to the other monitoring locations and used their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

During the patrolling, the meteorological and surrounding information were recorded:

- the prevailing weather condition;
- the wind direction:
- the wind speed;
- location where odour is spotted;
- possible source of odour:
- perceived intensity of the odour:
- duration of odour; and
- characteristics of the odour detected

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The ad hoc odour patrol locations were shown in Appendix 1.



3. Result:

Work Order: HK1849200

tion	Panellist	Weather	Times	Т	RH	WS	WD	Odour	Duration of	Direction from	AN AT I	On-Site Observation										
Location	Pane	Wea	Time	(°C)	(%)	(m/s)	(Deg)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source										
1	1	Cloudy		28.7	77.9	0.8	309	1	Intermittent	Downwind	Crassy	Trace and grace										
ı	2	Cloudy	16:15	20.7	77.9	0.8	309	1	mtermittent	Downwind	Grassy	Trees and grass										
2	1		16:19	29.2	77.4	0.9	324	0	NΑ	NIA	NA	NA										
2	2 Clou	Cloudy		29.2	77.4	0.9	324	0	NA	NA NA	NA NA	NA										
3	1	Claudy	Cloudy 16:22 28.9 77.4	77.4	0.0	N1.4	0	NA	NA	Connection	Trees and areas											
3	2	Cloudy		20.9	9 77.4	0.0	NA	1	Intermittent	INA	Grassy	Trees and grass										
4	1	Cloudy 16	y 16:25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	38.0	75.4	1.1	252	1	late racitte at	Danmaria	Smell of concrete and	Construction waste			
4	2			28.9	75.4	1.1	253	1	Intermittent Downwind	garbage	container											
_	1								-							01.6	0.0	NIA	1		Musty smell of	Construction material
5	2	Cloudy	16:30	28.9	81.6	0.0	NA	1	Intermittent	Intermittent NA	eni i Na i -	storage zone										
6	1	Claudy		29.1	9.1 76.8	0.0		0	NIA	NIA	NA	NA										
6	2	Cloudy	16:36			0.0	NA	0	NA	NA	IA NA NA											

Remark:

T: Air Temperature;
RH: Relative Humidity;
WD: Wind Direction;
WS: Wind Speed.



Work Order: HK1849200 APPENDIX 1

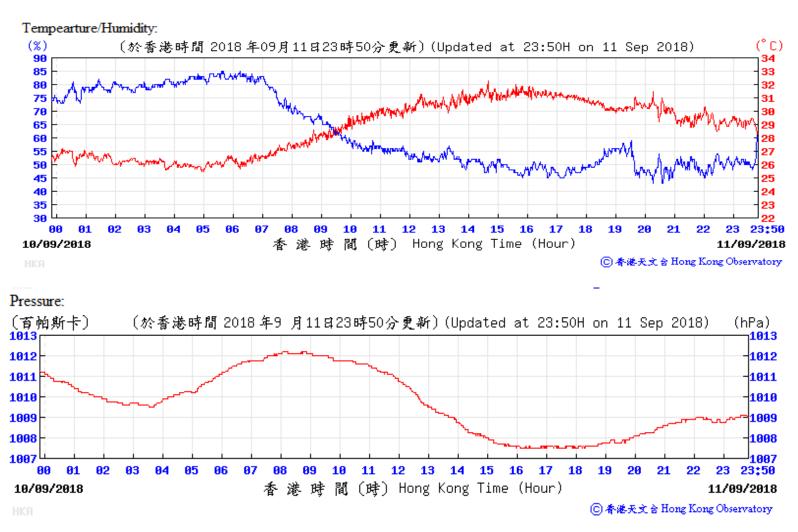
Ad hoc Odour Patrol Route





Work Order: HK1849200 APPENDIX 2

Extract of Meteorological Observations from the Hong Kong Airport Observatory Station



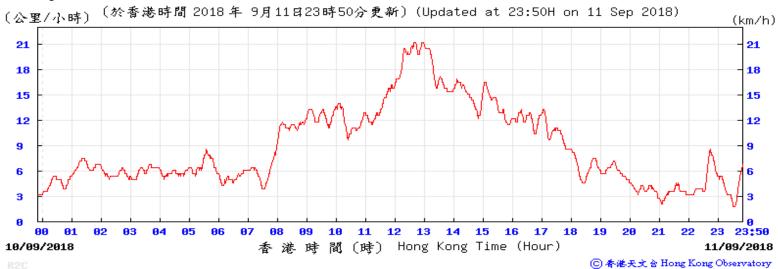


Work Order: HK1849200

Wind Direction:



Wind Speed:





Work Order: HK1849200

APPENDIX 3

Photos for the Odour Patrol Locations



Location: 1



Location: 2



Location: 3



Location: 4



Location: 5



Location: 6

Appendix A2

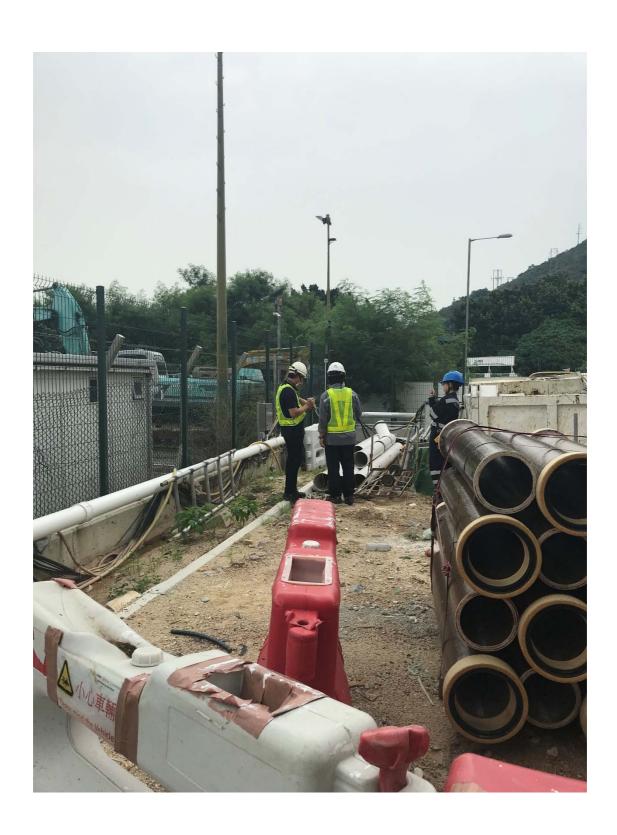
Odour Patrol Photo Record



















Appendix B

Photo Record

Before After





Construction waste skip was relocated.





Storage area was properly cleaned up.

Appendix C

Mosquito Control Points



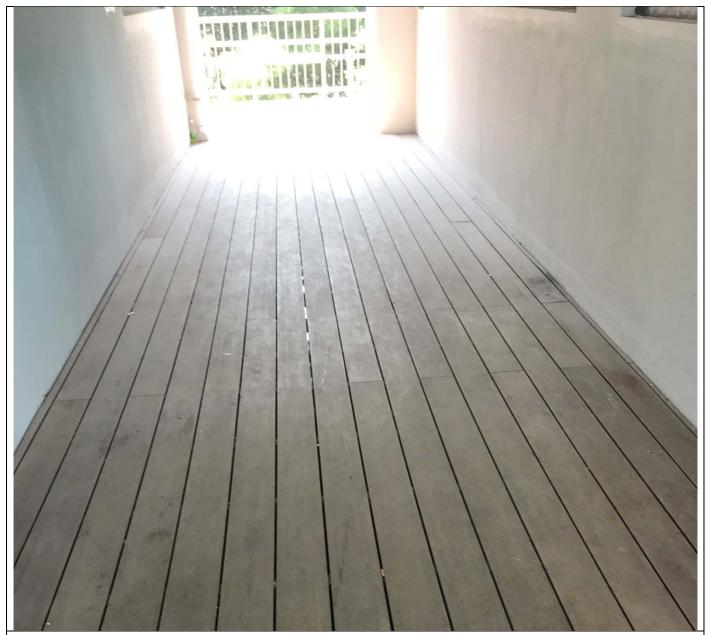


Near Building 1





Near CHP



Link Bridge



Building 1 Roof



All surface channel