



大成環境科技拓展有限公司
ENVIRONMENTAL PIONEERS & SOLUTIONS LIMITED

豐盛創建環保科技集團附屬公司 Subsidiary of FSE Environmental Technologies Group
豐盛創建成員 Member of FSE Holdings

Proposed Road Improvement Works in West Kowloon Reclamation Development – Phase 1

Baseline Environmental Monitoring (AM2 24-hr TSP) Report

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APPROVAL SHEET

Prepared and Certified by:

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Date: 22 April 2016

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EXECUTIVE SUMMARY

This baseline monitoring report presents the baseline air quality monitoring results performed from AM2.

24-hr Total Suspended Particulates (TSP) of AM2 baseline monitoring for 14 consecutive days were conducted as stipulated in their respective sections in the Environmental Monitoring and Audit Manual. Data obtained from the monitoring was processed to establish action and limit levels.

24-hr TSP baseline monitoring was conducted at AM2 from 19th March 2016 to 1st April 2016.

Details of the monitoring location and results are presented in this baseline monitoring report.

1. INTRODUCTION

1.1 Project Background Information

This is a road improvement project in West Kowloon Reclamation Development (WKRd) for completing the developments and the commissioning of the new transport facilities.

Apart from the additional traffic impacts arising from the major development and transport facilities in WKRd, several major junctions in the area are currently operating with insufficient capacity causing serious congestion to some existing major road corridors such as Jordan Road (JRD), Ferry Street (FST) and Canton Road (CRD).

To enhance the road network of the area, Transport Department commissioned the “West Kowloon Reclamation Development Traffic Study” which identified and recommended Core and Additional Schemes together with the improvement works at the junction of CRD/FST/JRD. Implementation of these schemes would enable most of the key road junctions in the study area to operate with spare capacity, and the traffic queue length would also be reduced avoiding blockage to the upstream junctions.

In accordance with the requirements stated in the Environmental Permit (no.: EP-455/2013) based on the Environmental Monitoring and Audit (EM&A) Manual and reference to Annex 21 Technical Memorandum under the Environmental Impact Assessment Ordinance (EIAO-TM), baseline monitoring of air quality and noise are required to be carried out prior to the commencement of construction of the project.

1.2 Purpose

By establishing the baseline level of air quality, the performance of the construction contractor shall be measured in meeting required environmental protection standards and requirements of the EM&A Manual. This report presents the methodology, monitoring location, equipment, period, results and observations for the environmental measurements during the baseline monitoring period.

2. AIR QUALITY MONITORING

According to the EM&A Manual, monitoring of the 24 Hours Total Suspended Particulate (24-hr TSP) levels should be carried out for 14 consecutive days at four monitoring locations.

This is the baseline monitoring report for 24-hr TSP for monitoring location AM2.

24-hr TSP monitoring for AM1 and AM3-A have been conducted from 8th January 2016 to 21st January 2016 and 19th December 2015 to 1st January 2016.

Due to the rejection from the representatives/ property management of the premises, high volume samplers are not feasible to be installed at AM4 for the 24-hr TSP monitoring. Alternative location AM4-A is proposed accordingly. Coordination with the representatives of premises for the installation of High Volume Sampler (HVS) at AM4-A is in progress.

2.1 Monitoring Methodology and Parameters

Measurements of 24-hr TSP monitoring were taken by High Volume Sampler (HVS).

HVS fitted with appropriate sampling inlets were employed for air quality monitoring. Each sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Installation of HVS:

- A horizontal platform with appropriate support to secure the samplers against gusty wind should be provided;
- No two samplers should be placed less than 2 meters apart;
- The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 meters of separation from walls, parapets and penthouses is required for rooftop samplers;
- A minimum of 2 meters separation from any supporting structure, measured horizontally is required;
- No furnace or incinerator flue is nearby;

- Airflow around the sampler is unrestricted;
- The sampler is more than 20 meters from the dripline;
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring;
- Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- A secured supply of electricity is needed to operate the samplers.

Data of wind speed and wind direction was extracted from King's Park Meteorological Station of Hong Kong Observatory. The collection of wind data meets the prescribed criteria in S.3.4.3 of the EM&A Manual.

Other relevant data such as monitoring location, time, weather conditions and any other special phenomena at the construction site were recorded during the measurement period. The monitoring parameters and frequency are summarized in **Table 2.1**.

Table 2.1 – 24-hr TSP Baseline Monitoring Parameters and Frequency

Parameter	Frequency	Monitoring Period
24-hr TSP	1 time per day	14 consecutive days

2.2 Monitoring Location

Monitoring for 24-hr TSP was conducted at AM2. Due to the rejection from the representative/property management of the premises, the HVS is not feasible to be installed at AM2. The HVS was set up near the planter in front of the Garden Building. The considerations listed on the EM&A Manual Section 3.5.1, have been taken into account for setting up the monitoring location, which was approved by the ER and IEC. The monitoring location is located close to the Garden Building and the obtained monitoring results appropriately present the baseline air quality of the Garden Building. Details are shown in **Table 2.2** and **Appendix A**.

Table 2.2 – 24-hr TSP Baseline Monitoring Location

Identification No.	Monitoring Location	Description	Parameter	Monitoring Period
AM2	Garden Building	Ground Floor Face to Canton Road	24-hr TSP	19 th Mar 16 to 1 st Apr 16

2.3 Monitoring Equipment

The measurement equipment for 24-hr TSP is summarized in **Table 2.3** and Calibration Certificates are shown in **Appendix B**.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Manufacturer & Model No.	Parameter
High Volume Sampler (HVS)	Tisch TE-5170	TSP (24-hr)
Calibration Kit for HVS	Tisch TE-5028A	N/A

2.4 Quality Assurance / Quality Control Results and Detection Limits

Calibration was first been conducted after installing the HVS and repeated on bi-monthly basis. Calibration Kit for HVS was calibrated annually by the manufacturer or a HOKLAS laboratory. The detection limits of the HVS meet with the prescribed standard. Calibration details and current Calibration Certificates are shown in **Appendix B**.

2.5 Monitoring Results and Observations

There were a total of 14 sets of 24-hr TSP monitoring data obtained at the monitoring location. The monitoring results are summarized in **Table 2.4**. All monitoring data and the graphical plot are shown in **Appendix C**.

Table 2.5 Summary of Average 24-hr TSP Baseline Monitoring Results

Monitoring Location	Average 24-hr TSP ($\mu\text{g}/\text{m}^3$)
AM2	81

During the monitoring period, construction activities from other construction sites near Canton Road and vehicle emissions were the influencing factors for AM2.

2.6 Action and Limit Levels

According to the EM&A Manual, the criteria of establishing Action and Limit levels of 24-hr TSP are summarized in **Table 2.6.1**.

Table 2.6.1 Action and Limit Levels for 24-hr TSP

Cases	Action Level	Limit Level
Averaged baseline level $\leq 200 \mu\text{g}/\text{m}^3$	$= (\text{Baseline level} \times 1.3 + \text{Limit level}) / 2$	$260 \mu\text{g}/\text{m}^3$
Averaged baseline level $> 200 \mu\text{g}/\text{m}^3$	$= \text{Limit level}$	

The baseline monitoring results have formed the basis of air quality requirements for the impact monitoring. According to the measured baseline results, Action and Limit levels for 24-hr TSP impact monitoring are established in **Table 2.6.2**.

Table 2.6.2 Established 24-hr TSP Action and Limit Levels

Monitoring Location	Action Level	Limit Level
AM2	$183 \mu\text{g}/\text{m}^3$	$260 \mu\text{g}/\text{m}^3$

3. REVISIONS FOR INCLUSION IN THE EM&A MANUAL

24-hr TSP baseline monitoring for 14 consecutive days for AM2 has been conducted in accordance with to the EM&A Manual. The monitoring methodology, parameters and location for 24-hr TSP monitoring for AM2 are all in line with the EM&A Manual.

24-hr TSP baseline monitoring for AM1 and AM3-A, the alternative location of AM3, have been completed. Installation of HVS at AM4 was rejected by the representatives / property management of premises. The 24-hr TSP cannot be carried out at the designated location, AM4, in accordance with the EM&A Manual.

Arrangement of alternative monitoring location for 24-hr TSP for AM4 is in pending stage. The conditions given in S.3.5.1 of the EM&A Manual were been taken into account for choosing the alternative location. The details of 24-hr TSP monitoring shall be reported in a separate proposal.

4. CONCLUSION

24-hr TSP monitoring for 14 consecutive days have been conducted at timeframe when there is no construction works underwent by this project in the identified nearest sensitive receiver, AM2, from 19th March 2016 to 1st April 2016.

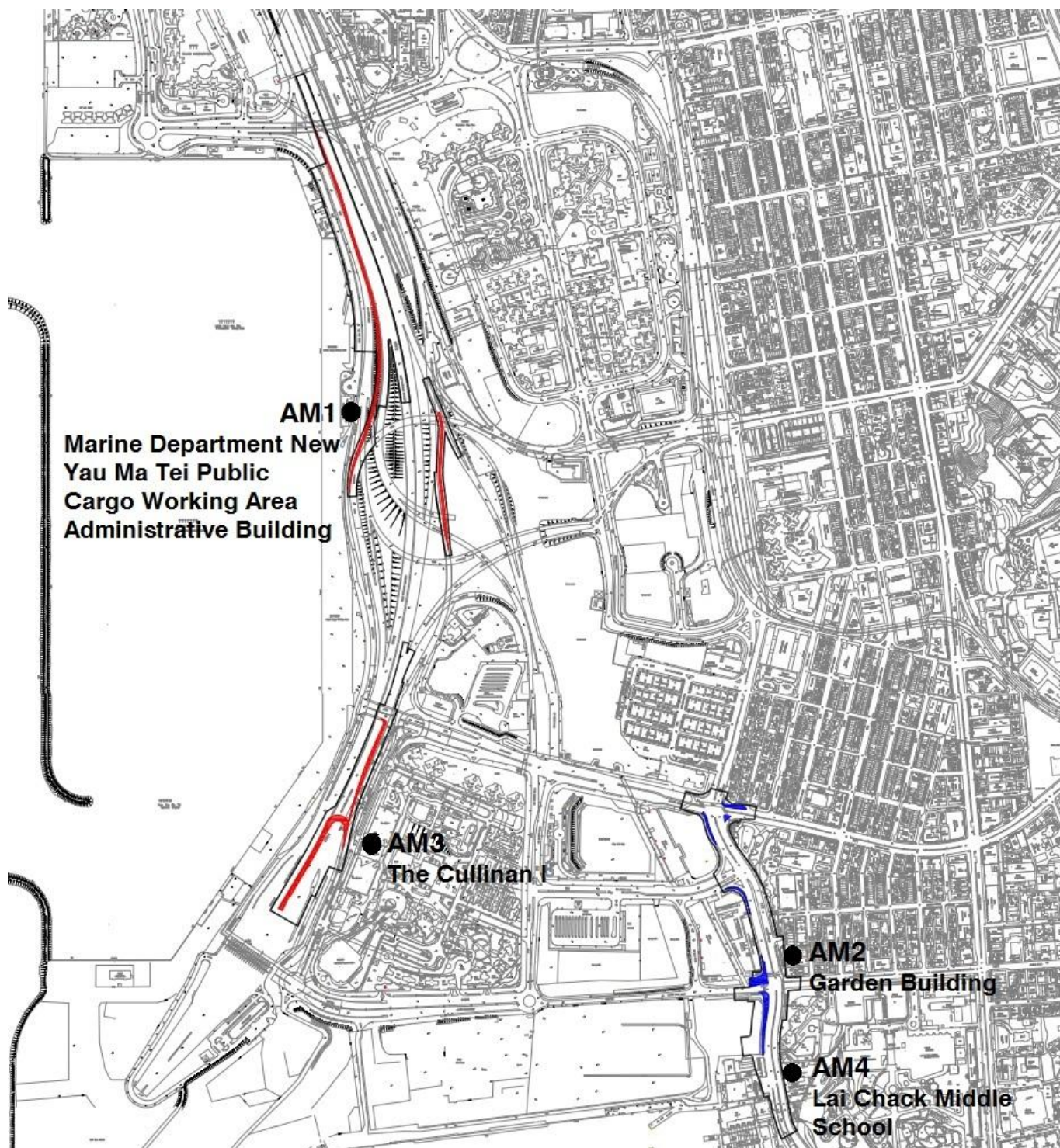
The average 24-hr TSP level was 81 $\mu\text{g}/\text{m}^3$.


The established action level for 24-hr TSP measurement was 183 $\mu\text{g}/\text{m}^3$. The limit level was 260 $\mu\text{g}/\text{m}^3$.

24-hr TSP baseline monitoring for AM1 and AM3-A have been completed. 24-hr TSP baseline monitoring for AM4 was not carried out in the monitoring period. The details of 24-hr TSP baseline monitoring at AM4 was presented in a separate proposal.

Appendix A

Monitoring Locations



Monitoring Location	Photo Record
<p>AM2</p> <p>Garden Building</p>	 <p>The top photograph shows a street scene with a green sign above a doorway and a date stamp '2016/03/16' in the bottom right corner. The bottom photograph shows an air quality monitoring station with a date stamp '2016/03/16' in the bottom right corner. The station has a yellow warning sign with a lightning bolt and the text 'High Voltage' and 'Danger'.</p>

Appendix B

Calibration Certificate

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

Date - Feb 11, 2016 Rootmeter S/N 0438320 Ta (K) - 294
Operator Tisch Orifice I.D. - 2137 Pa (mm) - 758.19

PLATE OR VDC #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3380	4.2	1.50
2	NA	NA	1.00	1.0270	6.9	2.50
3	NA	NA	1.00	0.9420	8.2	3.00
4	NA	NA	1.00	0.8730	9.6	3.50
5	NA	NA	1.00	0.6630	16.5	6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0055	0.7515	1.2316	0.9944	0.7432	0.7627
1.0019	0.9756	1.5900	0.9908	0.9648	0.9846
1.0002	1.0618	1.7417	0.9891	1.0500	1.0786
0.9983	1.1436	1.8813	0.9873	1.1309	1.1650
0.9891	1.4919	2.4632	0.9781	1.4754	1.5253
Qstd slope (m) = 1.66881			Qa slope (m) = 1.04498		
intercept (b) = -0.02897			intercept (b) = -0.01794		
coefficient (r) = 0.99983			coefficient (r) = 0.99983		
y axis = $\text{SQRT}[\text{H2O}(\text{Pa}/760)(298/\text{Ta})]$			y axis = $\text{SQRT}[\text{H2O}(\text{Ta}/\text{Pa})]$		

CALCULATIONS

$$\text{Vstd} = \text{Diff. Vol}[(\text{Pa} - \text{Diff. Hg})/760](298/\text{Ta})$$

$$\text{Qstd} = \text{Vstd}/\text{Time}$$

$$\text{Va} = \text{Diff Vol}[(\text{Pa} - \text{Diff Hg})/\text{Pa}]$$

$$\text{Qa} = \text{Va}/\text{Time}$$

For subsequent flow rate calculations:

$$\text{Qstd} = 1/m\{[\text{SQRT}(\text{H2O}(\text{Pa}/760)(298/\text{Ta}))] - b\}$$

$$\text{Qa} = 1/m\{[\text{SQRT}(\text{H2O}(\text{Ta}/\text{Pa}))] - b\}$$

**Tisch Environmental, Inc.
TSP Sampler Calibration
(Dickson recorder)**

SITE

Location: **Nga Cheung Road** Date: **19-Mar-16**
 Sampler: **TE-5170 MFC** Tech: **Andy Tsang**

CONDITIONS

Barometric Pressure (in Hg):	17.00	Corrected Pressure (mm Hg):	432
Temperature (deg F):	63	Temperature (deg K):	290
Average Press. (in Hg):	17.00	Corrected Average (mm Hg):	432
Average Temp. (deg F):	63	Average Temp. (deg K):	290

CALIBRATION ORIFICE

Make: Tisch	Qstd Slope: 2.01000
Model: TE-5028A	Qstd Intercept: -0.02003
Serial#: 9833620	Date Certified: 11-Feb-16

CALIBRATIONS

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
1	0.30	0.218	26.0	19.86	Slope = 63.9655
2	0.70	0.328	32.0	24.44	Intercept = 4.5476
3	1.00	0.390	38.0	29.02	Corr. coeff.= 0.9880
4	1.50	0.475	44.0	33.61	
5	2.20	0.574	56.0	42.77	# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)] - b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Appendix C

Monitoring Results and Graphical plots



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ENVIRONMENTAL PIONEERS & SOLUTION LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 2
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<i>Facsimile</i>	: +852 2258 0568	<i>Facsimile</i>	: +852 2610 2021		
<i>Project</i>	: PROPOSED ROAD IMPROVEMENT WORKS IN WEST KOWLOON RECLAMATION DEVELOPMENT - PHASE 1	<i>Quote number</i>	: ---	<i>Date received</i>	: 07-APR-2016
<i>Order number</i>	: ---			<i>Date of issue</i>	: 19-APR-2016
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- Received : 7
<i>Site</i>	: ---				- Analysed : 7

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1613846 supersedes any previous reports with this reference. The completion date of analysis is 12-APR-2016. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1613846 :

Samples were picked up from client by ALS Technichem (HK) staff in an ambient condition.
Sample(s) analysed and reported on an as received basis.

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

<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:</i>
Fung Lim Chee, Richard	General Manager	Inorganics



Analytical Results

Sub-Matrix: FILTER (TSP/RSP)

			Compound	HK-TSP: Total Suspended Particulates	HK-TSP: Initial Weight	HK-TSP: Final Weight		
			LOR Unit	0.0010 g	0.0010 g	0.0010 g		
Client sample ID	Client sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	EA/ED: Physical and Aggregate Properties	EA/ED: Physical and Aggregate Properties		
AM20319 200590	[19-MAR-2016]	HK1613846-001		0.1756	2.8261	3.0017		
AM20320 200591	[20-MAR-2016]	HK1613846-002		0.1733	2.8270	3.0003		
AM20321 200592	[21-MAR-2016]	HK1613846-003		0.0929	2.8401	2.9330		
AM20322 200593	[22-MAR-2016]	HK1613846-004		0.0766	2.8391	2.9157		
AM20323 200595	[23-MAR-2016]	HK1613846-005		0.1194	2.8490	2.9684		
AM20324 200596	[24-MAR-2016]	HK1613846-006		0.0763	2.8495	2.9258		
AM20325 200598	[25-MAR-2016]	HK1613846-007		0.1188	2.8401	2.9589		



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ENVIRONMENTAL PIONEERS & SOLUTION LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 2
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<i>Facsimile</i>	: +852 2258 0568	<i>Facsimile</i>	: +852 2610 2021		
<i>Project</i>	: PROPOSED ROAD IMPROVEMENT WORKS IN WEST KOWLOON RECLAMATION DEVELOPMENT - PHASE 1	<i>Quote number</i>	: ----	<i>Date received</i>	: 07-APR-2016
<i>Order number</i>	: ----			<i>Date of issue</i>	: 19-APR-2016
<i>C-O-C number</i>	: ----			<i>No. of samples</i>	- Received : 7
<i>Site</i>	: ----				- Analysed : 7

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1613845 supersedes any previous reports with this reference. The completion date of analysis is 12-APR-2016. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:</i>
Fung Lim Chee, Richard	General Manager	Inorganics



Analytical Results

Sub-Matrix: FILTER (TSP/RSP)

			Compound	HK-TSP: Total Suspended Particulates	HK-TSP: Initial Weight	HK-TSP: Final Weight		
			LOR Unit	0.0010 g	0.0010 g	0.0010 g		
Client sample ID	Client sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	EA/ED: Physical and Aggregate Properties	EA/ED: Physical and Aggregate Properties		
AM20326 200597	[26-MAR-2016]	HK1613845-001		0.1782	2.8483	3.0265		
AM20327 200588	[27-MAR-2016]	HK1613845-002		0.1159	2.8408	2.9567		
AM20328 200587	[28-MAR-2016]	HK1613845-003		0.2128	2.8458	3.0586		
AM20329 200594	[29-MAR-2016]	HK1613845-004		0.1950	2.8364	3.0314		
AM20330 200586	[30-MAR-2016]	HK1613845-005		0.2236	2.8396	3.0632		
AM20331 200589	[31-MAR-2016]	HK1613845-006		0.3495	2.8373	3.1868		
AM20401 200585	[01-APR-2016]	HK1613845-007		0.2098	2.8057	3.0155		

24-hr TSP Monitoring Result for AM2

Sampling ID & Paper No.	Sampling Date	Wt. of paper (g)			Flow Rate (CFM)			Total Volume (m ³)	TSP Concentration (µg/m3)	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *
		Initial Wt.	Final Wt.	Wt. of dust	Initial	Final	Avg Flow					
AM20319 200590	19/03/16	2.8261	3.0017	0.1756	50	50	50.0	2038.81	86.1286	20 - 25	SE	0.1-4.7
AM20320 200591	20/03/16	2.8270	3.0003	0.1733	50	50	50.0	2038.81	85.0004	17 - 18	SE	0.8-7.8
AM20321 200592	21/03/16	2.8401	2.9330	0.0929	50	50	50.0	2038.81	45.5657	16 - 18	SE	2.2-8.9
AM20322 200593	22/03/16	2.8391	2.9157	0.0766	50	50	50.0	2038.81	37.5709	15 - 17	SE	3-8
AM20323 200595	23/03/16	2.8490	2.9684	0.1194	50	50	50.0	2038.81	58.5635	17 - 20	SE	0-6.7
AM20324 200596	24/03/16	2.8495	2.9258	0.0763	50	50	50.0	2038.81	37.4237	13 - 15	SE	0-5.2
AM20325 200598	25/03/16	2.8401	2.9589	0.1188	50	50	50.0	2038.81	58.2692	13 - 16	NE	0-4.4
AM20326 200597	26/03/16	2.8483	3.0265	0.1782	50	50	50.0	2038.81	87.4038	13 - 19	SE	0.1-4.7
AM20327 200588	27/03/16	2.8408	2.9567	0.1159	50	50	50.0	2038.81	56.8468	14 - 22	NE	0.1-4.2
AM20328 200587	28/03/16	2.8458	3.0586	0.2128	50	50	50.0	2038.81	104.3745	15 - 19	SE	0-5.2
AM20329 200594	29/03/16	2.8364	3.0314	0.1950	50	50	50.0	2038.81	95.6439	15 - 21	SE	0-3.9
AM20330 200586	30/03/16	2.8396	3.0632	0.2236	50	50	50.0	2038.81	109.6717	18 - 23	SE	0-4.4
AM20331 200589	31/03/16	2.8373	3.1868	0.3495	50	50	50.0	2038.81	171.4233	19 - 24	W	0.1-2.7
AM20401 200585	01/04/16	2.8057	3.0155	0.2098	50	50	50.0	2038.81	102.9030	20 - 25	SE	0-3.9

*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO

AM2 - 24-hr TSP Graph plot

