Annex =

# Odour Patrol Result

# Annex **=**1

# Odour Patrol Result - July 208\$



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:

HK2024844

CONTACT:

Venture Mr Terence Chan

ADDRESS: No

No. 5, Sham Fung Road, Siu

LABORATORY:

Hong Kong

Ho Wan, North Lantau

Island, NT, Hong Kong

SUB-BATCH:

DATE OF ISSUE:

nong kong

DATE OF PATROL:

3<sup>rd</sup> July 2020 11<sup>th</sup> July 2020

PROJECT:

Odour Patrol for the Organic

Resources Recovery Centre

Phase 1 in Siu Ho Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (O-Park 1)

### COMMENTS

Odour Patrol was conducted by ALS Technichem (HK) Pty Ltd staff during 10:34 - 10:52 and 15:46 - 16:03.

Sampling information (Project name, Sample ID) is provided by client.

### 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

Managing Director - Hong Kong

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1. Summary of Work

Work Order: HK2024844

The odour patrol was conducted during daytime and evening 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.

The patrol work was conducted by two odour patrol team members from ALS Technichem (HK) Pty Ltd during each time session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area of the vicinity of the inspection zone.

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 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	dentifiable odour, moderate					
3	Strong	Identifiable odour, strong					
4	Extreme	Severe odour					

The odour patrol location was shown in Appendix 1.



# **Odour Patrol Result:**

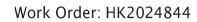
# 3. 3.1. Daytime:

Location	Panellist	Weather	Times	т	RH	WS		Duration of	Direction from	On-Site O	bservation	
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
8	1	Cloudy	10:34	31.0	90.3	1.8	171	0	NA	NA	NA	NA
0	2	Cloudy	10.54	31.0	90.5	1.0	1/1	0	NA	NA	NA	IVA
7	1	Claudy	10.27	20.0	88.7	1.0	175	1	Intermittent	Downwind	Diograf	Biogas Holder
/	2 Cloudy 10:37 30.8	00.7	1.0	1/3	1	intermittent	Downwind	Biogas	Tank Relief Valve			
2	1	Claudy	10.40	30.4	89.2	0.6	100	1	Intermittent	Cido wind	Diograf	Biogas Holder
2	2	Cloudy	10:40	30.4	69.2	0.6	108	1	Intermittent	Side wind	Biogas	Tank Relief Valve
3	1	Claudy	10.42	20.0	88.2	0.4	100	0	NIA	NIA	NIA	NA
3	2	Cloudy	10:42	30.0	88.2	0.4	109	0	NA	NA	NA	NA
F	1	Claude	10.45	21.2	90.0	0.0		0	NIA	NIA	NIA	NA
5		Cloudy	10:45	31.2	89.9	0.0		0	- NA	NA	NA	NA



Location	Panellist	Weather	Time	Т	RH	WS	WD (Degree)	Odour	Odour Duration of from		On-Site Observation		
Loca	Pane	Wea	Time	(°C) (%) (m/s) ≥ 3 Intensity	Odour	Source	Odour Characteristics	Potential Odour Source					
6	1	Cloudy	10:48	30.6	88.4	0.8	132	0	NA	NA	NA	NA	
	2	'	10.10	30.0			131	0					
9	1	Claudy	10:50	30.4	86.2	0.0		0	NA	NA	NA	NA	
9	2	Cloudy	10.50	30.4	60.2	0.0	-	0	INA	NA	NA	NA	
10	1	Claudy	10.52	25.6	70.1	0.0		1	Continuous	NΙΔ	Musty small	Air Conditionar	
10	2	Cloudy	10:52	25.6	70.1	0.0		1	Continuous	NA	Musty smell	Air Conditioner	

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





# 3.2. Evening time:

tion	Illist	ther	T:	Т	DII (0/)	WS	D ree)	Odour	Duration of	Direction from	On-Site O	bservation
Location	Panellist	Weather	Time	(°C)	RH (%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
8	1	Cloudy	15:46	30.1	88.3	0.0		0	NA	NA	NA	NA
0	2	Cloudy	13.40	30.1	00.5	0.0		0	IVA	IVA	IVA	IVA
7	1	Cloudy	15:48	30.3	86.1	0.8	199	1	Intermittent	Side wind	Garbage	Pre-treatment
	2	13.40	30.3	80.1	0.8	199	1	merimeene	Side Willd	Garbage	Hall	
2	1	Cloudy	15:51	29.2	90.4	0.0		0	NA	NA	NA	NA
2	2	Cloudy	13.31	29.2	90.4	0.0		0	INA .	NA	IVA	IVA
3	1	Cloudy	15:52	29.8	90.7	0.3	335	1	Continuous	Side wind	Biogas and	Biogas Holder Tank Relief Valve
3	2	Cloudy	13.32	29.0	90.7	0.5	223	1	Continuous	Side Willd	rotten eggs	and Sewage
_	1	Claudy	15.55	20.6	00.5	0.0		1	Continuous	NI A	Crassy	Nearby vegetetics
)	5 2	Cloudy	15:55 30.	30.0	90.5	0.0		1	- Continuous	NA	Grassy	Nearby vegetation



Location	Panellist	Weather	Time	Т	RH	WS	WD (Degree)	Odour	Duration of	Direction	On-Site Observation		
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	M (Deg	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source	
6	1	Claudy	15:57	30.1	90.2	0.2	182	0	NA	NΑ	NA	NA	
0	2 Cloudy 15:57	13.37	30.1	90.2	0.2	182	0	IVA	NA	NA NA	NA .		
9	1	Cloudy	16:00	29.8	88.3	0.5	333	0	NA	NA	NA	NA	
9	2	Cloudy	10.00	29.0	00.3	0.5	333	0	NA	NA	IVA	NA	
10	1	Claudy	16,02	25.1	70.4	0.0		1	Continuous	NIA	Mustusmall	Air Canditionar	
10	2	Cloudy	16:03	25.1	70.4	0.0		1	Continuous	NA	Musty smell	Air Conditioner	

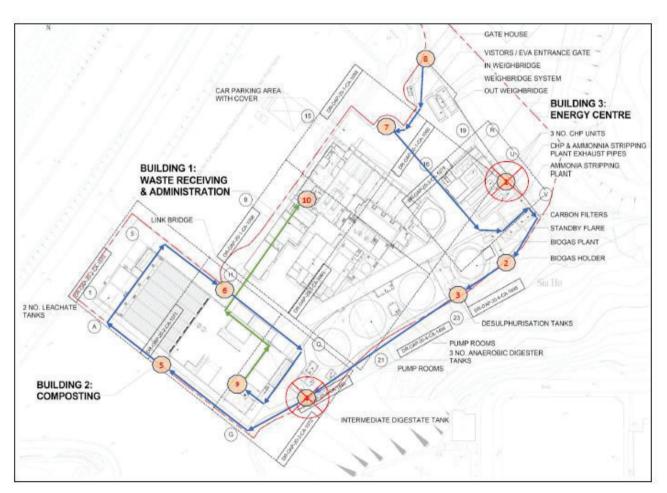
### Remark:

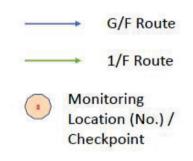
T: Air Temperature; RH: Relative Humidity; WS: Wind Speed; WD: Wind Direction.

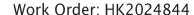


### **APPENDIX 1**

### **Odour Patrol Route**



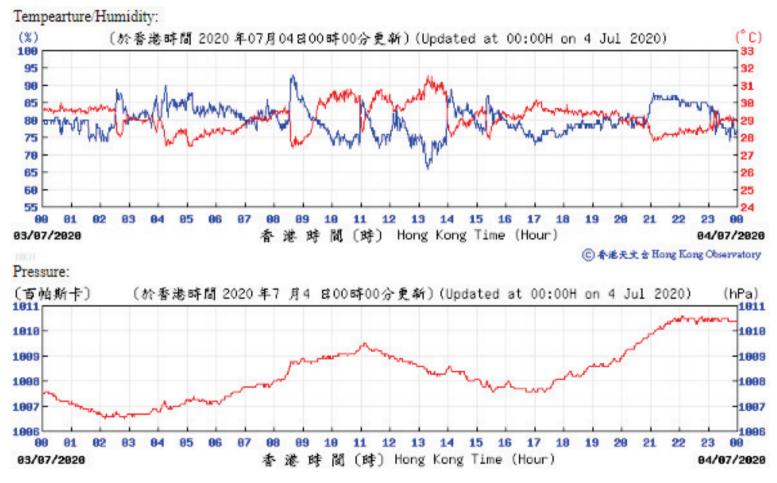


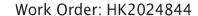




APPENDIX 2

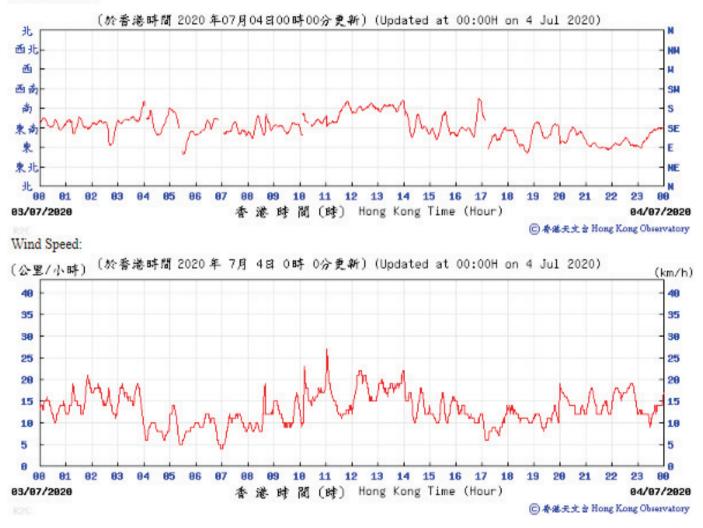
Extract of Meteorological Observations from Hong Kong Airport Observatory Station







### Wind Direction:







## **APPENDIX 3**

# A3.1. Odour Patrol at Different Locations - Daytime



Location: 2



Location: 7



Location: 3



Location: 8



Location: 5



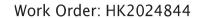
Location: 9



Location: 6



Location: 10





A3.2. Odour Patrol at Different Locations - Evening time



Location: 2



Location: 7



Location: 3



Location: 8



Location: 5



Location: 9



Location: 6



Location: 10

## Annex **=**2

# Odour Patrol Result - August 20&\$



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:

HK2024844

CONTACT:

Venture Mr Terenc

ADDRESS:

Mr Terence Chan

No. 5, Sham Fung Road, Siu Ho Wan, North Lantau

Island, NT, Hong Kong

LABORATORY:

Hong Kong

SUB-BATCH: DATE OF PATROL:

0 3<sup>rd</sup> luly 2020

DATE OF ISSUE:

11<sup>th</sup> July 2020

PROJECT:

Odour Patrol for the Organic

Resources Recovery Centre

Phase 1 in Siu Ho Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (O-Park 1)

### **COMMENTS**

Odour Patrol was conducted by ALS Technichem (HK) Pty Ltd staff during 10:34 - 10:52 and 15:46 - 16:03.

Sampling information (Project name, Sample ID) is provided by client.

### 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 Managing Director - Hong Kong

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4	Extreme	Severe odour					

The odour patrol location was shown in Appendix 1.



# **Odour Patrol Result:** 3. 3.1.

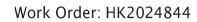
# Daytime:

Location	Panellist	Weather	Time	т	RH	WS	WD (Degree)	Odour	Duration of	Direction from	On-Site O	bservation	
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source	
8	1	Cloudy	10:34	31.0	90.3	1.8	171	0	NA	NA	NA	NA	
0	2	Cloudy	10.54	31.0	90.5	1.0	1/1	0	NA	NA	NA	NA	
7	1	Claudy	10.27	20.0	88.7	1.0	175	1	Intermittent	Downwind	Diograf	Biogas Holder	
/	2 Cloudy 10:37 30.8	30.8	00.7	1.0	1/3	1	intermittent	Downwina	Biogas	Tank Relief Valve			
2	1	Claudy	10:40	30.4	89.2	0.6	108	1	Intermittent	Side wind	Diograf	Biogas Holder	
2	2	Cloudy	10.40	30.4	69.2	0.6	108	1	mtermittent	Side Willd	Biogas	Tank Relief Valve	
3	1	Claudy	10.42	20.0	88.2	0.4	109	0	NIA	NIA	NIA	NA	
3	2	Cloudy	10:42	30.0	00.2	0.4	109	0	NA	NA	NA	NA	
F	1	Claudy	10.45	21.2	90.0	0.0		0	NIA	NIA	NIA	NA	
5		Cloudy	10:45	31.2	89.9	0.0		0	- NA	NA	NA	NA	



Location	Panellist	Weather	Time	Т	RH	WS	WD (Degree)	Odour	Odour Duration of from		On-Site Observation		
Loca	Pane	Wea	Time	(°C) (%) (m/s) ≥ 3 Intensity	Odour	Source	Odour Characteristics	Potential Odour Source					
6	1	Cloudy	10:48	30.6	88.4	0.8	132	0	NA	NA	NA	NA	
	2	'	10.10	30.0			131	0					
9	1	Claudy	10:50	30.4	86.2	0.0		0	NA	NA	NA	NA	
9	2	Cloudy	10.50	30.4	60.2	0.0	-	0	INA	NA	NA	NA	
10	1	Claudy	10.52	25.6	70.1	0.0		1	Continuous	NΙΔ	Musty small	Air Conditionar	
10	2	Cloudy	10:52	25.6	70.1	0.0		1	Continuous	NA	Musty smell	Air Conditioner	

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





# 3.2. Evening time:

tion	Illist	ther	T:	Т	DII (0/)	WS	D ree)	Odour	Duration of	Direction from	On-Site O	bservation
Location	Panellist	Weather	Time	(°C)	RH (%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
8	1	Cloudy	15:46	30.1	88.3	0.0		0	NA	NA	NA	NA
0	2	Cloudy	13.40	30.1	00.5	0.0		0	IVA	IVA	IVA	IVA
7	1	Cloudy	15:48	30.3	86.1	0.8	199	1	Intermittent	Side wind	Garbage	Pre-treatment
	2	13.40	30.3	80.1	0.8	199	1	merimeene	Side Willd	Garbage	Hall	
2	1	Cloudy	15:51	29.2	90.4	0.0		0	NA	NA	NA	NA
2	2	Cloudy	13.31	29.2	90.4	0.0		0	INA .	NA	IVA	IVA
3	1	Cloudy	15:52	29.8	90.7	0.3	335	1	Continuous	Side wind	Biogas and	Biogas Holder Tank Relief Valve
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_	1	Claudy	15.55	20.6	00.5	0.0		1	Continuous	NI A	Crassy	Nearby vegetetics
)	5 2	Cloudy	15:55 30.	30.0	90.5	0.0		1	- Continuous	NA	Grassy	Nearby vegetation



Location	Panellist	Weather	Time	Т	RH	WS	WD (Degree)	Odour	Duration of		On-Site Observation	
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	M (Deg	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
6	1	Claudy	15:57	30.1	90.2	0.2	182	0	NA	NA	NA	NA
	2 Cloudy 15:	13.37	30.1	90.2	0.2	182	0	NA	IVA	IVA	NA	
9	1	Claudy	16:00	29.8	88.3	0.5	333	0	NA	NA	NA	NA
9	2	Cloudy	10.00	29.0	00.3	0.5	333	0	NA	NA	IVA	IVA
10	1	Claudy	16.02	25.1	70.4	0.0		1	Continuous	NA	Mustusmall	Air Canditionar
10	10 2	Cloudy	16:03	25.1	70.4	0.0		1	Continuous	NA	Musty smell	Air Conditioner

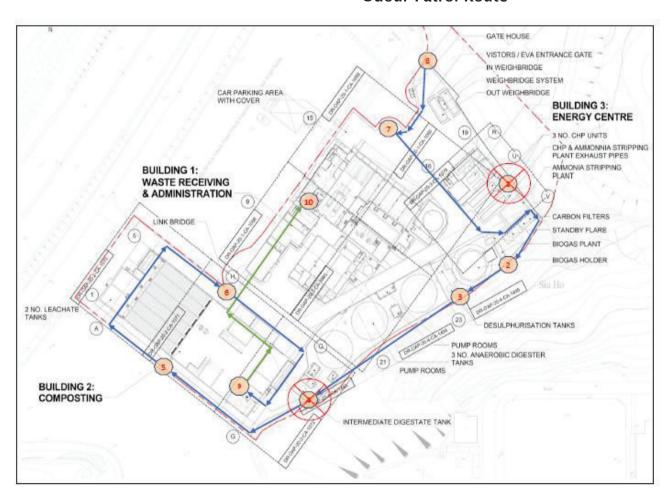
### Remark:

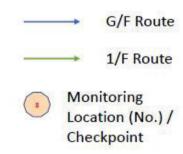
T: Air Temperature; RH: Relative Humidity; WS: Wind Speed; WD: Wind Direction.

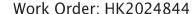


### **APPENDIX 1**

### **Odour Patrol Route**



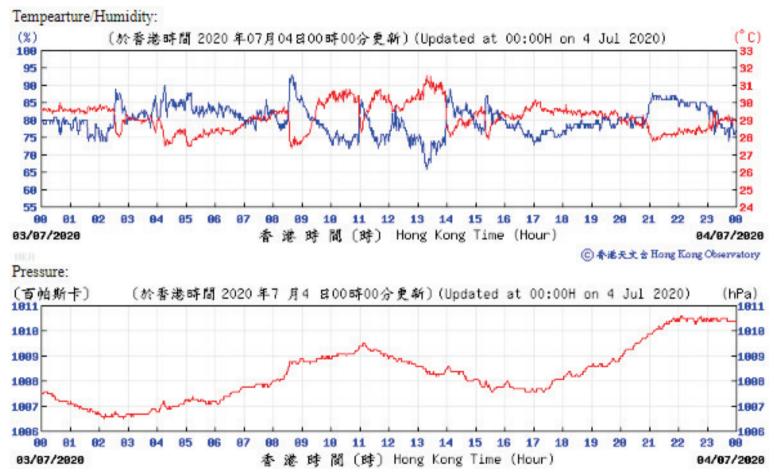


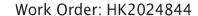




APPENDIX 2

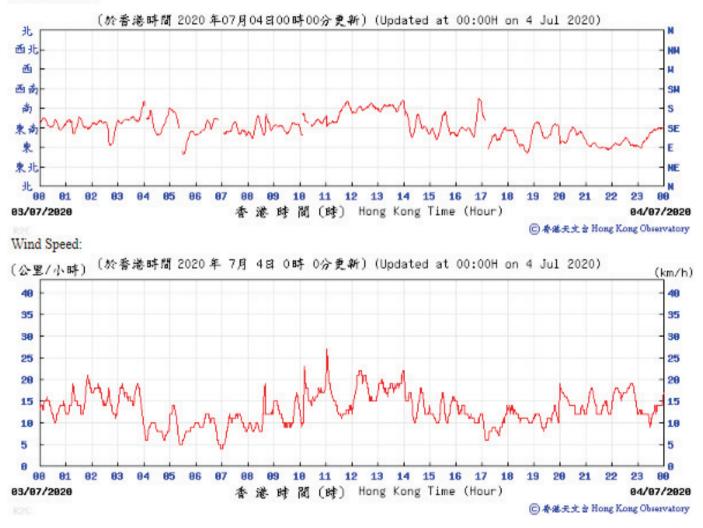
Extract of Meteorological Observations from Hong Kong Airport Observatory Station







### Wind Direction:







## **APPENDIX 3**

# A3.1. Odour Patrol at Different Locations - Daytime



Location: 2



Location: 7



Location: 3



Location: 8



Location: 5



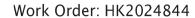
Location: 9



Location: 6



Location: 10





A3.2. Odour Patrol at Different Locations - Evening time



Location: 2



Location: 7



Location: 3



Location: 8



Location: 5



Location: 9



Location: 6



Location: 10