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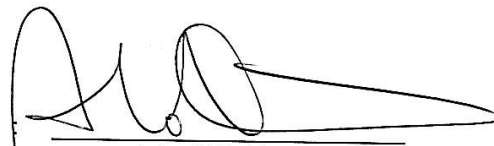
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Contract No. EP/SP/58/08
Sludge Treatment Facilities
Environmental Monitoring and Audit Report
for
June 2011

Materialab Ref No.: 100440EN110892

Certified by



John K.M. Ho
(Environmental Team Leader)

Date : 2 July 2011

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1. Executive Summary

Construction work commenced on 22 December 2010. It was of main concern to ascertain whether there was any undesirable effect of the construction activities on various environmental parameters over the site area and the surrounding environment. Impact environmental monitoring on water quality, ecology and landscape and visual impact were carried out to acquire data for assessing any impact associated with the construction activities. This report covers the period from 25th May to 24th June 2011 inclusive.

Marine Water Quality

Pursuant to EM&A manual, marine water quality monitoring is required during the foundation piling. Piling work was commenced on 21st February while marine water quality monitoring was conducted during the reporting period.

Full compliance was achieved in this reporting month.

Stream Water Quality

As far as the water quality was concerned, 45 events of non-compliance of Action / Limit levels on various monitored parameters were recorded in the reporting period.

The recorded exceedances are not caused by the construction activities so there was no action taken with regards to the action plan.

In general, the stream water quality was not significantly deteriorated after the commencement of the major construction works on 21/02/2011.

Occasionally, no water at C1 was observed. Therefore, measurement and sampling was cancelled.

Landfill Gas Monitoring

There was no excavation or works related to manholes, chambers and confined space in the reporting period. Monitoring for landfill gas was not carried out in the reporting period.

Ecology Monitoring

Four surveys were conducted on 3rd, 9th, 16th and 23rd June 2011 at the Middle Lagoon. Total of 179 nos. of birds of 20 species was recorded on 23rd June 2011. Four Little Grebes nests were observed on one of the pools in the southwestern corner of the Middle Lagoon. All measures were followed to minimize the disturbance of the wildlife. No disturbance was observed while piling work in progress.

Landscape and Visual Monitoring

Landscape and visual impact monitoring was conducted on 10th and 22nd June 2011. Details are presented in Section 4.4.

Works Undertaken During Reporting Period

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The construction phase commenced on 22 December 2010, major site activities conducted in the reporting period includes:

- PFA layer compaction in the site area.
- Cut and fill operation at areas for piling
- Piling at North part of the site
- Construction of EPC's office at the North-west corner of the site
- Excavation of sludge bunkers at plant A & B.

Works area is shown in Figure 1.1

Reporting Changes and Future Key Issues

It is anticipated that the existing operation should not create significant nuisance and disturbance on the environmental aspects of air quality, noise level and water quality. Foundation piling was started on 21st February 2011 and throughout the reporting period. Contractor should implement proposed measures to minimize potential impact to the noise and prevent releasing of heavy metals into the Deep Bay Water Control Zone.

Complaints, Summons and Successful Prosecutions

As far as complaints, summons and successful prosecutions on the construction work in respect of the environmental protection and pollution control was concerned, there was no documented correspondence received in the reporting period.

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2. Introduction

This monthly report reviews the progress of the environmental monitoring and audit work at the site for Contract No. EP/SP/58/08 from 25th May 2011 to 24th June 2011 (the reporting period) and forecasts the activities for July 2011. The monitoring results for water quality are presented in Appendix 3 and the corresponding graphical plots are shown in Appendix 4. Since results of all heavy metal content were less than detection limit, no graphical presentation for marine water quality results for the reporting period is included. Findings of Ecology and Landscape monitoring are presented in Section 4.

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3. General Review

3.1. Background

The Contractor, VW-VES (HK) Limited, has been awarded a contract by the Environmental Protection Department of the Government of the Hong Kong Special Administrative Region for the Sludge Treatment Facilities. The location of the site is shown in Figure 3.1.

The program commenced in November 2010 and is anticipated to complete in 2013.

The construction schedule will be based on the major works associated with the project. The major works under this contract include:

Incineration Plant

- a) Sludge receiving, storage and feeding system
- b) Fluidized bed incinerators
- c) Waste heat recovery and power generation system
- d) Flue gas treatment system
- e) Ash storage and handling system
- f) Residue storage and handling system
- g) Fluidized bed sand storage and handling system
- h) Reagent reception and storage system
- i) Process control and monitoring system

Ancillary and supporting Facilities

- a) Weighbridge
- b) Site security
- c) Administration building
- d) Vehicle washing facilities
- e) Maintenance workshop and utility yard
- f) Drainage system
- g) Sewerage system
- h) Sewage treatment works
- i) Water supply system
- j) Deodorization system

Construction program for the captioned project is enclosed in Appendix 5.

Fugro Technical Services Ltd. – MateriaLab Division (MateriaLab) has been commissioned by the client as the Environmental Team which comprises the monitoring staff and the environmental auditor to undertake the environmental monitoring and audit work for this project. The project management structure and organization chart is shown in Appendix 6.

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The contact person and telephone numbers of key personnel for the captioned project are shown in Table 3.1.

Table 3.1 The Contact Persons and Telephone Numbers of Key Personnel

Company/Department	Role in the Contract	Contact Person	Telephone Number
VW-VES (HK) Limited	Contractor	Mr. Vincent Deleu	2253 2600
Environmental Protection Department	Employer	Mr. Alex Ng	2872 1800
Environmental Protection Department, EIAO	EIAO Officer	Mr. Thomas To	2835 1103
JACOBS	Employer Representative	Mr. Lesile Swann	2880 9788
Fugro Technical Services Ltd. – MateriaLab Division	Environmental Team	Mr. John Ho	2450 8233
BMT Asia Pacific Ltd.	Independent Environmental Checker	Ms. Claudine Lee	2241 9847

3.2. Summary of Environmental Monitoring and Audit (EM&A) Requirements

The EM&A program requires the monitoring of water quality prior to the commencement of and during the construction. A baseline report was prepared in December 2010 for the contract based on monitoring data acquired before the commencement of construction works.

Impact monitoring of water quality are to be undertaken at the designated monitoring stations. The monitored parameters are summarized in Table 3.2.

Action and Limit (AL) levels are established based on the data from the baseline report. Should the monitoring results indicate any non-compliance of AL levels, actions according to the Event / Action Plan in Appendix 7 are to be followed and appropriate environmental mitigation measures as in Appendix 8 are to be implemented to rectify the situation. The implementation status of mitigation measures is also shown in Appendix 8.

Impact ecology and visual survey are to be conducted at the construction area on regular basis. Monitoring parameters are tabulated in Table 3.2.

The Contractors (VW-VES (HK) Limited) is responsible for waste control within the construction site, removal of the waste material produced from the site and to implement any mitigation measures to minimize waste or redress problems arising from the waste from the site. The waste material may include any sewage, waste water or effluent containing sand, cement, silt or any other suspended or dissolved material to flow from the site onto any adjoining land, storm sewer, sanitary water, or any waste matter or refuse to be deposited anywhere within the site or onto any adjoining land.

The Contractor shall also pay attention to the Waste Disposal Ordinance, the Dumping at Sea Ordinance, the Public Health and Municipal Services Ordinance and the Water

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Pollution Control Ordinance, and carry out the appropriate waste management work. The relevant licence/permit, such as the effluent discharge licence, the chemical waste producer registration, etc. shall be obtained. The Contractor shall refer to the relevant booklets issued by EPD when applying for the licence/permit.

The environmental mitigation measures and status for waste management are summarized in Appendix 8.

Table 3.2 Summary of Monitored Parameters

Parameters	Monitored Items	Number of Stations	Frequency	Requirement
Marine water	<ul style="list-style-type: none"> • Cadmium • Chromium • Aluminium 	2 monitoring stations and 1 control station	Three days per week for mid-ebb and mid-flood tides during foundation piling of the STF.	<ul style="list-style-type: none"> • Sampling is taken at three water depths, namely, 1m below water surface, mid-depth and 1m above sea bed, except where the water depth be less than 6m, in which case the mid-depth station may be omitted. Shall the water depth be less than 3m, only the mid-depth station will be monitored.
Stream water	<ul style="list-style-type: none"> • pH • Turbidity • Suspended solids • Dissolved oxygen 	3 monitoring stations and 2 control stations	Three days per week for mid-ebb and mid-flood tides during site formation and foundation piling of the STF and construction of the access road.	<ul style="list-style-type: none"> • Two consecutive measurements of DO concentration, DO saturation, turbidity and pH are taken at mid-depth at each location. • Water samples for SS measurement is collected at the same depth at each location.
Ecology	<ul style="list-style-type: none"> • Site condition and Bird Monitoring 	Whole Middle Lagoon and 20 m from the boundary of the Lagoon	<ul style="list-style-type: none"> ▪ Monthly monitoring for avifauna. ▪ Habitat monitoring at least twice per month. ▪ Monthly Vegetation monitoring. 	<ul style="list-style-type: none"> • Avifauna and their behavior. • All birds seen and heard should be identified and counted. • Signs of breeding of birds. • Coverage of water and PFA filling activities in Middle Lagoon.
Landscape and Visual Impact	<ul style="list-style-type: none"> • All measures, including compensat 	East Lagoon	Biweekly	<ul style="list-style-type: none"> • Ensure compliance with the intended aims of the measures and the

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	ory planting, undertaken by both the Contractor and the specialist Landscape Sub-Contractor.			effectiveness of the mitigation measures.
Landfill gas	<ul style="list-style-type: none"> • Oxygen • Methane • Carbon dioxide 	Excavation, operation in chamber and confined space within the WENT Landfill Control Zone. (See Figure 3.2)	During the construction and operation	<ul style="list-style-type: none"> • Excavation between 300mm to 1 m deep: <ul style="list-style-type: none"> - Directly after the excavation has been completed. - Periodically whilst the excavation remains open. • Excavation deeper than 1m: <ul style="list-style-type: none"> - At ground surface before excavations commences. - Immediately before any worker enters the excavation - At the beginning of each working day for the entire period the excavation remains open - Periodically whilst the excavation remains open

3.3 Action and Limit Levels

Water Quality Limit

Environmental auditing on the monitoring data is to be undertaken based on the Action and Limit (AL) levels for water quality to check against any non-compliances.

The AL levels for monitored parameters are formulated from the baseline monitoring data. The AL levels for marine and stream water quality are tabulated in Table 3.3a.

Table 3.3a Action and Limit Levels for Marine and Stream Water Quality

Parameter	Action Level	Limit Level
DO in mg/L (mid-depth)	≤ 5.16	≤ 4
SS in mg/L (mid-depth)	≥ 41 or 120% of control station's SS on the same day of measurement	≥ 85 or 130% of control station's SS on the same day of measurement
Turbidity in NTU (mid-depth)	≥ 36.4 or 120% of control station's turbidity on the same day of measurement	≥ 78.9 or 130% of control station's turbidity on the same day of measurement
pH	pH ≤ 7.55 or pH ≥ 8.11	pH ≤ 6 or pH ≥ 9
Cadmium in µg/L	≥ 0.5	≥ 0.5
Chromium in µg/L	≥ 1	≥ 1
Aluminium in µg/L	≥ 20	≥ 20

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

After commencement of the impact monitoring, there were a lot of incident events recorded. The non-compliance of those incident events were mainly triggered the 120% and 130% of control station readings.

The measured salinity of all monitoring stations, i.e. W1, W2 and W3, from December 2010 indicates the Tsang Kok Stream is retaining the seawater back flushed from Deep Bay all the time. As a result, the water quality at Tsang Kok Stream is significantly subjected to the influence of the Deep Bay marine water. The original criteria stated in Table 3.3a, the "OR" condition, cannot reflect the actual situation of the Stream. With agreement with EIAO (see attached approval letter in Appendix 10), the criteria is revised to "AND" condition as listed in the following Table 3.3b effective on 3rd June 2011 and onwards.

Table 3.3b Action and Limit Levels for Marine and Stream Water Quality used after 3rd June 2011

Parameter	Action Level	Limit Level
DO in mg/L (mid-depth)	≤ 5.16	≤ 4
SS in mg/L (mid-depth)	≥ 41 AND 120% of control station's SS on the same day of measurement	≥ 85 AND 130% of control station's SS on the same day of measurement
Turbidity in NTU (mid-depth)	≥ 36.4 AND 120% of control station's turbidity on the same day of measurement	≥ 78.9 AND 130% of control station's turbidity on the same day of measurement
pH	pH ≤ 7.55 or pH ≥ 8.11	pH ≤ 6 or pH ≥ 9
Cadmium in µg/L	≥ 0.5	≥ 0.5
Chromium in µg/L	≥ 1	≥ 1
Aluminium in µg/L	≥ 20	≥ 20

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

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2. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Landfill Gas Limit

Depending on the results of the measurements, actions required will be vary and should be set down by the Safety Officer or other appropriately qualified person. The actions shown in Table 3.4 should be referred as the minimum requirements to be encompassed.

Table 3.4 Action Level for Landfill Gas measurement

Parameter	Measurement	Action
Oxygen	<19 %	▪ Ventilate to restore oxygen to >19 %
	<18 %	▪ Stop works ▪ Evacuate personnel/prohibit entry ▪ Increase ventilation to restore oxygen to >19 %
Methane	>10 % LEL (i.e. >0.5 % by volume)	▪ Prohibit hot works ▪ Ventilate to restore methane to <10 % LEL
	>20 % LEL (i.e. >1 % by volume)	▪ Stop works ▪ Evacuate personnel/prohibit entry ▪ Increase ventilation to restore methane to <10 % LEL
Carbon dioxide	>0.5 %	▪ Ventilate to restore carbon dioxide to <0.5 %
	>1.5 %	▪ Stop works ▪ Evacuate personnel/prohibit entry ▪ Increase ventilation to restore carbon dioxide to <0.5 %

4. Construction Phase Environmental Monitoring

The construction phase was commenced on 22/12/2010. During the construction phase, impact water quality monitoring for marine and stream is required. The monitoring locations are shown in Appendix 1.

4.1 Water Quality monitoring

4.1.1 Monitoring Methodology

Marine Water Quality

During the course of foundation piling of the STF, the impact conditions of marine water quality are measured at two monitoring stations and one control station with coordinates as shown in Appendix 1. The Environmental Team Leader shall agree with the IEC and EPD on all the monitoring stations.

During the course of foundation piling, impact monitoring shall be undertaken three days per week, at mid-flood and mid-ebb tides, with sampling and measurement at the designated monitoring stations.

Samples are to be taken at three water depths, namely 1m below water surface, mid-water and 1m above seabed at both mid-flood and mid-ebb tides, except where the water depth is less than 6m, the mid-depth station may be omitted. Should the water depth be less than 3m, only mid-depth will be monitored.

Water samples should be kept in chilled condition (~4°C) during delivery to laboratory and before commencement of the analysis. The parameters of laboratory analysis include Cadmium, Chromium and Aluminium. The method statements are shown in Table 4.1.

Table 4.1 Method Statements of Laboratory Analysis of Marine Water Quality

Parameters	Method	Detection limit, µg/L
Cadmium	USEPA method 6020A	0.5
Chromium		1
Aluminium		20

Stream Water Quality

Monitoring of pH, turbidity level (NTU), suspended solids level (mg/L), and dissolved oxygen (mg/L) are conducted at the designated locations including three monitoring stations and two control stations as shown in Appendix 1. The method statements are shown in Table 4.2.

Dissolved oxygen, turbidity and pH are measured *in-situ* while suspended solids content is determined in a HOKLAS accredited laboratory.

Impact monitoring is undertaken three days per week during mid-ebb and mid-flood tides.

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Table 4.2 Method Statements of Laboratory Analysis of Stream Water Quality

Parameters	Method	Detection limit, mg/L
Suspended solids	APHA, 18 th edition, 2540D	1

4.1.2 Monitoring Equipment

The equipment employed for the monitoring are presented in Table 4.3 and the calibration certificates are attached in Appendix 2.

Table 4.3 Water Quality Monitoring Equipment

Equipment	Model	Parameters Measured
Fieldwork – Marine Water Quality Monitoring		
Global positioning system (GPS)	Trimble Scout Master/Magellan Colotrak	Positioning
Echo sounder	Eagle Magna 3	Depth
Water sampler	Kahlsico 135WB153	Water sampling
Fieldwork – Surface Water Quality Monitoring		
pH meter	Hanna	pH
Dissolved oxygen meter	YSI 58 meter YSI 5739 probe YSI 5795A submersible stirrer	Dissolved oxygen Temperature
Salinity meter	YSI 30 meter/YSI 63 meter	Salinity
Turbidity meter	HACH 2100P	Turbidity
Water sampler	Kahlsico 135WB153/Pitcher	Water sampling
Laboratory Analysis		
Analytical balance	Ohaus AP210S	Suspended solids
Oven	WIB-Binder IP120	Suspended solids
Vacuum pump	GAST DOA-P104-BN	Suspended solids

4.1.3 Review of the Construction Phase Monitoring Programme

The schedule for the marine and stream water monitoring programme in the reporting period is shown in Table 4.4.

Table 4.4 Monitoring Schedule of Stream and Marine Water from 25th May to 24th June 2011

SUN	MON	TUE	WED	THU	FRI	SAT
			25 May	26 W M	27	28 W M
29	30	31 W M	1 June	2 W M	3	4 W M
5	6	7 W M	8	9 W M	10	11 W M
12	13	14 W M	15	16 W M	17	18 W M
19	20	21 W M	22	23* W	24	

Legend: W – Stream water quality monitoring at C1, C2, W1, W2 and W3. Three days per week.

M – Marine water quality monitoring at DM4, M1 and M2. Three days per week.

Remark: Marine monitoring on 23/06/2011 was cancelled due to typhoon signal No. 3 was hoisting.

4.1.4 Impact Water Quality Monitoring Result

The impact water quality monitoring data, laboratory results and QC data are shown in Appendix 3. The statistical analysis of the data is shown in Table 4.5. Graphical plot of average measurement is enclosed in Appendix 4. Results of all heavy metals content were less than detection limit, no graphical presentation for marine water quality results included.

During the course of the monitoring work, top layer PFA compaction, cut and fill operation, construction of EPC's office, piling works and excavation of sludge bunkers were observed within the project area.

Table 4.5 Water Quality Monitoring Result (25th May to 24th June 2011)

Location	Parameters	Maximum	Minimum	Mean
<i>Stream Water Quality Result</i>				
W1	Dissolved Oxygen (mg/L)	9.80	5.20	6.24
	Turbidity (NTU)	30.1	3.1	10.5
	pH	8.26	7.61	7.80
	Suspended Solids (mg/L)	35	4	12
W2	Dissolved Oxygen (mg/L)	10.91	5.21	6.62
	Turbidity (NTU)	53.6	4.9	15.8
	pH	8.35	7.56	7.78
	Suspended Solids (mg/L)	67	5	20
W3	Dissolved Oxygen (mg/L)	9.89	3.96	6.64
	Turbidity (NTU)	42.9	1.9	12.6
	pH	8.17	7.56	7.74
	Suspended Solids (mg/L)	53	4	18
<i>Marine Water Quality Result</i>				
M1	Cadmium (µg/L)	< 0.5	< 0.5	< 0.5
	Chromium (µg/L)	< 1	< 1	< 1
	Aluminium (µg/L)	< 20	< 20	< 20
M2	Cadmium (µg/L)	< 0.5	< 0.5	< 0.5
	Chromium (µg/L)	< 1	< 1	< 1
	Aluminium (µg/L)	< 20	< 20	< 20

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4.1.5 Summary of Non-compliances of the Environmental Quality Performance Limits from 25th May 2011 to 24th June 2011.

Stream Water Quality

45 events of non-compliance regarding pH, suspended solids and turbidity were recorded on various days from 25th May 2011 to 24th June 2011. Details are summarized in Table 4.6.

Table 4.6 Summary of Exceedances from 25th May to 24th June 2011

Date	Location	Parameters and measured levels
26/05/2011 09:34 to 10:11 (Mid-ebb)	W2	Turbidity: 5.9 NTU (Limit Level exceedance) C1: 5.9 NTU; C2: 3.4 NTU
		SS: 8 mg/L (Limit Level exceedance) C1: 4 mg/L; C2: 15 mg/L
26/05/2011 09:34 to 10:11 (Mid-ebb)	W3	Turbidity: 5.8 NTU (Limit Level exceedance) C1: 5.9 NTU; C2: 3.4 NTU
		SS: 8 mg/L (Limit Level exceedance) C1: 4 mg/L; C2: 15 mg/L
26/05/2011 14:05 to 14:45 (Mid-flood)	W1	Turbidity: 6.8 NTU (Limit Level exceedance) C2: 5.2 NTU
		SS: 10 mg/L (Limit Level exceedance) C2: 7 mg/L
26/05/2011 14:05 to 14:45 (Mid-flood)	W2	Turbidity: 11.7 NTU (Limit Level exceedance) C2: 5.2 NTU
		SS: 20 mg/L (Limit Level exceedance) C2: 7 mg/L
26/05/2011 14:05 to 14:45 (Mid-flood)	W3	Turbidity: 10.9 NTU (Limit Level exceedance) C2: 5.2 NTU
		SS: 14 mg/L (Limit Level exceedance) C2: 7 mg/L
28/05/2011 11:18 to 11:52 (Mid-ebb)	W1	Turbidity: 3.9 NTU (Limit Level exceedance) C2: 2.4 NTU
		SS: 5 mg/L (Limit Level exceedance) C2: 2 mg/L
28/05/2011 11:18 to 11:52 (Mid-ebb)	W2	Turbidity: 12.8 NTU (Limit Level exceedance) C2: 2.4 NTU
		SS: 15 mg/L (Limit Level exceedance) C2: 2 mg/L
28/05/2011 11:18 to 11:52 (Mid-ebb)	W3	Turbidity: 6.1 NTU (Limit Level exceedance) C2: 2.4 NTU
		SS: 8 mg/L (Limit Level exceedance) C2: 2 mg/L
28/05/2011 16:26 to 16:56 (Mid-flood)	W1	pH: 8.24 (Action Level exceedance) C2: 8.59
		Turbidity: 10.3 NTU (Limit Level exceedance) C2: 3.3 NTU
28/05/2011 16:26 to 16:56 (Mid-flood)	W2	pH: 8.34 (Action Level exceedance) C2: 8.59

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Date	Location	Parameters and measured levels
		Turbidity: 21.3 NTU (Limit Level exceedance) C2: 3.3 NTU
		SS: 32 mg/L (Limit Level exceedance) C2: 14 mg/L
28/05/2011 16:26 to 16:56 (Mid-flood)	W3	pH: 8.17 (Action Level exceedance) C2: 8.59
		Turbidity: 23.3 NTU (Limit Level exceedance) C2: 3.3 NTU
		SS: 43 mg/L (Limit Level exceedance) C2: 14 mg/L
31/05/2011 12:29 to 13:23 (Mid-ebb)	W1	Turbidity: 5.2 NTU (Limit Level exceedance) C2: 2.2 NTU
		SS: 6 mg/L (Limit Level exceedance) C2: 1 mg/L
31/05/2011 12:29 to 13:23 (Mid-ebb)	W2	Turbidity: 11.0 NTU (Limit Level exceedance) C2: 2.2 NTU
		SS: 8 mg/L (Limit Level exceedance) C2: 1 mg/L
31/05/2011 12:29 to 13:23 (Mid-ebb)	W3	Turbidity: 14.5 NTU (Limit Level exceedance) C2: 2.2 NTU
		SS: 35 mg/L (Limit Level exceedance) C2: 1 mg/L
31/05/2011 16:22 to 16:58 (Mid-flood)	W1	Turbidity: 11.6 NTU (Limit Level exceedance) C2: 3.2 NTU
		SS: 15 mg/L (Limit Level exceedance) C2: 9 mg/L
31/05/2011 16:22 to 16:58 (Mid-flood)	W2	Turbidity: 19.6 NTU (Limit Level exceedance) C2: 3.2 NTU
		SS: 39 mg/L (Limit Level exceedance) C2: 9 mg/L
02/06/2011 13:31 to 14:07 (Mid-ebb)	W1	Turbidity: 7.4 NTU (Limit Level exceedance) C2: 1.8 NTU
		SS: 11 mg/L (Limit Level exceedance) C2: 3 mg/L
02/06/2011 13:31 to 14:07 (Mid-ebb)	W2	Turbidity: 11.6 NTU (Limit Level exceedance) C2: 1.8 NTU
		SS: 16 mg/L (Limit Level exceedance) C2: 3 mg/L
02/06/2011 13:31 to 14:07 (Mid-ebb)	W3	Turbidity: 13.4 NTU (Limit Level exceedance) C2: 1.8 NTU
		SS: 17 mg/L (Limit Level exceedance) C2: 3 mg/L
02/06/2011 08:40 to 09:17 (Mid-flood)	W2	SS: 8 mg/L (Limit Level exceedance) C2: 5 mg/L
11/06/2011 15:20 to 15:50 (Mid-flood)	W2	Turbidity: 52.8 NTU (Action Level exceedance)

Date	Location	Parameters and measured levels
		C2: 2.2 NTU
		SS: 62 mg/L (Action Level exceedance) C2: 7 mg/L
11/06/2011 15:20 to 15:50 (Mid-flood)	W3	Turbidity: 41.3 NTU (Action Level exceedance) C2: 2.2 NTU
		SS: 49 mg/L (Action Level exceedance) C2: 7 mg/L

4.1.6 Review of the Events Non-compliance

4.1.6.1 Marine Water Quality Monitoring

Full compliance was achieved in the reporting period.

4.1.6.2 Stream Water Quality Monitoring

Construction works, include setup of EPC’s office, cut and fill operation, piling and excavation of sludge bunkers were in progress throughout the reporting period at the North part of the Lagoon and far away from the Tsang Kok Stream. The stream water quality was at the similar level as that before the piling work. The exceedance was not caused by the construction activity and was due to low suspended solids content and turbidity recorded at control station, C2.

One event of exceedance related to turbidity and suspended solids are higher than A/L level derived from baseline data at mid-flood on 11th June 2011. Events were recorded at W1 and W2 that was influent by Deep Bay marine water and not construction activities related.

One event of exceedance of pH were recorded at mid-flood on 28th May 2011 at various location, the exceedance was subjected to influent of high pH from upstream of the Tsang Kok stream.

The exceedance was unrelated to the construction works, hence the ad-hoc monitoring was cancelled.

The Incident Report on Action and Limit Level Non-compliance is attached in Appendix 9.

4.2. Landfill Gas Monitoring

4.2.1 Monitoring methodology

4.2.1.1 Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface.

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Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area.

4.2.1.2 For excavations deeper than 1m, measurements should be carried out:-

- at the ground surface before excavation commences;
- immediately before any worker enters the excavation;
- at the beginning of each working day for the entire period the excavation remains open; and
- periodically through out the working day whilst workers are in the excavation.

4.2.1.3 For excavations between 300mm and 1m deep, measurements should be carried out:

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open

4.2.1.4 For excavations less than 300mm and 1m deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person.

4.2.1.5 Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. As a minimum these should encompass those actions specified in Table 3.4

4.2.2 Monitoring equipment

Table 4.7 Landfill Gas Monitoring Equipment

Equipment	Model	Parameters Measured
Fieldwork – Landfill Gas Monitoring		
Landfill Gas Analyzer	RAE QRAE II Multi-gas Detector	Methane, oxygen, carbon dioxide

4.2.3 Monitoring result

No excavation or confined space operation in progress inside the WENT Landfill consultation Zone in the reporting period. Monitoring of landfill gas was not required.

4.3 Ecological Monitoring

4.3.1 Piling activities commenced on 21st February 2011 and monitoring surveys are to be conducted weekly during these operations. Accordingly, four monitoring visits were conducted on 3rd, 9th, 16th and 23rd June 2011 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. Following heavy rainfall in late May and early June, large areas of standing water are now present in land in the southern part of the east lagoon. Two Little Grebes were observed in this area on 16th June, though no signs of breeding were observed on this date and on subsequent site visit (23rd June). Despite these birds being within 50m of piling operations on the active construction site, they displayed no signs of disturbance to these construction processes. No observations of disturbance through construction piling to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during June 2011.

4.3.2 Monthly monitoring of avifauna and their notable behaviour, such as breeding activities in the Middle Lagoon, was conducted on 23rd June 2011. The Monitoring Area included the whole Middle Lagoon and area extending 20 m from the boundary of the Lagoon (see Figure 4.1). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

4.3.3 The list of bird surveys recorded from the survey conducted on 23rd June 2011 can be seen in Table 4.8. Four Little Grebe nests were observed nesting in the southwestern corner of the Middle Lagoon on 23rd June; these observations are all over 400m from the STF site boundary (see Figure 4.1). On that date the coverage of water in the Middle Lagoon was approximately 50%. PFA filling activities were recorded on the 16th June in the Middle Lagoon on any of the site visits with the bund on the southern limit being extended with a single backhoe in operation with PFA fill being brought in by several trucks from excavation work in the west lagoon.

Table 4.8 Bird Species observed during Monthly Monitoring Surveys in June 2011

Survey date: 23/06/2011			
Species Name	Scientific Name	Middle Lagoon	Notable/Breeding Activity
Little Grebe	<i>Tachybaptus ruficollis</i>	14	Four nests in the SW corner of Lagoon. Other pairs holding territory
Little Egret	<i>Egretta garzetta</i>	3	None observed
Yellow Bittern	<i>Ixobrychus sinensis</i>	2	Two adults - potential breeding
Chinese Francolin	<i>Francolinus pintadeanus</i>	1	Calling
Watercock	<i>Gallicrex cinerea</i>	1	Male in breeding condition in habitat suitable

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Survey date: 23/06/2011			
			for breeding - Unusual HK record
Little Ringed Plover	<i>Charadrius dubius</i>	2	Suspected Breeding
Spotted Dove	<i>Streptopelia chinensis</i>	1	None observed
Large Hawk Cuckoo	<i>Hierococcyx sparveriodes</i>	1	Calling
Common Koel	<i>Eudynamys scolopacea</i>	1	Calling
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	None observed
Barn Swallow	<i>Hirundo rustica</i>	100	None observed
White Wagtail	<i>Motacilla alba</i>	2	Adult with Juvenile
Chinese Bulbul	<i>Pycnonotus sinensis</i>	4	None observed
Long-tailed Shrike	<i>Lanius schach</i>	1	None observed
Masked Laughingthrush	<i>Garrulax perspicillatus</i>	1	None observed
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	None observed
Red-billed Starling	<i>Sturnes sericeus</i>	21	Adult with Juvenile - unusual HK Record
Crested Myna	<i>Acridotheres cristatellus</i>	18	Adult with Juvenile
Hair-crested Drongo	<i>Dicrurus hottentottus</i>	3	Adult with Juvenile
Common Magpie	<i>Pica pica</i>	1	None observed
Total Numbers		179	
Total Species		20	

4.4. Landscape and Visual Impact Monitoring

The landscape and visual impact assessment of the EIA Study recommended a series of mitigation measures to ameliorate the landscape and visual impacts of the Project. The measures for the construction phase as recommended in the EIA Report are summarized in Table 4.9.

Site inspections for the monthly EM & A Record for Landscape and Visual Impact (June 2011) were undertaken on 10th and 22nd of June 2011. Observation of the implementation of proposed landscape and visual mitigation measures are summarized in Table 4.9.

Table 4.9 Record of Implementation of the Proposed Landscape and Visual Mitigation Measures in Construction Phase (June 2011)

ID No.	Nature / Type	Landscape and Visual Mitigation Measures	Status (June 2011)	Remarks
CM1	Site Practice	Topsoil, where identified, should be stripped and stored for re-use in the	Not applicable.	The topsoil was PFA which is not suitable for re-use in the soft

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		construction of the soft landscape works, where practical.		landscape works. Suitable topsoil will be imported for planting during landscape planting phase.
CM2	Site Practice	Existing trees to be retained on site should be carefully protected during construction.	Second part of the Tree Felling Application has been approved by DLO and tree felling work has commenced since the approval. Proper procedures of tree felling have been observed during the process.	Photographic record of the fell tree are shown in Table 4.10.
CM3	Design/Construction Planning	Trees unavoidably affected by the works should be transplanted where practical.	In progress.	Trees to be transplanted are proposed in the tree felling application to be submitted to DLO. Transplant work has not commenced yet.
CM4	Design/Construction Planning	Compensatory tree planting should be provided to compensate for felled trees	In progress.	Compensatory tree planting is proposed for any trees to be felled in the tree felling application.
CM5	Site Practice	Control of night-time lighting	Not applicable.	No night time work was implemented in June 2011.
CM6	Design/Construction Planning	Erection of decorative screen hoarding compatible with the surrounding setting	Completed	Erection of decorative screen hoarding has been set up along the site boundary.

CM1 - Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. Topsoil found within the project site is PFA, which consist of heavy metals and toxic contaminants that it is not suitable to be re-used as soil mix for landscape softwork. Suitable topsoil will be imported for planting during landscape planting phase.

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CM2 - Existing trees to be retained on site should be carefully protected during construction.

In general the existing trees are being fenced off on site and they are in healthy condition. The Tree felling work approved under the Phase 1 and 2 tree felling application has commenced. Proper procedures of tree felling have been observed. The tree felling works should not cause damages to the existing trees on site. Photographic records of the fell trees are shown in Table 4.10.

CM3 - Trees unavoidably affected by the works should be transplanted where practical. A number of trees are identified to be unavoidably affected by the works in the tree survey and some of them are proposed to be transplanted instead of felling in the tree felling application. The first phase of Tree Felling application has been approved by DLO and tree felling work has commenced since 1 May 2011 and the second phase of Tree Felling application has been approved by DLO and tree felling work has commenced since 18 May 2011

CM4 - Compensatory tree planting should be provided to compensate for felled trees
Compensatory tree planting is proposed for any trees to be felled in the in the tree felling application. The compensatory tree planting has been incorporated with the details of the landscape master plan.

CM5 - Control of night-time lighting

No night time work was implemented in June 2011 and thus no night time lighting was used.

CM6 - Erection of decorative screen hoarding compatible with the surrounding setting

Construction of decorative screen hoarding compatible with the surrounding setting has been set up in January 2011.



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Table 4.10 Photographic Record of Landscape and Visual Impact Survey

1. Photographic record of the fell trees	
	
<p>Tree felling work has commenced since approval of Phase 1 and 2 tree felling application</p>	<p>Tree felling work has commenced since approval of Phase 1 and 2 tree felling application. The soil has been restored after the tree felling work.</p>

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5. Construction Site Environmental Audit

Site Audit

Site audit is necessary to ensure:

- No unacceptable practice on site;
- Identification of potential impacts associated with construction activities;
- Implementation of additional mitigation measures if necessary.

Environmental Site Audit has been conducted on 30th May 2011, 9th, 16th and 24th June 2011.

During the reporting period, as far as the site operation was concerned, cut and fill operation, construction of EPC's office, piling work and excavation of sludge bunkers at plant A & B were in progress.

Regarding the air quality, access road were watered regularly by water truck or water sprinklers. Most of the site area has been covered by backfill material or coarse asphalt/aggregate. Moisture content of backfill materials and PFA stockpile had to be kept at the designed level before backfilling operation, watering was not carried out at those areas. Contractor should follow the good site practice to minimize the pulverized fuel ash from blowing up from dried surface.

With respect to water quality monitoring, two temporary water detention basins have been constructed at the North of the Lagoon near the ER's office and North-East corner of the site respectively. If there is any wastewater generated which will be pumped into the basins and will not be discharged out of the site. Construction of drainage system is in progress. Silt removal/treatment facilities has been setup and in operation. Monthly testing of the effluent is scheduled for submission to EPD.

Major Observation of Site Audit

▪ Air quality

In general, the Contractor implemented the required measures; such as minimize open surface, covered open stockpiles, regular watering of the access road. For cut and fill operation of PFA in the site area, the excavated materials had been compacted by roller and the moisture content is controlled to fulfilled the backfill requirement. No dusty surface was observed

▪ Noise

Quality Powered Mechanical Equipments were employed and located away from the Middle Lagoon. According to ecologist's comment, the noise generated by the piling works did not cause any adverse impact to the wildlife in the Middle Lagoon as concern. However, closely monitor will be conduct from time to time to ensure the operation will not disturb the habitats of the wildlife.

▪ Water quality

Piling was carried out during the reporting period. No construction wastewater was produced and discharged during the period.

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Waste Management

- C&D Waste** Backfill, piling and excavation works were conducted during the reporting period. C&D waste was generated from the current activities and sent to public fill.
- General refuse** General refuse including paper/cardboard, metal and plastic was collected by registered collector and sent to WENT landfill.
- Chemical Waste** 105 kg solid chemical waste was generated during the reporting period and collected by licensed contractor.
- Wastewater** Rain water was treated by the silt removal facilities before discharged outside the site. Waste was collected by licensed collector.

Table 5.1 Waste Flow Summary

Type of Waste	Quantity Generated in reporting period	Cumulative quantity during construction period
Inert C&D waste	1,551,595 m ³	1,551,946 m ³
Chemical waste (Liquid)	NIL	200 L
Chemical waste (Solid)	105 kg	455 kg
Metal	247,666 kg	247,686 kg
Paper/cardboard Packaging	982 kg	3,232 kg
Plastic	14 kg	35 kg
Others, e.g. general refuse	153.425 m ³	624.956 m ³

Remarks: Density of Inert C&D waste and general refuse is 1.9 tonne/m³ and 1.6 tonne/m³ respectively

Impact Predication Review

In July 2011, construction of EPC's office, piling, backfill of soil and excavation of sludge bunkers at plant A & B will be conducted. It is expected that these operation will not impose significant air, noise and water quality impact to the sensitive receivers. Nevertheless, necessary mitigation measures should be deployed when needed.

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6. Summary of Complaints, Summons and Successful Prosecutions

No complaints, summons and successful prosecutions in association with the construction activities concerning the environmental protection and pollution control were received in the reporting period.

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7. Works Program for July 2011

The following major construction works will be in progress in July 2011:

1. Construction of EPC's site office is in progress and will be completed by early July 2011;
2. Backfill and piling at three to four areas with different backfill/compaction design;
3. Excavation of sludge bunkers at plant A & B.

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8. Monitoring Schedule for July 2011

The monitoring schedule for July 2011 is shown in Table 8.1.

Table 8.1 Monitoring Schedule for July 2011

SUN	MON	TUE	WED	THU	FRI	SAT
						25 W June M
26	27	28 W M	29	30 W M	1 July	2 W M
3	4	5 W M	6	7 W M	8	9 W M
10	11	12 W M	13	14 W M	15	16 W M
17	18	19 W M	20	21 W M	22	23 W M
24	25	26 W M	27	28 W M	29	30 W M
31						

Legend: W - Water quality monitoring at C1, C2, W1, W2 and W3. Three days per week.

M - Water quality monitoring at DM4, M1 and M2. Three days per week.

Remarks: 1st July is public holiday.

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9. Comments and Conclusions for the reporting period

In this reporting period, i.e. 25th May to 24th June 2011, cut and fill operation at the foundation of treatment facilities building A & B, piling and excavation of sludge bunkers were in progress. The site activities did not lead to any significant impact to noise, air quality, stream and marine water quality.

There were 45 events of Action/Limit Level exceedances reported from 25th May to 24th June 2011. The cause of the exceedance related to turbidity and suspended solids content was mainly due to the low turbidity and suspended solids content of control station, C2. One event of pH exceedance were reported in the reporting period that was influent by high pH from upstream. All the events were not related to the construction activities.

Contractor shall ensure proper site practices to be implemented to avoid any deterioration of the environment around the construction site. Although there is no sensitive receivers for noise and air quality close to the site area, mitigation measures to minimize dust and noise generated from site activities should be enforced.

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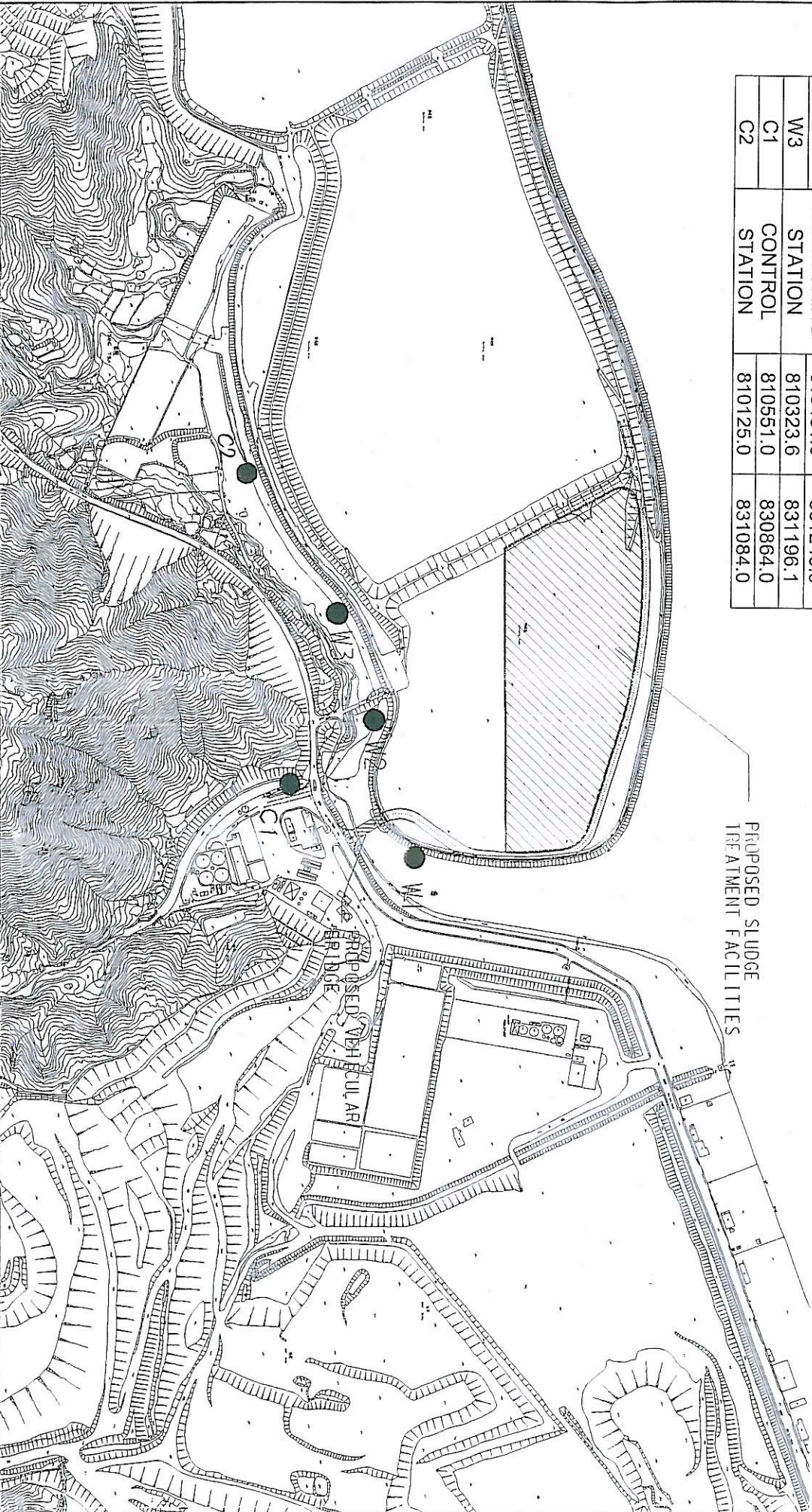
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Appendix 1

Water Quality Monitoring Location

LOCATIONS OF STREAM
WATER QUALITY MONITORING STATIONS

STATION	DESCRIPTION	EASTING	NORTHING
W1	IMPACT MONITORING	810639.3	831296.8
W2	STATION	810461.6	831243.9
W3	STATION	810323.6	831196.1
C1	CONTROL STATION	810551.0	830864.0
C2	STATION	810125.0	831084.0



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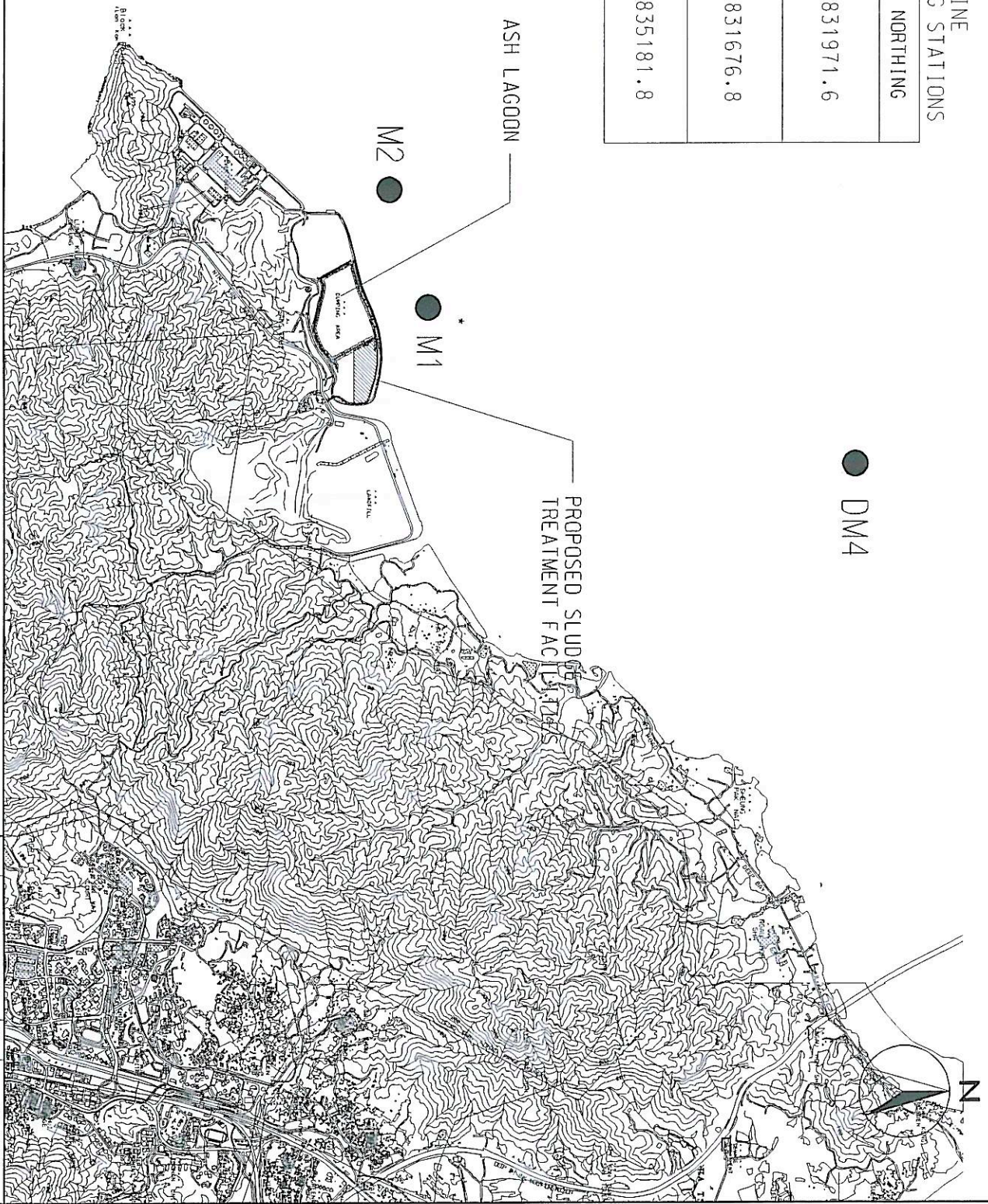
AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
LOCATION OF WATER QUALITY MONITORING STATIONS

(Sheet 1 of 2)

SCALE	DATE	SCALE	DATE
A3 1:5000	JUN 2008	A3 1:5000	JUN 2008
CHECK	AKYC	DRAWN	LHWI
JOB NO.	60039510	DRAWING NO.	FIGURE 5.1
		REV	

LOCATIONS OF MARINE
WATER QUALITY MONITORING STATIONS

STATION	EASTING	NORTHING
M1 (IMPACT MONITORING STATION)	809915.3	831971.6
M2 (IMPACT MONITORING STATION)	809026.4	831676.8
DM4 (CONTROL STATION)	811092.2	835181.8



MAUNSELL | **AECOM**
Meredith & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
LOCATION OF WATER QUALITY MONITORING STATIONS

(Sheet 2 of 2)

SCALE	DATE	DRWING NO.	REV
A3 1:30000	JUN 2008	LMW1	-
CHECK JOB NO.	AK YC	60039510	FIGURE 5.1

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Appendix 2

Equipment Calibration Certificates

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Report No. : 921438WA110559(1)



Page 1 of 2

REPORT ON CALIBRATION OF SALINITY/CONDUCTIVITY METER

Information Supplied by Client

Client : Fugro Technical Services Limited – Materialab Division –
Environmental

Client's address : Fugro Development Centre, 5 Lok Yi St.,
17 M.S. Castle Peak Road, Tuen Mun, N.T.

Project : Routine Calibration

Sample description : One salinity/conductivity meter YSI model 30

Client sample ID : Serial No. 03A0686 (E-001-17)

Test required : Calibration of the submitted salinity/conductivity meter

Laboratory Information

Lab. sample ID : WA110559/2

Date sample received : 01/04/2011

Date of calibration : 02/04/2011

Next calibration date : 02/07/2011

Test method used : Ref. Operation Manual of YSI model 30

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 921438WA110559(1)

Page 2 of 2

Results:**A. Calibration of Conductivity Meter**

Temperature, °C	Conductivity, µmhos/cm			
	Theoretical	Measured	Deviation	Maximum acceptable deviation
25	-	-	-	± 70
25	-	-	-	±400
25	-	-	-	±700
25	-	-	-	±1200

B. Calibration of Salinity Meter

Salinity, ‰			
Theoretical	Measured	Deviation	Maximum acceptable deviation
10	10.0	0.0	± 0.5
20	19.9	-0.1	± 1.0
30	29.8	-0.2	± 1.5
40	39.2	-0.8	± 2.0

C. Calibration of Temperature Sensor

Thermometer Reading, °C	Meter Reading, °C	Maximum acceptable deviation, °C
21.1	20.0	± 0.5

D. Conclusion

The instrument is found to be acceptable for use of salinity.

**** End of Report ****

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 6/4/2011

Note : This report refers only to the sample(s) tested.

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Report No. : 921438WA110559



Page 1 of 2

REPORT ON CALIBRATION OF D.O. METER

Information Supplied by Client

Client : Fugro Technical Services Limited – Materialab Division –
Environmental

Client's address : Fugro Development Centre, 5 Lok Yi St.,
17 M.S. Castle Peak Road, Tuen Mun, N.T.

Project : Routine Calibration

Sample description : One Dissolved Oxygen Meter YSI model 58

Client sample ID : Serial No. 99B0937 (E-004-21)

Test required : Calibration of the submitted D.O. meter

Laboratory Information

Lab. sample ID : WA110559/1

Date sample received : 01/04/2011

Date of calibration : 01/04/2011

Next calibration date : 01/07/2011

Test method used : Ref. Operation Manual of D.O. meter YSI model 58

Note : This report refers only to the sample(s) tested.

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Report No. : 921438WA110559

Page 2 of 2

Results:1. Dissolved Oxygen Meter Calibration Data

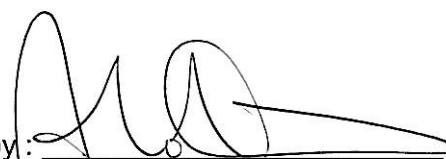
Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.26	8.36
2	8.40	8.44
3	8.40	8.60
Average	8.35	8.47

2. Temperature

Thermometer reading, °C	Meter reading, °C
20.0	19.6

Remark : Dissolved oxygen content measured by the D.O. meter was found to comply with that determined by Winkler Titration. Therefore, the meter is found to be acceptable for use.

** End of Report **

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 6/4/2011*Note : This report refers only to the sample(s) tested.*

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MateriaLab

Report No. : 921438WA110694



Page 1 of 2

REPORT ON CALIBRATION OF TURBIDIMETER

Information Supplied by Client

Client : Fugro Technical Services Limited – MateriaLab Division – Environmental

Client's address : Fugro Development Centre, 5 Lok Yi St.,
17 M.S. Castle Peak Road, Tuen Mun, N.T.

Project : Routine Calibration

Sample description : One Turbidimeter, HACH Model 2100P

Client sample ID : Serial No. 961200012790 (E-047- 4)

Test required : Calibration of the submitted Turbidimeter

Laboratory Information

Lab. sample ID : WA110694/1

Date sample received : 18/04/2011

Date of calibration : 20/04/2011

Next calibration date : 20/07/2011

Test method used :

1. Three standard turbidity solutions with 20 NTU, 100 NTU and 800 NTU were prepared.
2. After the blank zero was set, the meter was calibrated against the standard solutions.
3. The gelex secondary standard with 0.00 – 9.99 NTU was inserted and the reading of this gelex standard was recorded. Same steps were repeated for 10 – 99.9 NTU and 100 – 1000 NTU gelex standards.

Note : This report refers only to the sample(s) tested.

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Report No. : 921438WA110694

Page 2 of 2

Results:

Calibrated Values of Secondary Gelex Standards

Auto-programmed Turbidity Standard Range	0.00-9.99 NTU, Gelex Vial	10-99.9 NTU, Gelex Vial	100-1000 NTU, Gelex Vial
Calibrated Value of the Secondary Standard, N.T.U.	5.17	48.2	434

Checking of sample cell condition using filtered ultra-pure water

Turbidity of procedural blank, NTU	
Our sample cell	Client's sample cell
0.27	0.50

- Remarks:
1. Procedural blank of client's sample cell >0.2 NTU, the cell is no longer for low turbidity (<1 NTU) measurement
 2. If the reading of secondary standard was not within $\pm 5\%$ of the calibrated value, the instrument should be recalibrated with formazin primary standards.

****End of Report****Supervised by : Y. M. ChungCertified by : Approved Signatory : HO Kin Man, John
Manager – Chemical & EnvironmentalDate : 3/5/2011*Note : This report refers only to the sample(s) tested.*

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MaterialLab

Report No. : 921438WA111219



Page 1 of 2

REPORT ON CALIBRATION OF TURBIDIMETER

Information Supplied by Client

Client : Fugro Technical Services Limited – MaterialLab Division – Environmental

Client's address : Fugro Development Centre, 5 Lok Yi St.,
17 M.S. Castle Peak Road, Tuen Mun, N.T.

Project : Routine Calibration

Sample description : One Turbidimeter, HACH Model 2100P

Client sample ID : Serial No. 010800023055 (E-047- 13)

Test required : Calibration of the submitted Turbidimeter

Laboratory Information

Lab. sample ID : WA111219/1

Date sample received : 23/06/2011

Date of calibration : 23/06/2011

Next calibration date : 23/09/2011

Test method used :

1. Three standard turbidity solutions with 20 NTU, 100 NTU and 800 NTU were prepared.
2. After the blank zero was set, the meter was calibrated against the standard solutions.
3. The gelex secondary standard with 0.00 – 9.99 NTU was inserted and the reading of this gelex standard was recorded. Same steps were repeated for 10 – 99.9 NTU and 100 – 1000 NTU gelex standards.

Note : This report refers only to the sample(s) tested.

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Report No. : 921438WA111219

Page 2 of 2

Results:

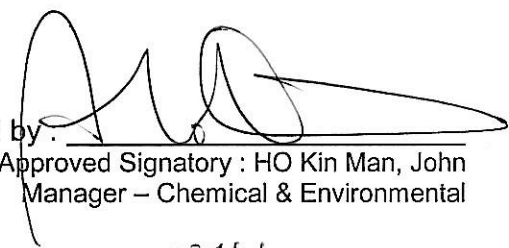
Calibrated Values of Secondary Gelex Standards

Auto-programmed Turbidity Standard Range	0.00-9.99 NTU, Gelex Vial	10-99.9 NTU, Gelex Vial	100-1000 NTU, Gelex Vial
Calibrated Value of the Secondary Standard, N.T.U.	4.64	58.5	541

Checking of sample cell condition using filtered ultra-pure water

Turbidity of procedural blank, NTU	
Our sample cell	Client's sample cell
0.07	0.20

Remarks: If the reading of secondary standard was not within $\pm 5\%$ of the calibrated value, the instrument should be recalibrated with formazin primary standards.

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 28/6/2011

End of Report

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 921437CA110375

Page 1 of 1

CALIBRATION RECORD OF WHIRLING PSYCHROMETER**Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Calibration Item - Description : Whirling psychrometer
Serial no. : 02586 (Dry Bulb)
02010 (Wet Bulb)
Equipment ID. : E-092-10

Specification limit : According to full checking report no.: 921436CA101642 , Correction at 25.0°C.

Shall be Within -0.3 °C and 0.7 °C for dry bulb, -0.3 °C and 0.7 °C for wet bulb.

Laboratory Information

Calibrating Equipment - Description : Reference thermometer
Equipment ID. : R-053-2

Date of Calibration : 15-Mar-2011 Ambient Temperature : 22 °C

Calibration location : Calibration Laboratory of MateriaLab

Method used : In-house Method R-C-076

In-house testing procedure no. : R-C-076

Calibration Results : (All values are in the unit of °C.)

Test temperature		25.0	--	--	--	--
Ref. Thermometer ID.		R-053-2	--	--	--	--
Correction of Ref. Thermometer at test temperature, C		-0.003	--	--	--	--
Variation of Ref. Thermometer reading in 20sec.	Maximum	25.003	--	--	--	--
	Minimum	25.000	--	--	--	--
Average between Max. & Min., A		25.002	--	--	--	--
Corrected temperature, (A + C), Ra		24.999	--	--	--	--
Dry Bulb	Indicated temperature, Rd	24.9	--	--	--	--
	Correction, Ra - Rd	0.1	--	--	--	--
Wet Bulb	Indicated temperature, Rw	24.8	--	--	--	--
	Correction, Ra - Rw	0.2	--	--	--	--

Remark :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The discrimination of the equipment under test is 0.1 °C (1/5 division).
3. The equipment being calibrated does comply with the specification limit.
4. Recommended next calibration date (6 months, In-house specification) : 15-Sep-2011 .

Tested by : HC Date : 15-Mar-2011 Checked by : [Signature] Date : 17-3-2011
C.H. Chan

CA-W-182 (30/07/98)

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, black, sans-serif font. The text is centered between two thick, horizontal black bars, one above and one below the text.

Appendix 3

Stream and Marine Water Quality Monitoring Data

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MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

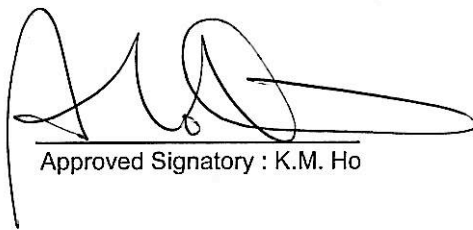
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 26/05/2011 (a.m.) Test No. : 76
 Tide State : MID-EBB Weather : SUNNY
 Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	9:34	27	0.5	24.1	21.2	5.47	73.9	3.06	7.66	4	
				24.2	21.0	5.40	73.0	3.37	7.65	4	
W2	10:11	28	0.1	25.4	17.0	5.29	71.6	5.68	7.60	7	
				25.1	16.7	5.21	70.5	6.09	7.59	8	
W3	9:53	28	0.4	24.8	13.4	6.88	89.6	5.80	7.65	8	
				24.9	12.5	6.93	90.2	5.77	7.64	7	
C1	10:42	30	0.1	29.9	0.2	8.68	114.5	5.74	8.73	3	
				29.8	0.2	8.60	113.6	6.00	8.79	4	
C2	10:28	29	0.1	27.0	4.9	10.40	134.4	3.47	7.87	10	
				26.9	5.0	10.49	135.6	3.38	7.89	20	

Certified by :



Approved Signatory : K.M. Ho

Date :

3/6/2011

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 Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

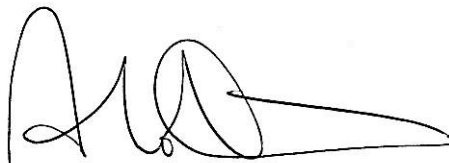
Field Data Record (Stream Water)

Date : 26/05/2011 (p.m.)
 Tide State : MID-FLOOD
 Site Condition : NORMAL

Test No. : 76
 Weather : SUNNY

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	14:05	30	0.6	28.4	20.2	5.93	86.0	6.95	7.69	12	No Water
				28.2	20.6	5.94	86.2	6.70	7.72	8	
W2	14:45	31	0.1	28.6	21.2	6.70	97.6	12.3	7.87	22	
				28.4	21.6	6.56	95.4	11.1	7.89	17	
W3	14:29	31	0.6	28.3	19.3	6.95	99.7	11.4	7.90	14	
				28.5	19.0	7.15	102.3	10.3	7.91	14	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	14:58	29	0.1	32.2	4.8	11.51	162.4	5.32	8.58	8	
				32.6	4.7	11.29	160.1	5.10	8.56	5	

Certified by :



Approved Signatory : K.M. Ho

Date :

31/6/2011

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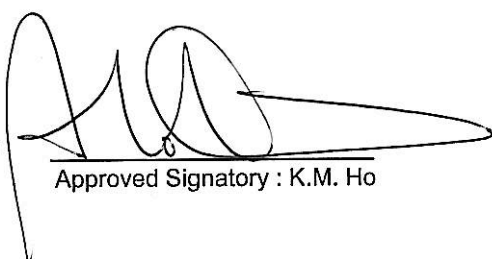
Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 28/05/2011 (a.m.) Test No. : 77
Tide State : MID-EBB Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	11:18	30	0.5	27.6	24.5	5.88	86.5	3.76	7.87	5	No Water
				27.3	24.1	5.74	83.6	3.95	7.87	5	
W2	11:52	31	0.1	28.5	20.7	7.96	115.1	13.2	7.90	10	
				28.3	20.9	8.13	117.2	12.4	7.97	20	
W3	11:36	32	0.4	28.5	19.5	9.89	142.7	5.90	8.03	6	
				28.5	20.1	9.82	141.8	6.27	8.04	9	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	12:07	30	0.1	29.8	10.2	10.30	144.8	2.48	7.88	2	
				29.7	10.2	10.32	145.1	2.39	7.90	2	

Certified by :  Date : 8/6/2011
Approved Signatory : K.M. Ho

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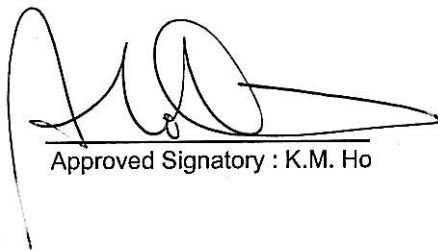
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 28/05/2011 (p.m.) Test No. : 77
 Tide State : MID-FLOOD Weather : SUNNY
 Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	16:26	32	0.4	29.7	23.7	9.80	148.1	10.6	8.22	13	No Water
				29.7	23.8	9.49	142.2	10.0	8.26	15	
W2	16:56	33	0.1	30.5	23.1	10.78	163.8	21.3	8.33	32	
				30.4	23.1	10.91	165.5	21.2	8.35	31	
W3	16:42	33	0.4	29.9	21.0	9.12	136.2	22.4	8.17	47	
				29.8	21.2	9.23	137.6	24.2	8.17	38	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	17:11	30	0.1	30.2	8.0	10.19	142.4	3.17	8.58	13	
				30.2	8.1	9.94	140.8	3.34	8.60	14	

Certified by :



Approved Signatory : K.M. Ho

Date : 8/6/2011

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MateriaLab

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Client : VW-VES (HK) Ltd.

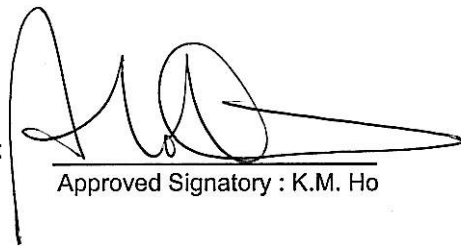
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 31/05/2011 (a.m.) Test No. : 78
Tide State : MID-EBB Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	13:02	32	0.3	28.3	22.9	7.66	113.4	5.41	7.89	6	No Water
				28.2	22.9	7.80	115.1	5.03	7.90	6	
W2	12:29	33	0.1	28.5	21.6	8.21	119.8	11.7	7.85	8	
				28.2	21.2	8.31	120.8	10.3	7.83	8	
W3	13:23	33	0.2	29.0	17.4	7.43	106.8	15.5	7.69	27	
				29.2	17.6	7.79	111.7	13.4	7.76	42	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	12:43	31	0.1	29.0	14.3	9.83	139.4	2.28	7.78	1	
				29.0	14.3	10.26	144.8	2.19	7.80	1	

Certified by



Approved Signatory : K.M. Ho

Date

8/6/2011

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MaterialLab

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Client : VW-VES (HK) Ltd.

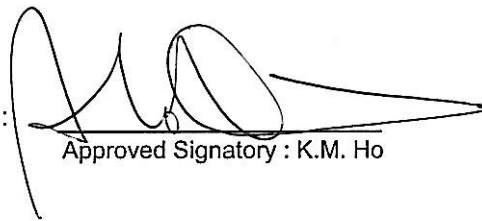
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 31/05/2011 (p.m.) Test No. : 78
Tide State : MID-FLOOD Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	16:40	31	0.1	28.1	23.9	8.20	120.2	11.7	8.01	15	No Water
				27.8	23.7	8.00	117.2	11.4	8.04	15	
W2	16:22	32	0.1	27.3	17.7	7.01	100.0	20.7	7.79	39	
				27.5	17.7	7.26	102.8	18.5	7.85	38	
W3	16:58	31	0.1	27.2	16.5	8.18	114.9	2.02	7.97	4	
				27.0	16.8	8.24	115.2	1.94	7.99	6	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	17:15	31	0.1	27.7	12.4	9.78	134.3	3.34	8.04	4	
				27.6	12.3	9.82	135.0	3.10	8.00	13	

Certified by :



Approved Signatory : K.M. Ho

Date :

8/6/2011

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MaterialLab

Our Ref. No. : 100440EN110891

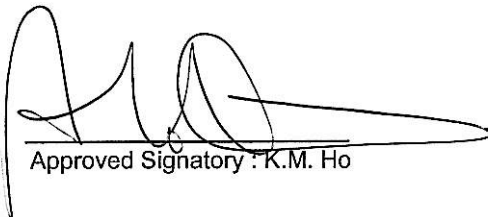
Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 02/06/2011 (p.m.) Test No. : 79
Tide State : MID-EBB Weather : HAZY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	13:31	34	0.6	28.5	22.0	6.16	90.8	7.03	7.83	10	No Water
				28.4	22.1	6.58	96.6	7.82	7.85	12	
W2	14:07	34	0.1	29.2	18.9	8.08	117.3	12.0	7.87	17	
				29.0	19.1	7.84	113.5	11.1	7.87	15	
W3	13:50	34	0.4	28.7	17.4	8.67	124.9	14.5	7.83	20	
				28.6	17.8	9.02	129.6	12.3	7.89	13	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	14:22	33	0.1	29.0	17.4	8.49	122.0	1.88	7.64	4	
				28.9	17.5	8.83	126.0	1.72	7.65	2	

Certified by :  Date : 15/6/2011
Approved Signatory : K.M. Ho

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MateriaLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

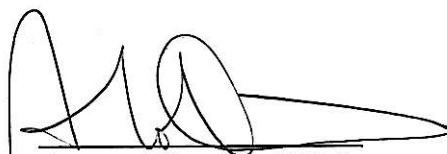
Field Data Record (Stream Water)

Date : 02/06/2011 (a.m.)
Tide State : MID-FLOOD
Site Condition : NORMAL

Test No. : 79
Weather : HAZY

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	8:40	30	1.0	27.6	22.5	5.85	84.2	4.66	7.77	4	No Water
				27.6	22.6	5.51	79.4	4.43	7.82	4	
W2	9:17	30	0.1	28.1	22.0	5.46	79.9	4.85	7.78	5	
				28.1	22.0	5.53	80.8	5.02	7.82	10	
W3	9:00	30	1.0	27.8	21.7	5.49	79.8	5.04	7.72	5	
				27.8	21.6	5.42	79.0	5.34	7.78	5	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	9:34	30	0.1	27.6	21.0	5.24	75.9	4.50	7.74	5	
				27.5	21.1	5.30	76.8	4.24	7.75	5	

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15/6/2011

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Client : VW-VES (HK) Ltd.

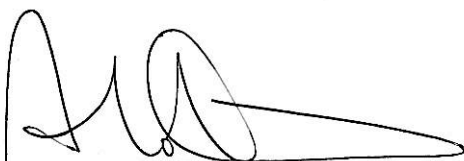
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 04/06/2011 (p.m.) Test No. : 80
Tide State : MID-EBB Weather : CLOUDY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	14:47	32	0.6	28.5	21.3	5.66	82.3	6.81	7.70	10	No Water
				28.4	21.5	5.60	81.5	6.45	7.72	9	
W2	15:18	31	0.1	28.6	17.9	6.82	98.6	14.2	7.76	14	
				28.5	18.1	6.93	100.1	13.0	7.78	25	
W3	15:04	31	0.4	28.4	16.3	7.30	103.7	11.3	7.68	14	
				28.3	16.6	7.59	107.6	10.2	7.70	17	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	15:33	30	0.1	27.5	16.7	6.22	86.9	2.05	7.39	5	
				27.5	16.6	6.23	87.1	2.04	7.40	3	

Certified by :



Approved Signatory : K.M. Ho

Date :

15/6/2011

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Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

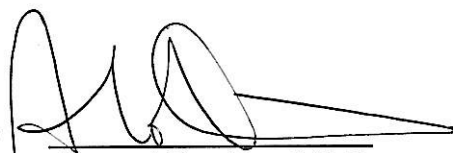
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date	: 04/06/2011 (a.m.)	Test No.	: 80
Tide State	: MID-FLOOD	Weather	: FINE
Site Condition	: NORMAL		

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	8:35	31	1.0	28.3	21.0	5.70	82.9	7.13	7.74	7	No Water
				28.2	21.2	5.56	80.8	7.24	7.77	7	
W2	9:11	31	0.1	28.4	21.1	5.30	78.1	8.39	7.76	8	
				28.4	21.1	5.28	76.9	8.61	7.77	9	
W3	8:55	31	1.0	28.2	20.3	5.54	79.9	9.63	7.68	11	
				28.1	20.4	5.46	79.0	9.43	7.69	10	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	9:26	30	0.1	27.8	19.9	5.24	75.1	7.46	7.71	8	
				27.7	19.9	5.52	79.0	6.81	7.73	9	

Certified by :



Approved Signatory : K.M. Ho

Date :

15/6/2011

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MateriaLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

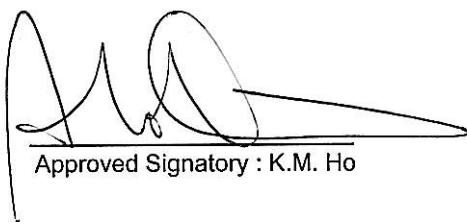
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 07/06/2011 (p.m.) Test No. : 81
 Tide State : MID-EBB Weather : SUNNY
 Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	16:22	32	0.8	30.1	18.9	5.71	84.6	7.34	7.79	6	No Water
				30.0	19.1	5.56	82.3	6.62	7.81	14	
W2	15:59	32	0.1	30.8	17.1	8.69	124.2	10.8	7.96	15	
				30.7	17.3	8.29	118.3	12.2	8.00	17	
W3	16:42	32	0.6	30.8	16.5	7.19	106.4	13.9	8.04	28	
				30.8	16.6	7.39	109.2	12.6	8.08	14	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	17:14	31	0.1	30.0	15.6	6.62	97.0	3.26	7.63	9	
				30.0	15.8	6.64	97.2	3.58	7.65	9	

Certified by :



Approved Signatory : K.M. Ho

Date :

15/6/2011

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Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

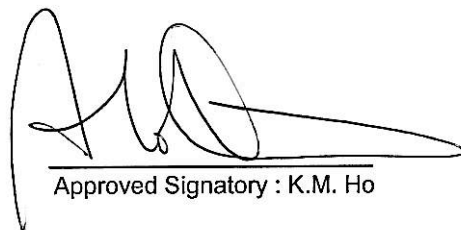
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 07/06/2011 (a.m.) Test No. : 81
Tide State : MID-FLOOD Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	10:01	31	0.8	29.7	17.0	6.05	88.0	8.33	7.73	9	No Water
				29.6	17.0	6.29	91.8	8.12	7.74	9	
W2	10:38	32	0.1	30.1	17.0	6.13	89.9	9.02	7.76	11	
				30.1	16.9	6.14	90.1	9.05	7.76	11	
W3	10:20	32	0.8	29.7	17.3	7.58	104.7	16.1	7.71	21	
				29.6	17.3	7.28	100.6	16.0	7.70	15	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	10:53	33	0.1	30.0	17.2	6.02	88.5	12.2	7.60	14	
				29.8	17.4	6.13	89.6	10.7	7.61	15	

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Approved Signatory : K.M. Ho

Date :

05/06/2011

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Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 09/06/2011 (p.m.) Test No. : 82
Tide State : MID-EBB Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	16:40	34	0.9	30.8	17.9	6.33	94.7	6.01	7.83	7	No Water
				30.8	18.0	6.25	93.1	6.82	7.84	5	
W2	17:10	33	0.1	31.7	16.7	6.42	96.6	9.08	7.80	9	
				31.7	16.8	6.44	97.0	9.17	7.82	10	
W3	16:56	35	0.8	32.6	16.4	7.25	110.8	13.4	7.86	16	
				32.4	16.6	7.30	111.0	12.7	7.90	16	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	17:26	32	0.1	35.8	12.5	9.35	145.2	8.04	8.33	7	
				35.7	12.7	9.02	140.8	7.86	8.35	14	

Certified by :

Approved Signatory : K.M. Ho

Date :

16/6/2011

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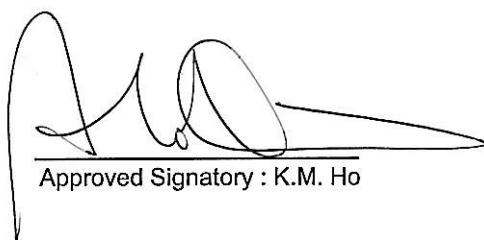
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 09/06/2011 (a.m.) Test No. : 82
Tide State : MID-FLOOD Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	11:58	33	0.5	30.9	16.5	6.81	100.1	19.7	7.86	12	No Water
				30.8	16.5	6.65	98.0	18.0	7.85	23	
W2	12:32	34	0.1	32.2	16.3	6.20	92.8	21.7	7.71	21	
				32.3	16.5	6.21	93.2	24.2	7.73	26	
W3	12:17	34	0.6	31.1	16.2	5.29	76.9	27.3	7.60	33	
				31.1	16.3	5.34	77.6	28.0	7.63	32	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	12:48	33	0.1	37.4	12.0	11.57	186.1	12.0	8.47	49	
				37.5	12.1	11.70	188.0	13.8	8.49	59	

Certified by :



Approved Signatory : K.M. Ho

Date :

16/6/2011

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Our Ref. No. : 100440EN110891

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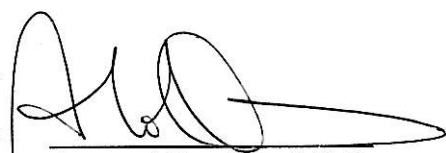
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date	: 11/06/2011 (a.m.)	Test No.	: 83
Tide State	: MID-EBB	Weather	: FINE
Site Condition	: NORMAL		

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	9:29	32	0.4	29.4	15.7	5.63	81.2	7.77	7.69	11	No Water
				29.5	15.7	5.74	82.8	8.13	7.77	12	
W2	10:06	33	0.1	29.8	15.9	5.69	82.4	22.8	7.59	21	
				29.9	15.9	5.90	85.6	21.0	7.61	29	
W3	9:48	33	0.2	29.9	14.3	3.96	100.1	15.8	7.62	32	
				29.9	14.3	6.92	99.3	16.3	7.60	23	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	10:20	33	0.1	31.4	12.1	9.94	143.1	1.95	8.03	3	
				31.2	12.2	9.95	143.2	2.03	8.06	6	

Certified by :


 Approved Signatory : K.M. Ho

Date :

16/6/2011

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Client : VW-VES (HK) Ltd.

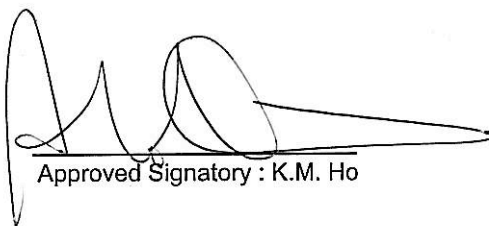
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 11/06/2011 (p.m.) Test No. : 83
Tide State : MID-FLOOD Weather : CLOUDY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	15:20	33	0.3	32.5	17.9	7.14	108.9	30.1	7.99	34	Turbid water back flow into the river from Deep Bay
				32.6	17.6	7.01	107.0	27.4	8.02	34	
W2	15:50	32	0.1	33.4	16.3	7.16	110.1	53.6	7.88	67	
				33.4	16.6	7.14	110.0	52.0	7.93	57	
W3	15:35	33	0.4	34.1	15.5	5.25	80.8	42.9	7.63	53	
				33.8	15.7	5.30	81.0	39.6	7.65	44	
C1	-	-	-	-	-	-	-	-	-	-	No Water
				-	-	-	-	-	-	-	
C2	16:05	31	0.1	33.4	12.4	8.14	120.9	2.10	8.07	4	
				33.4	12.7	8.43	124.4	2.24	8.10	10	

Certified by :



Approved Signatory : K.M. Ho

Date :

16/6/2011

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MaterialLab

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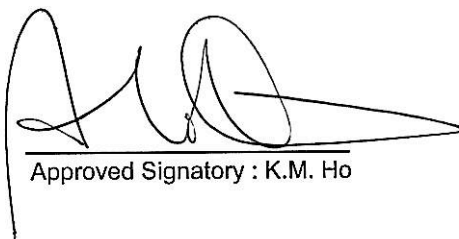
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 14/06/2011 (a.m.) Test No. : 84
Tide State : MID-EBB Weather : FINE
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	11:53	31	0.4	29.6	16.8	5.63	80.4	12.0	7.64	16	No Water
				29.6	16.7	5.70	81.3	11.7	7.66	18	
W2	12:12	32	0.3	30.2	12.1	6.02	88.5	18.9	7.58	13	
				30.0	12.3	5.85	86.1	17.7	7.60	12	
W3	11:37	30	0.1	29.7	14.9	5.52	79.1	8.40	7.60	30	
				29.7	14.9	5.33	76.6	9.72	7.61	31	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	12:28	32	0.1	31.2	10.6	6.89	99.8	1.87	7.56	16	
				31.2	10.5	6.99	101.6	1.96	7.57	2	

Certified by :



Approved Signatory : K.M. Ho

Date :

22/6/2011

FUGRO TECHNICAL SERVICES LIMITED

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E-mail : matlab@fugro.com.hk
Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

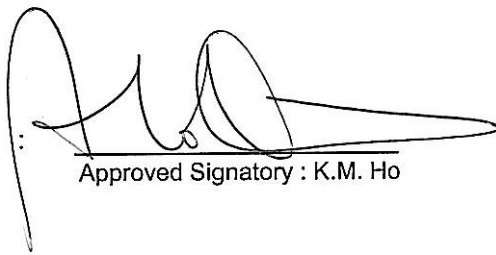
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 14/06/2011 (p.m.) Test No. : 84
Tide State : MID-FLOOD Weather : FINE
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	16:48	32	0.1	30.4	16.6	6.15	90.6	26.0	7.77	35	No Water
				30.3	16.8	6.14	89.9	25.9	7.83	31	
W2	16:30	32	0.1	29.7	11.2	6.72	95.8	30.2	7.66	39	
				29.5	11.3	6.81	96.7	29.0	7.68	39	
W3	17:04	32	0.1	29.5	10.3	6.97	97.9	3.10	7.61	8	
				29.4	10.3	7.09	99.7	3.16	7.61	7	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	17:18	30	0.1	29.6	7.9	7.01	98.4	4.10	7.58	8	
				29.6	8.0	7.05	99.7	3.92	7.59	13	

Certified by



Approved Signatory : K.M. Ho

Date : 22/6/2011

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MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

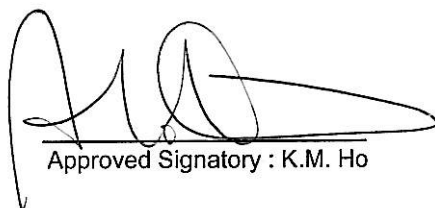
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 16/06/2011 (p.m.) Test No. : 85
Tide State : MID-EBB Weather : CLOUDY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	13:41	29	0.4	28.2	10.3	5.23	70.4	29.3	7.76	26	
				28.3	10.6	5.33	71.7	26.2	7.77	28	
W2	14:24	28	0.1	27.7	8.6	5.30	70.9	21.6	7.64	34	
				27.8	8.7	5.36	71.5	19.5	7.66	32	
W3	14:02	29	0.2	27.7	7.9	5.35	71.3	16.7	7.59	27	
				27.8	7.9	5.28	70.9	18.4	7.62	27	
C1	14:57	28	0.1	27.3	0.2	7.65	97.5	12.5	7.70	6	
				27.2	0.0	7.69	98.4	11.7	7.62	8	
C2	14:42	28	0.1	27.3	4.7	5.86	77.0	5.84	7.03	5	
				27.3	4.9	5.68	74.2	6.10	7.04	6	

Certified by :



Approved Signatory : K.M. Ho

Date :

23/6/2011

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MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

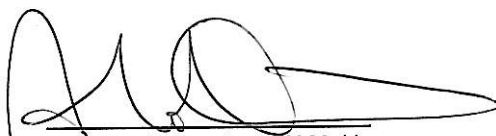
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 16/06/2011 (a.m.) Test No. : 85
Tide State : MID-FLOOD Weather : RAINY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	8:39	29	1.0	28.9	14.4	5.27	75.0	6.88	7.70	7	
				28.9	14.4	5.89	83.4	6.43	7.69	7	
W2	9:18	28	0.1	28.5	12.8	5.40	76.0	8.43	7.66	10	
				28.5	12.8	5.45	76.7	8.10	7.67	9	
W3	8:59	30	1.0	29.1	14.5	5.36	76.1	10.0	7.62	12	
				29.2	14.6	5.24	74.5	10.5	7.67	13	
C1	9:47	25	0.1	27.5	0.3	5.52	72.0	189	8.20	85	
				27.5	0.2	5.60	73.0	173	8.17	150	
C2	9:34	25	0.1	28.5	12.3	5.30	75.0	6.88	7.58	8	
				28.6	12.4	5.33	75.4	7.08	7.59	8	

Certified by :



Approved Signatory : K.M. Ho

Date :

13/6/2011

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MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 18/06/2011 (p.m.) Test No. : 86
Tide State : MID-EBB Weather : SUNNY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	14:57	34	0.6	29.8	11.5	6.00	84.9	9.95	7.61	15	
				29.8	11.4	5.98	84.4	11.5	7.63	12	
W2	15:32	33	0.1	29.6	10.3	6.42	90.1	30.0	7.66	39	
				29.6	10.5	6.54	91.6	30.5	7.67	39	
W3	15:16	33	0.4	29.4	8.8	6.30	87.4	11.6	7.62	17	
				29.2	8.9	6.02	83.0	10.3	7.58	13	
C1	16:02	34	0.1	31.4	0.2	8.66	119.5	7.13	8.53	4	
				31.5	0.1	8.88	121.3	6.92	8.62	4	
C2	15:48	33	0.1	29.2	7.2	6.13	83.8	5.73	7.13	9	
				29.2	7.1	6.16	84.4	5.92	7.15	6	

Certified by :



Approved Signatory : K.M. Ho

Date :

27/6/2011

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MateriaLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

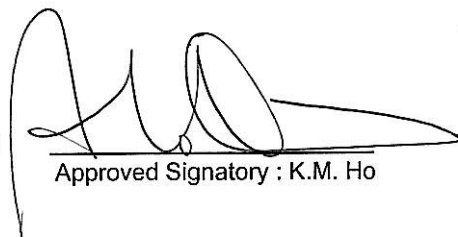
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 18/06/2011 (a.m.) Test No. : 86
 Tide State : MID-FLOOD Weather : FINE
 Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	8:33	29	1.0	28.4	15.2	5.89	83.3	9.36	7.66	8	
				28.8	15.0	5.79	82.4	9.24	7.69	7	
W2	9:36	32	0.1	29.5	14.8	5.63	79.9	13.1	7.75	13	
				29.5	14.9	6.59	79.5	13.8	7.76	18	
W3	9:21	31	1.0	29.2	14.6	5.60	79.4	11.3	7.68	9	
				29.1	14.5	5.52	78.2	10.9	7.71	11	
C1	10:01	31	0.1	28.4	0.2	6.24	82.3	7.68	7.47	5	
				28.4	0.1	6.32	84.4	7.49	7.49	4	
C2	9:48	31	0.1	29.1	12.5	5.22	73.9	10.9	7.48	9	
				29.0	12.4	5.27	74.5	10.5	7.49	11	

Certified by :



Approved Signatory : K.M. Ho

Date :

27/6/2011

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MaterialLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

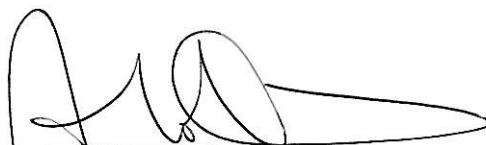
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 21/06/2011 (p.m.) Test No. : 87
Tide State : MID-EBB Weather : CLOUDY
Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	16:41	33	0.8	30.5	13.2	7.27	105.9	7.98	8.03	11	No Water
				30.4	13.3	7.62	110.4	8.21	8.05	11	
W2	16:26	33	0.1	30.5	12.2	7.15	102.9	12.6	7.93	16	
				30.4	12.3	7.24	104.0	12.5	7.97	16	
W3	17:00	31	0.6	30.1	8.5	6.58	92.3	7.85	7.59	11	
				30.0	8.5	6.56	91.7	7.66	7.60	9	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	17:16	30	0.1	28.6	8.9	5.60	78.3	3.72	7.08	5	
				28.7	9.0	5.51	77.0	3.93	7.10	8	

Certified by :


 Approved Signatory : K.M. Ho

Date :

25/6/2011

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 Website : www.materialab.com.hk

MateriaLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 21/06/2011 (a.m.) Test No. : 87
 Tide State : MID-FLOOD Weather : FINE
 Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	10:48	33	1.0	30.5	13.7	5.70	82.5	6.65	7.73	7	No Water
				30.5	13.8	5.66	81.9	6.94	7.72	6	
W2	10:32	34	0.1	30.5	10.8	5.69	81.0	12.3	7.66	11	
				30.4	10.8	5.80	82.3	11.9	7.68	14	
W3	11:08	34	1.0	30.5	11.6	5.33	77.2	14.4	7.72	18	
				30.5	11.7	5.77	83.1	16.2	7.75	20	
C1	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	
C2	11:27	33	0.1	30.2	10.0	5.70	80.4	11.7	7.56	13	
				30.3	10.1	5.84	82.0	11.4	7.58	13	

Certified by :  Date : 25/6/2011
 Approved Signatory : K.M. Ho

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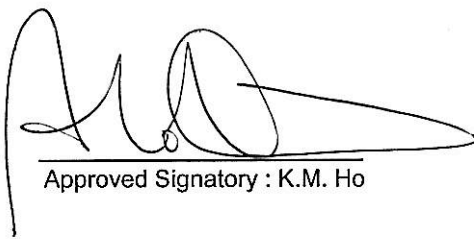
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 23/06/2011 (a.m.) Test No. : 88
 Tide State : MID-EBB Weather : CLOUDY
 Site Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	8:58	29	0.6	27.4	18.0	5.20	72.5	10.7	7.64	13	
				27.1	17.5	5.24	73.0	11.0	7.62	13	
W2	8:38	29	0.1	26.8	13.1	5.33	71.6	8.85	7.57	10	
				26.8	14.0	5.24	70.4	8.34	7.59	9	
W3	9:18	29	0.5	26.5	4.9	6.03	77.4	6.22	7.62	6	
				26.5	4.5	5.80	74.9	5.85	7.58	6	
C1	9:48	29	0.1	26.2	0.2	5.21	66.3	9.75	7.06	3	
				26.2	0.1	5.29	67.3	9.00	7.08	4	
C2	9:34	29	0.1	26.3	2.4	4.49	67.7	4.01	7.04	2	
				26.3	2.2	4.50	67.9	3.97	7.00	2	

Certified by :



Approved Signatory : K.M. Ho

Date :

27/6/2011

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MateriaLab

Our Ref. No. : 100440EN110891

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

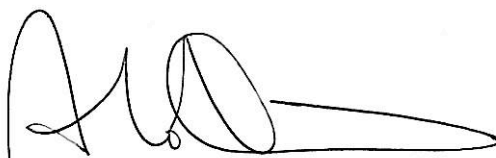
Field Data Record (Stream Water)

Date : 23/06/2011 (p.m.)
 Tide State : MID-FLOOD
 Site Condition : NORMAL

Test No. : 88
 Weather : RAINY

Location	Time	Ambient Temp. °C	Depth of water m	Water Temp. °C	Salinity ppt	D.O. mg/L	D.O.S. %	Turbidity NTU	pH Unit	Suspended Solids Content, mg/L	Remarks
W1	12:46	28	1.0	27.3	21.4	5.97	84.4	10.8	7.75	13	
				27.3	21.4	5.83	82.6	12.0	7.77	14	
W2	12:28	28	0.1	27.1	14.3	5.85	80.2	8.70	7.56	12	
				27.1	14.4	5.70	78.3	8.66	7.59	11	
W3	13:03	29	1.0	26.8	6.3	5.75	74.2	8.63	7.56	10	
				26.8	6.8	5.58	71.4	8.77	7.57	9	
C1	12:01	27	0.1	25.9	0.3	6.26	77.9	9.23	7.13	3	
				25.9	0.2	6.04	75.1	9.27	7.00	5	
C2	12:14	27	0.1	25.7	0.5	5.07	63.8	13.9	6.85	15	
				25.7	0.4	5.28	65.6	15.6	6.74	17	

Certified by :



Approved Signatory : K.M. Ho

Date :

27/6/2011

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MaterialLab

Report No. : 100440WA110778(10)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Eighteen samples of stream water taken by the staff of MaterialLab on 26/05/2011

Client sample ID :

1. C1 AE	11. C2 PF
2. C1 AE	12. C2 PF
3. C2 AE	13. W1 PF
4. C2 AE	14. W1 PF
5. W1 AE	15. W2 PF
6. W1 AE	16. W2 PF
7. W2 AE	17. W3 PF
8. W2 AE	18. W3 PF
9. W3 AE	
10. W3 AE	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA110778(10)/1 – WA110778(10)/18

Date of receipt of sample : 26/05/2011

Date test commenced : 27/05/2011

Date test completed : 27/05/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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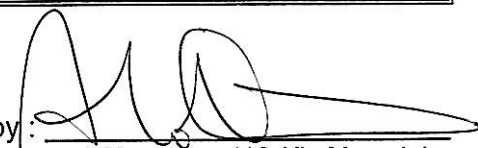
Report No. : 100440WA110778(10)

Page 2 of 2

**Results:**

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C1 AE	3
2. C1 AE	4
3. C2 AE	10
4. C2 AE	20
5. W1 AE	4
6. W1 AE	4
7. W2 AE	7
8. W2 AE	8
9. W3 AE	8
10. W3 AE	7
11. C2 PF	8
12. C2 PF	5
13. W1 PF	12
14. W1 PF	8
15. W2 PF	22
16. W2 PF	17
17. W3 PF	14
18. W3 PF	14

End of Report

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 2/6/2011*Note : This report refers only to the sample(s) tested.*

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA110778(10)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
-	-	-

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	99

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA110778(11)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 28/05/2011

Client sample ID :

1. C2 AE	11. W1 PF
2. C2 AE	12. W1 PF
3. W1 AE	13. W2 PF
4. W1 AE	14. W2 PF
5. W2 AE	15. W3 PF
6. W2 AE	16. W3 PF
7. W3 AE	
8. W3 AE	
9. C2 PF	
10. C2 PF	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA110778(11)/1 – WA110778(11)/16

Date of receipt of sample : 28/05/2011

Date test commenced : 30/05/2011

Date test completed : 31/05/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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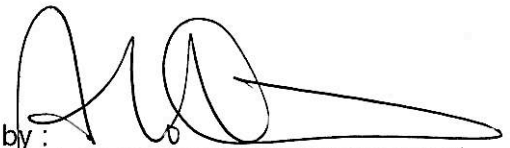
MaterialLab

Report No. : 100440WA110778(11)

Page 2 of 2

**Results:**

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AE	2
2. C2 AE	2
3. W1 AE	5
4. W1 AE	5
5. W2 AE	10
6. W2 AE	20
7. W3 AE	6
8. W3 AE	9
9. C2 PF	13
10. C2 PF	14
11. W1 PF	13
12. W1 PF	15
13. W2 PF	32
14. W2 PF	31
15. W3 PF	47
16. W3 PF	38

****End of Report****Supervised by : Y. M. ChungCertified by : Approved Signatory : HO Kin Man, John
Manager – Chemical & EnvironmentalDate : 7/6/2011*Note : This report refers only to the sample(s) tested.*

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MaterialLab

Report No. : 100440WA110778(11)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W2 PF	31	31

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	102

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA110778(12)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 31/05/2011

Client sample ID :

1. C2 AE	11. W1 PF
2. C2 AE	12. W1 PF
3. W1 AE	13. W2 PF
4. W1 AE	14. W2 PF
5. W2 AE	15. W3 PF
6. W2 AE	16. W3 PF
7. W3 AE	
8. W3 AE	
9. C2 PF	
10. C2 PF	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA110778(12)/1 – WA110778(12)/16

Date of receipt of sample : 31/05/2011

Date test commenced : 01/06/2011

Date test completed : 02/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA110778(12)

Page 2 of 2

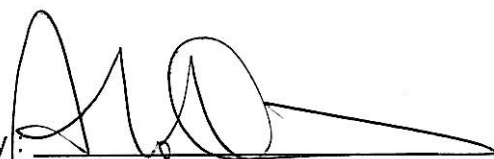


Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AE	1
2. C2 AE	1
3. W1 AE	6
4. W1 AE	6
5. W2 AE	8
6. W2 AE	8
7. W3 AE	27
8. W3 AE	42
9. C2 PF	4
10. C2 PF	13
11. W1 PF	15
12. W1 PF	15
13. W2 PF	39
14. W2 PF	38
15. W3 PF	4
16. W3 PF	6

****End of Report****

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 7/6/2011

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA110778(12)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W2 PF	38	39

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	103

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA111080



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 02/06/2011

Client sample ID :

1. C2 AF	11. W1 PE
2. C2 AF	12. W1 PE
3. W1 AF	13. W2 PE
4. W1 AF	14. W2 PE
5. W2 AF	15. W3 PE
6. W2 AF	16. W3 PE
7. W3 AF	
8. W3 AF	
9. C2 PE	
10. C2 PE	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080/1 – WA111080/16

Date of receipt of sample : 02/06/2011

Date test commenced : 03/06/2011

Date test completed : 04/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA111080


Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AF	5
2. C2 AF	5
3. W1 AF	4
4. W1 AF	4
5. W2 AF	5
6. W2 AF	10
7. W3 AF	5
8. W3 AF	5
9. C2 PE	4
10. C2 PE	2
11. W1 PE	10
12. W1 PE	12
13. W2 PE	17
14. W2 PE	15
15. W3 PE	20
16. W3 PE	13

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 14/6/2011

End of Report

Note : This report refers only to the sample(s) tested.

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Materialab

Report No. : 100440WA111080

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W3 PE	14	12

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	99

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA111080(1)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 04/06/2011

Client sample ID :

1. C2 AF	11. W1 PE
2. C2 AF	12. W1 PE
3. W1 AF	13. W2 PE
4. W1 AF	14. W2 PE
5. W2 AF	15. W3 PE
6. W2 AF	16. W3 PE
7. W3 AF	
8. W3 AF	
9. C2 PE	
10. C2 PE	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(1)/1 – WA111080(1)/16

Date of receipt of sample : 04/06/2011

Date test commenced : 07/06/2011

Date test completed : 08/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(1)

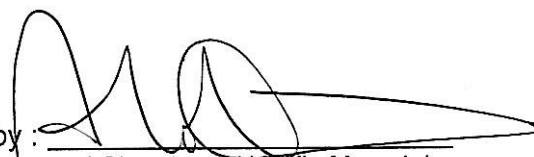
Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AF	8
2. C2 AF	9
3. W1 AF	7
4. W1 AF	7
5. W2 AF	8
6. W2 AF	9
7. W3 AF	11
8. W3 AF	10
9. C2 PE	5
10. C2 PE	3
11. W1 PE	10
12. W1 PE	9
13. W2 PE	14
14. W2 PE	25
15. W3 PE	14
16. W3 PE	17

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 14/6/2011

End of Report

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA111080(1)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W2 PE	26	24

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	101

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA111080(2)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MateriaLab on 07/06/2011

Client sample ID :

1. C2 AF	11. W1 PE
2. C2 AF	12. W1 PE
3. W1 AF	13. W2 PE
4. W1 AF	14. W2 PE
5. W2 AF	15. W3 PE
6. W2 AF	16. W3 PE
7. W3 AF	
8. W3 AF	
9. C2 PE	
10. C2 PE	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(2)/1 – WA111080(2)/16

Date of receipt of sample : 07/06/2011

Date test commenced : 08/06/2011

Date test completed : 09/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(2)

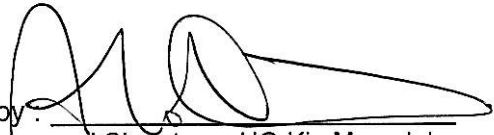
Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AF	14
2. C2 AF	15
3. W1 AF	9
4. W1 AF	9
5. W2 AF	11
6. W2 AF	11
7. W3 AF	21
8. W3 AF	15
9. C2 PE	9
10. C2 PE	9
11. W1 PE	6
12. W1 PE	14
13. W2 PE	15
14. W2 PE	17
15. W3 PE	28
16. W3 PE	14

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager - Chemical & Environmental

Date : 14/6/2021

End of Report

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA111080(2)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W3 PE	15	13

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	100

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(3)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 09/06/2011

Client sample ID : 1. C2 AF 11. W1 PE
2. C2 AF 12. W1 PE
3. W1 AF 13. W2 PE
4. W1 AF 14. W2 PE
5. W2 AF 15. W3 PE
6. W2 AF 16. W3 PE
7. W3 AF
8. W3 AF
9. C2 PE
10. C2 PE

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(3)/1 – WA111080(3)/16

Date of receipt of sample : 09/06/2011

Date test commenced : 10/06/2011

Date test completed : 11/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA111080(3)

Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AF	49
2. C2 AF	59
3. W1 AF	12
4. W1 AF	23
5. W2 AF	21
6. W2 AF	26
7. W3 AF	33
8. W3 AF	32
9. C2 PE	7
10. C2 PE	14
11. W1 PE	7
12. W1 PE	5
13. W2 PE	9
14. W2 PE	10
15. W3 PE	16
16. W3 PE	16

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 16/6/2011

****End of Report****

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA111080(3)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W3 AF	34	31

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	100

Note : This report refers only to the sample(s) tested.

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Report No. : 100440WA111080(4)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 11/06/2011

Client sample ID :

1. C2 AE	11. W1 PF
2. C2 AE	12. W1 PF
3. W1 AE	13. W2 PF
4. W1 AE	14. W2 PF
5. W2 AE	15. W3 PF
6. W2 AE	16. W3 PF
7. W3 AE	
8. W3 AE	
9. C2 PF	
10. C2 PF	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(4)/1 – WA111080(4)/16

Date of receipt of sample : 11/06/2011

Date test commenced : 13/06/2011

Date test completed : 14/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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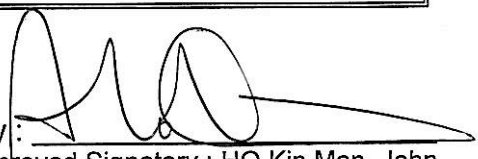
MaterialLab

Report No. : 100440WA111080(4)

Page 2 of 2

**Results:**

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AE	3
2. C2 AE	6
3. W1 AE	11
4. W1 AE	12
5. W2 AE	21
6. W2 AE	29
7. W3 AE	32
8. W3 AE	23
9. C2 PF	4
10. C2 PF	10
11. W1 PF	34
12. W1 PF	34
13. W2 PF	67
14. W2 PF	57
15. W3 PF	53
16. W3 PF	44

Supervised by : Y. M. Chung
 Certified by: 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 16/6/2011****End of Report*****Note : This report refers only to the sample(s) tested.*

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MaterialLab

Report No. : 100440WA111080(4)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W1 PF	34	35

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	101

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(5)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 14/06/2011

Client sample ID :

1. C2 AE	11. W1 PF
2. C2 AE	12. W1 PF
3. W1 AE	13. W2 PF
4. W1 AE	14. W2 PF
5. W2 AE	15. W3 PF
6. W2 AE	16. W3 PF
7. W3 AE	
8. W3 AE	
9. C2 PF	
10. C2 PF	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(5)/1 – WA111080(5)/16

Date of receipt of sample : 14/06/2011

Date test commenced : 15/06/2011

Date test completed : 16/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA111080(5)

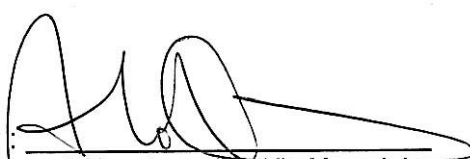
Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AE	16
2. C2 AE	2
3. W1 AE	16
4. W1 AE	18
5. W2 AE	13
6. W2 AE	12
7. W3 AE	30
8. W3 AE	31
9. C2 PF	8
10. C2 PF	13
11. W1 PF	35
12. W1 PF	31
13. W2 PF	39
14. W2 PF	39
15. W3 PF	8
16. W3 PF	7

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 21/6/2011

****End of Report****

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(5)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W1 PF	32	31

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	99

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(6)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Twenty samples of stream water taken by the staff of MaterialLab on 16/06/2011

Client sample ID :

1. C1 AF	11. C1 PE
2. C1 AF	12. C1 PE
3. C2 AF	13. C2 PE
4. C2 AF	14. C2 PE
5. W1 AF	15. W1 PE
6. W1 AF	16. W1 PE
7. W2 AF	17. W2 PE
8. W2 AF	18. W2 PE
9. W3 AF	19. W3 PE
10. W3 AF	20. W3 PE

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(6)/1 – WA111080(6)/20

Date of receipt of sample : 16/06/2011

Date test commenced : 17/06/2011

Date test completed : 18/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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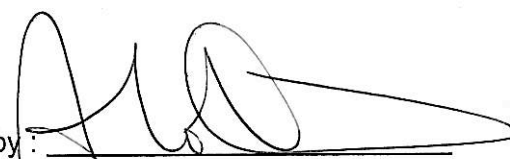
Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C1 AF	85
2. C1 AF	150
3. C2 AF	8
4. C2 AF	8
5. W1 AF	7
6. W1 AF	7
7. W2 AF	10
8. W2 AF	9
9. W3 AF	12
10. W3 AF	13
11. C1 PE	6
12. C1 PE	8
13. C2 PE	5
14. C2 PE	6
15. W1 PE	26
16. W1 PE	28
17. W2 PE	34
18. W2 PE	32
19. W3 PE	27
20. W3 PE	27

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 22/6/2011

****End of Report****

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(6)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W1 PE	28	28

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	102

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(7)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Twenty samples of stream water taken by the staff of MaterialLab on 18/06/2011

Client sample ID :

1. C1 AF	11. C1 PE
2. C1 AF	12. C1 PE
3. C2 AF	13. C2 PE
4. C2 AF	14. C2 PE
5. W1 AF	15. W1 PE
6. W1 AF	16. W1 PE
7. W2 AF	17. W2 PE
8. W2 AF	18. W2 PE
9. W3 AF	19. W3 PE
10. W3 AF	20. W3 PE

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(7)/1 – WA111080(7)/20

Date of receipt of sample : 18/06/2011

Date test commenced : 20/06/2011

Date test completed : 21/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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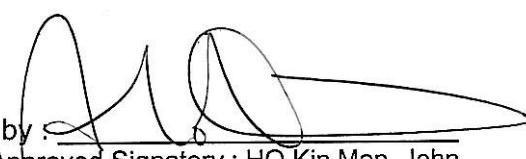
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Report No. : 100440WA111080(7)

Page 2 of 2

**Results:**

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C1 AF	5
2. C1 AF	4
3. C2 AF	9
4. C2 AF	11
5. W1 AF	8
6. W1 AF	7
7. W2 AF	13
8. W2 AF	18
9. W3 AF	9
10. W3 AF	11
11. C1 PE	4
12. C1 PE	4
13. C2 PE	9
14. C2 PE	6
15. W1 PE	15
16. W1 PE	12
17. W2 PE	39
18. W2 PE	39
19. W3 PE	17
20. W3 PE	13

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 27/6/2011****End of Report*****Note : This report refers only to the sample(s) tested.*

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MateriaLab

Report No. : 100440WA111080(7)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W2 PE	41	39

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	99.6

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA111080(8)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 21/06/2011

Client sample ID :

1. C2 AF	11. W1 PE
2. C2 AF	12. W1 PE
3. W1 AF	13. W2 PE
4. W1 AF	14. W2 PE
5. W2 AF	15. W3 PE
6. W2 AF	16. W3 PE
7. W3 AF	
8. W3 AF	
9. C2 AE	
10. C2 AE	

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(8)/1 – WA111080(8)/16

Date of receipt of sample : 21/06/2011

Date test commenced : 22/06/2011

Date test completed : 23/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA111080(8)

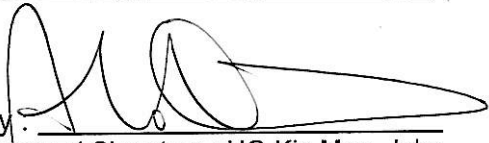
Page 2 of 2



Results:

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C2 AF	13
2. C2 AF	13
3. W1 AF	7
4. W1 AF	6
5. W2 AF	11
6. W2 AF	14
7. W3 AF	18
8. W3 AF	20
9. C2 PE	5
10. C2 PE	8
11. W1 PE	11
12. W1 PE	11
13. W2 PE	16
14. W2 PE	16
15. W3 PE	11
16. W3 PE	9

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 24/6/2011

****End of Report****

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA111080(8)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W3 AF	21	20

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	102

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA111080(9)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Twenty samples of stream water taken by the staff of MateriaLab on 23/06/2011

Client sample ID :

1. C1 AE	11. C1 PF
2. C1 AE	12. C1 PF
3. C2 AE	13. C2 PF
4. C2 AE	14. C2 PF
5. W1 AE	15. W1 PF
6. W1 AE	16. W1 PF
7. W2 AE	17. W2 PF
8. W2 AE	18. W2 PF
9. W3 AE	19. W3 PF
10. W3 AE	20. W3 PF

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA111080(9)/1 – WA111080(9)/20

Date of receipt of sample : 23/06/2011

Date test commenced : 24/06/2011

Date test completed : 24/06/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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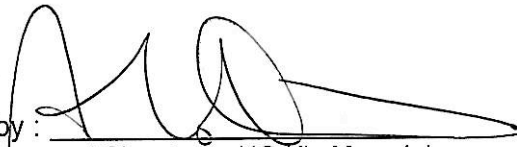
MateriaLab

Report No. : 100440WA111080(9)

Page 2 of 2

**Results:**

Sample identification	Test parameters
	Total suspended solids dried at 103°C - 105°C, mg/L
1. C1 AE	3
2. C1 AE	4
3. C2 AE	2
4. C2 AE	2
5. W1 AE	13
6. W1 AE	13
7. W2 AE	10
8. W2 AE	9
9. W3 AE	6
10. W3 AE	6
11. C1 PF	3
12. C1 PF	5
13. C2 PF	15
14. C2 PF	17
15. W1 PF	13
16. W1 PF	14
17. W2 PF	12
18. W2 PF	11
19. W3 PF	10
20. W3 PF	9

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 27/6/2011

End of Report

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA111080(9)

Laboratory Duplicate Result

Sample ID	Original Result, mg/L	Duplicate Result, mg/L
W1 PF	13	14

Laboratory Blank

Sample ID	Result, mg/L	Detection Limit, mg/L
Pro Blank	<1	1

Laboratory QC sample

Sample ID	Assigned value, mg/L	Recovery, %
QC	50	104

Note : This report refers only to the sample(s) tested.

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

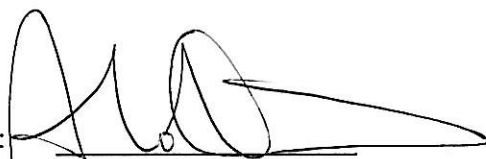
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 26/05/2011 (a.m.) Test No. : 54
Tide State : MID-EBB Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	9:49	25	3.5	S	1.0	25.8	< 0.5	< 1	< 20	
						25.8	< 0.5	< 1	< 20	
				B	2.5	25.7	< 0.5	< 1	< 20	
						25.7	< 0.5	< 1	< 20	
M2	9:36	25	5.7	S	1.0	24.8	< 0.5	< 1	< 20	
						24.8	< 0.5	< 1	< 20	
				B	4.7	25.6	< 0.5	< 1	< 20	
						25.5	< 0.5	< 1	< 20	
DM4	10:06	25	5.0	S	1.0	25.3	< 0.5	< 1	< 20	
						25.3	< 0.5	< 1	< 20	
				B	4.0	25.6	< 0.5	< 1	< 20	
						25.7	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

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Materialab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

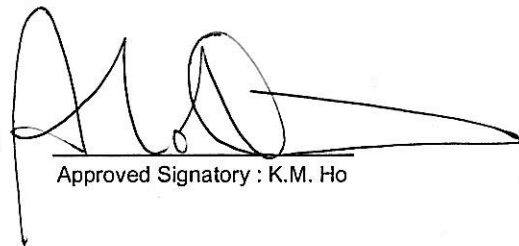
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 26/05/2011 (p.m.) Test No. : 54
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	14:18	28	3.7	S	1.0	26.8	< 0.5	< 1	< 20	
						26.7	< 0.5	< 1	< 20	
				B	2.7	26.5	< 0.5	< 1	< 20	
						26.4	< 0.5	< 1	< 20	
M2	14:06	28	4.9	S	1.0	26.9	< 0.5	< 1	< 20	
						26.9	< 0.5	< 1	< 20	
				B	3.9	25.7	< 0.5	< 1	< 20	
						25.8	< 0.5	< 1	< 20	
DM4	14:36	27	4.8	S	1.0	26.6	< 0.5	< 1	< 20	
						26.7	< 0.5	< 1	< 20	
				B	3.8	26.1	< 0.5	< 1	< 20	
						26.2	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date :

6/17/2011

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Our Ref. No. : 100440EN

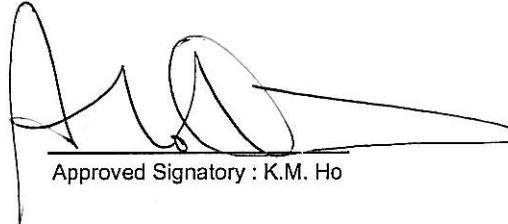
Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 28/05/2011 (a.m.) Test No. : 55
Tide State : MID-EBB Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	11:33	29	3.6	S	1.0	27.3	< 0.5	< 1	< 20	
						27.3	< 0.5	< 1	< 20	
				B	2.6	27.3	< 0.5	< 1	< 20	
						27.3	< 0.5	< 1	< 20	
M2	11:19	29	5.1	S	1.0	27.2	< 0.5	< 1	< 20	
						27.2	< 0.5	< 1	< 20	
				B	4.1	27.0	< 0.5	< 1	< 20	
						27.1	< 0.5	< 1	< 20	
DM4	11:51	29	4.8	S	1.0	27.2	< 0.5	< 1	< 20	
						27.3	< 0.5	< 1	< 20	
				B	3.8	27.0	< 0.5	< 1	< 20	
						27.0	< 0.5	< 1	< 20	

Certified by :  Date : 6/7/2011
Approved Signatory : K.M. Ho

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

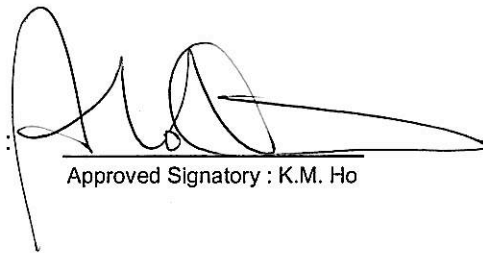
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 28/05/2011 (p.m.) Test No. : 55
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	16:39	29	3.7	S	1.0	27.1	< 0.5	< 1	< 20	
						27.1	< 0.5	< 1	< 20	
				B	2.7	27.1	< 0.5	< 1	< 20	
						27.1	< 0.5	< 1	< 20	
M2	16:27	29	5.0	S	1.0	27.9	< 0.5	< 1	< 20	
						27.9	< 0.5	< 1	< 20	
				B	4.0	27.4	< 0.5	< 1	< 20	
						27.5	< 0.5	< 1	< 20	
DM4	17:00	29	5.1	S	1.0	28.3	< 0.5	< 1	< 20	
						28.2	< 0.5	< 1	< 20	
				B	4.1	27.3	< 0.5	< 1	< 20	
						27.3	< 0.5	< 1	< 20	

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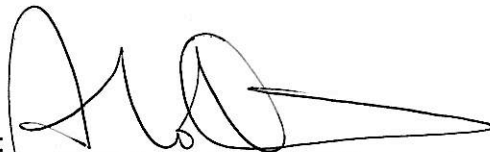
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 31/05/2011 (a.m.) Test No. : 56
Tide State : MID-EBB Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	13:14	29	3.4	S	1.0	27.4	< 0.5	< 1	< 20	
						27.5	< 0.5	< 1	< 20	
				B	2.4	26.7	< 0.5	< 1	< 20	
						26.7	< 0.5	< 1	< 20	
M2	13:00	29	4.3	S	1.0	27.3	< 0.5	< 1	< 20	
						27.3	< 0.5	< 1	< 20	
				B	3.3	26.8	< 0.5	< 1	< 20	
						26.8	< 0.5	< 1	< 20	
DM4	13:39	29	3.8	S	1.0	27.7	< 0.5	< 1	< 20	
						27.6	< 0.5	< 1	< 20	
				B	2.8	26.5	< 0.5	< 1	< 20	
						26.5	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date :

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 31/05/2011 (p.m.) Test No. : 56
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	16:57	30	3.2	S	1.0	27.8	< 0.5	< 1	< 20	
						27.8	< 0.5	< 1	< 20	
				B	2.2	27.6	< 0.5	< 1	< 20	
						27.6	< 0.5	< 1	< 20	
M2	16:45	30	4.2	S	1.0	27.9	< 0.5	< 1	< 20	
						27.9	< 0.5	< 1	< 20	
				B	3.2	27.3	< 0.5	< 1	< 20	
						27.4	< 0.5	< 1	< 20	
DM4	17:18	30	3.6	S	1.0	28.0	< 0.5	< 1	< 20	
						28.1	< 0.5	< 1	< 20	
				B	2.6	27.7	< 0.5	< 1	< 20	
						27.8	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date :

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 02/06/2011 (p.m.) Test No. : 57
Tide State : MID-EBB Weather : HAZY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	13:50	31	3.8	S	1.0	28.4	< 0.5	< 1	< 20	
						28.3	< 0.5	< 1	< 20	
				B	2.8	28.1	< 0.5	< 1	< 20	
						28.2	< 0.5	< 1	< 20	
M2	13:36	32	5.8	S	1.0	31.1	< 0.5	< 1	< 20	
						31.0	< 0.5	< 1	< 20	
				B	4.8	30.8	< 0.5	< 1	< 20	
						30.8	< 0.5	< 1	< 20	
DM4	14:09	31	4.2	S	1.0	28.3	< 0.5	< 1	< 20	
						28.2	< 0.5	< 1	< 20	
				B	3.2	28.1	< 0.5	< 1	< 20	
						28.1	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date :

6/7/2011

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

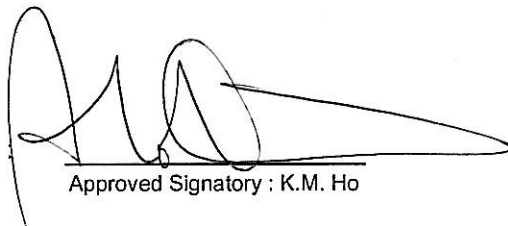
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 02/06/2011 (a.m.) Test No. : 57
Tide State : MID-FLOOD Weather : HAZY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	9:05	29	5.0	S	1.0	27.2	< 0.5	< 1	< 20	
						27.2	< 0.5	< 1	< 20	
				B	4.0	27.0	< 0.5	< 1	< 20	
						27.0	< 0.5	< 1	< 20	
M2	8:45	28	6.7	S	1.0	27.4	< 0.5	< 1	< 20	
						27.4	< 0.5	< 1	< 20	
				M	3.4	27.2	< 0.5	< 1	< 20	
						27.2	< 0.5	< 1	< 20	
				B	5.7	27.2	< 0.5	< 1	< 20	
						27.2	< 0.5	< 1	< 20	
DM4	9:23	30	5.6	S	1.0	27.2	< 0.5	< 1	< 20	
						27.2	< 0.5	< 1	< 20	
				B	4.6	27.1	< 0.5	< 1	< 20	
						27.1	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date : 6/7/2011

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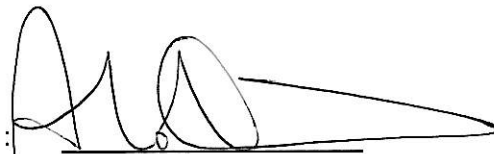
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 04/06/2011 (p.m.) Test No. : 58
Tide State : MID-EBB Weather : CLOUDY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	15:01	31	4.0	S	1.0	28.5	< 0.5	< 1	< 20	
						28.4	< 0.5	< 1	< 20	
				B	3.0	28.1	< 0.5	< 1	< 20	
						28.1	< 0.5	< 1	< 20	
M2	14:48	31	4.7	S	1.0	28.5	< 0.5	< 1	< 20	
						28.5	< 0.5	< 1	< 20	
				B	3.7	28.5	< 0.5	< 1	< 20	
						28.6	< 0.5	< 1	< 20	
DM4	15:21	31	4.9	S	1.0	28.3	< 0.5	< 1	< 20	
						28.3	< 0.5	< 1	< 20	
				B	3.9	28.0	< 0.5	< 1	< 20	
						28.0	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date :

6/7/2011

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 04/06/2011 (a.m.) Test No. : 58
Tide State : MID-FLOOD Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	8:49	31	4.3	S	1.0	27.7	< 0.5	< 1	< 20	
						27.7	< 0.5	< 1	< 20	
				B	3.3	27.6	< 0.5	< 1	< 20	
						27.6	< 0.5	< 1	< 20	
M2	8:36	31	4.7	S	1.0	28.0	< 0.5	< 1	< 20	
						28.1	< 0.5	< 1	< 20	
				B	3.7	27.9	< 0.5	< 1	< 20	
						27.9	< 0.5	< 1	< 20	
DM4	9:08	31	5.3	S	1.0	27.6	< 0.5	< 1	< 20	
						27.7	< 0.5	< 1	< 20	
				B	4.3	27.5	< 0.5	< 1	< 20	
						27.5	< 0.5	< 1	< 20	

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Date :

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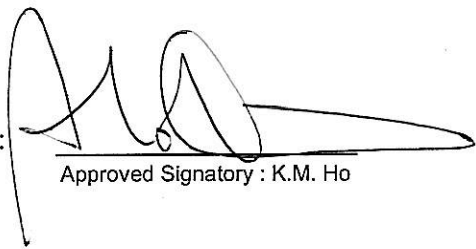


Our Ref. No. : 100440EN
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 07/06/2011 (p.m.) Test No. : 59
Tide State : MID-EBB Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	16:40	32	3.8	S	1.0	29.8	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
				B	2.8	29.7	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
M2	16:27	32	4.6	S	1.0	30.0	< 0.5	< 1	< 20	
						30.0	< 0.5	< 1	< 20	
				B	3.6	29.5	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
DM4	17:02	32	4.7	S	1.0	29.5	< 0.5	< 1	< 20	
						29.5	< 0.5	< 1	< 20	
				B	3.7	29.5	< 0.5	< 1	< 20	
						29.5	< 0.5	< 1	< 20	

Certified by : 
Approved Signatory : K.M. Ho

Date : 6/7/2011

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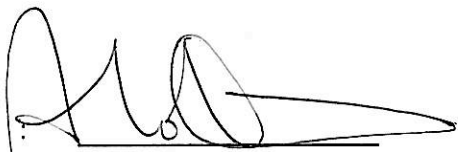


Our Ref. No. : 100440EN
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 07/06/2011 (a.m.) Test No. : 59
Tide State : MID-FLOOD Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	10:19	32	4.1	S	1.0	28.6	< 0.5	< 1	< 20	
						28.7	< 0.5	< 1	< 20	
				B	3.1	28.6	< 0.5	< 1	< 20	
						28.5	< 0.5	< 1	< 20	
M2	10:07	32	4.8	S	1.0	28.7	< 0.5	< 1	< 20	
						28.6	< 0.5	< 1	< 20	
				B	3.8	28.6	< 0.5	< 1	< 20	
						28.6	< 0.5	< 1	< 20	
DM4	10:37	32	4.9	S	1.0	29.0	< 0.5	< 1	< 20	
						29.1	< 0.5	< 1	< 20	
				B	3.9	28.9	< 0.5	< 1	< 20	
						28.9	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date : 6/7/2011

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 09/06/2011 (p.m.) Test No. : 60
Tide State : MID-EBB Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	16:53	33	3.9	S	1.0	30.6	< 0.5	< 1	< 20	
						30.6	< 0.5	< 1	< 20	
				B	2.9	29.8	< 0.5	< 1	< 20	
						29.9	< 0.5	< 1	< 20	
M2	16:42	33	5.1	S	1.0	30.4	< 0.5	< 1	< 20	
						30.4	< 0.5	< 1	< 20	
				B	4.1	30.0	< 0.5	< 1	< 20	
						30.1	< 0.5	< 1	< 20	
DM4	17:12	32	4.9	S	1.0	30.6	< 0.5	< 1	< 20	
						30.6	< 0.5	< 1	< 20	
				B	3.9	30.3	< 0.5	< 1	< 20	
						30.4	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

FUGRO TECHNICAL SERVICES LIMITED

MaterialLab Division,
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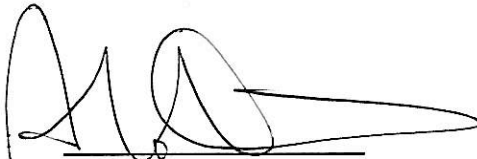


Our Ref. No. : 100440EN
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 09/06/2011 (a.m.) Test No. : 60
Tide State : MID-FLOOD Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	12:15	33	3.8	S	1.0	30.1	< 0.5	< 1	< 20	
						30.1	< 0.5	< 1	< 20	
				B	2.8	30.0	< 0.5	< 1	< 20	
						29.9	< 0.5	< 1	< 20	
M2	12:03	33	5.2	S	1.0	29.8	< 0.5	< 1	< 20	
						30.0	< 0.5	< 1	< 20	
				B	4.2	29.2	< 0.5	< 1	< 20	
						29.2	< 0.5	< 1	< 20	
DM4	12:33	33	4.6	S	1.0	30.4	< 0.5	< 1	< 20	
						30.4	< 0.5	< 1	< 20	
				B	3.6	30.0	< 0.5	< 1	< 20	
						30.0	< 0.5	< 1	< 20	

Certified by 
Approved Signatory : K.M. Ho

Date : 6/7/2011

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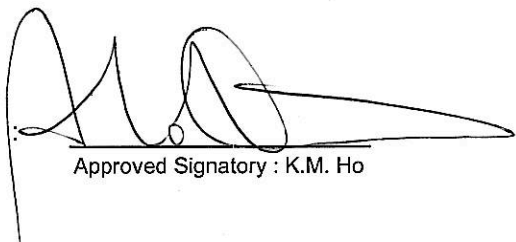


Our Ref. No. : 100440EN
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 11/06/2011 (a.m.) Test No. : 61
Tide State : MID-EBB Weather : SUNNY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	9:44	32	3.7	S	1.0	30.0	< 0.5	< 1	< 20	
						30.0	< 0.5	< 1	< 20	
				B	2.7	29.5	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
M2	9:31	32	4.3	S	1.0	29.8	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	
				B	3.3	29.7	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
DM4	10:03	32	4.5	S	1.0	30.2	< 0.5	< 1	< 20	
						30.1	< 0.5	< 1	< 20	
				B	3.5	30.0	< 0.5	< 1	< 20	
						30.0	< 0.5	< 1	< 20	

Certified by :  Date : 6/7/2011
Approved Signatory : K.M. Ho

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 11/06/2011 (p.m.)

Test No. : 61

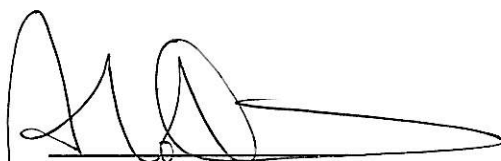
Tide State : MID-FLOOD

Weather : FINE

Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	15:37	32	3.8	S	1.0	29.9	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	
				B	2.8	29.6	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
M2	15:26	32	4.7	S	1.0	30.0	< 0.5	< 1	< 20	
						29.9	< 0.5	< 1	< 20	
				B	3.7	29.9	< 0.5	< 1	< 20	
						29.9	< 0.5	< 1	< 20	
DM4	15:57	31	4.9	S	1.0	30.0	< 0.5	< 1	< 20	
						29.9	< 0.5	< 1	< 20	
				B	3.9	29.8	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

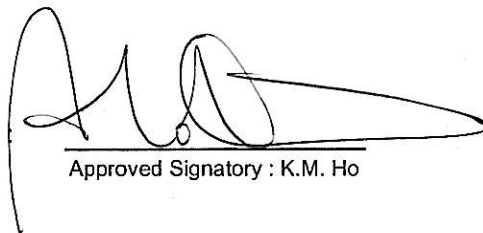
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 14/06/2011 (a.m.) Test No. : 62
Tide State : MID-EBB Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	12:03	32	3.5	S	1.0	29.7	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
				B	2.5	29.4	< 0.5	< 1	< 20	
						29.3	< 0.5	< 1	< 20	
M2	11:50	31	5.0	S	1.0	29.6	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
				B	4.0	29.1	< 0.5	< 1	< 20	
						29.1	< 0.5	< 1	< 20	
DM4	12:22	31	4.5	S	1.0	29.6	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
				B	3.5	29.4	< 0.5	< 1	< 20	
						29.4	< 0.5	< 1	< 20	

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Approved Signatory : K.M. Ho

Date :

6/7/2011

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

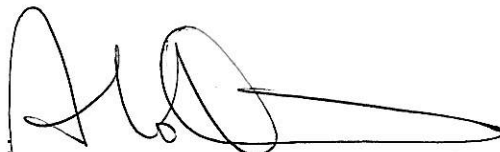
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 14/06/2011 (p.m.) Test No. : 62
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	16:57	31	3.1	S	1.0	29.8	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	
				B	2.1	29.8	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	
M2	16:43	31	3.9	S	1.0	30.2	< 0.5	< 1	< 20	Filling Work
						30.2	< 0.5	< 1	< 20	
				B	2.9	30.0	< 0.5	< 1	< 20	
						30.0	< 0.5	< 1	< 20	
DM4	17:14	31	3.3	S	1.0	30.8	< 0.5	< 1	< 20	
						30.8	< 0.5	< 1	< 20	
				B	2.3	30.8	< 0.5	< 1	< 20	
						30.8	< 0.5	< 1	< 20	

Certified by



Approved Signatory : K.M. Ho

Date : 6/7/2011

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

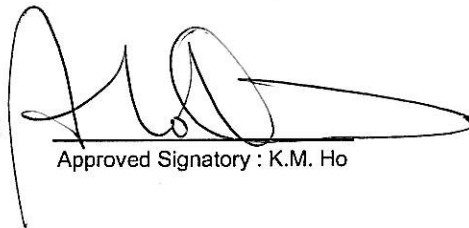
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 16/06/2011 (p.m.) Test No. : 63
Tide State : MID-EBB Weather : CLOUDY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	13:55	28	4.1	S	1.0	29.3	< 0.5	< 1	< 20	
						29.3	< 0.5	< 1	< 20	
				B	3.1	29.3	< 0.5	< 1	< 20	
						29.3	< 0.5	< 1	< 20	
M2	13:42	28	5.3	S	1.0	29.3	< 0.5	< 1	< 20	
						29.4	< 0.5	< 1	< 20	
				B	4.3	29.5	< 0.5	< 1	< 20	
						29.4	< 0.5	< 1	< 20	
DM4	14:15	28	4.4	S	1.0	29.5	< 0.5	< 1	< 20	
						29.5	< 0.5	< 1	< 20	
				B	3.4	29.4	< 0.5	< 1	< 20	
						29.5	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 16/06/2011 (a.m.) Test No. : 63
Tide State : MID-FLOOD Weather : CLOUDY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	8:55	29	4.7	S	1.0	29.6	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
				B	3.7	29.2	< 0.5	< 1	< 20	
						29.3	< 0.5	< 1	< 20	
M2	8:43	29	5.8	S	1.0	29.7	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
				B	4.8	29.4	< 0.5	< 1	< 20	
						29.5	< 0.5	< 1	< 20	
DM4	9:14	29	5.8	S	1.0	29.2	< 0.5	< 1	< 20	
						29.1	< 0.5	< 1	< 20	
				B	4.8	29.2	< 0.5	< 1	< 20	
						29.2	< 0.5	< 1	< 20	

Certified by :

Approved Signatory : K.M. Ho

Date :

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Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

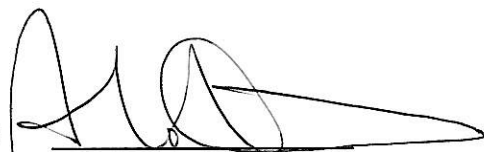
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 18/06/2011 (p.m.) Test No. : 64
Tide State : MID-EBB Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	15:09	32	4.0	S	1.0	29.5	< 0.5	< 1	< 20	
						29.4	< 0.5	< 1	< 20	
				B	3.0	29.2	< 0.5	< 1	< 20	
						29.2	< 0.5	< 1	< 20	
M2	14:56	32	4.7	S	1.0	29.4	< 0.5	< 1	< 20	
						29.4	< 0.5	< 1	< 20	
				B	3.7	29.1	< 0.5	< 1	< 20	
						29.0	< 0.5	< 1	< 20	
DM4	15:26	32	4.7	S	1.0	29.6	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
				B	3.7	29.3	< 0.5	< 1	< 20	
						29.3	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 18/06/2011 (a.m.) Test No. : 64
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	8:48	30	4.4	S	1.0	29.2	< 0.5	< 1	< 20	
						29.2	< 0.5	< 1	< 20	
				B	3.4	28.6	< 0.5	< 1	< 20	
						28.7	< 0.5	< 1	< 20	
M2	8:36	30	4.9	S	1.0	28.9	< 0.5	< 1	< 20	
						29.0	< 0.5	< 1	< 20	
				B	3.9	28.5	< 0.5	< 1	< 20	
						28.5	< 0.5	< 1	< 20	
DM4	9:07	30	5.1	S	1.0	28.6	< 0.5	< 1	< 20	
						28.7	< 0.5	< 1	< 20	
				B	4.1	28.6	< 0.5	< 1	< 20	
						28.6	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

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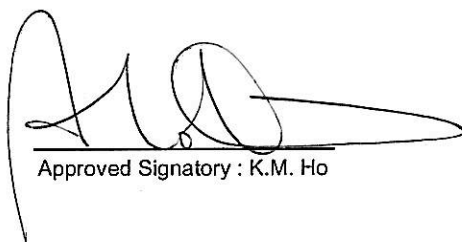
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 21/06/2011 (p.m.) Test No. : 65
Tide State : MID-EBB Weather : RAINY
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	17:00	30	3.8	S	1.0	29.8	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	
				B	2.8	28.8	< 0.5	< 1	< 20	
						28.8	< 0.5	< 1	< 20	
M2	16:41	30	5.1	S	1.0	30.0	< 0.5	< 1	< 20	
						30.1	< 0.5	< 1	< 20	
				B	4.1	28.8	< 0.5	< 1	< 20	
						28.9	< 0.5	< 1	< 20	
DM4	17:20	29	5.0	S	1.0	29.8	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
				B	4.0	28.6	< 0.5	< 1	< 20	
						28.7	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

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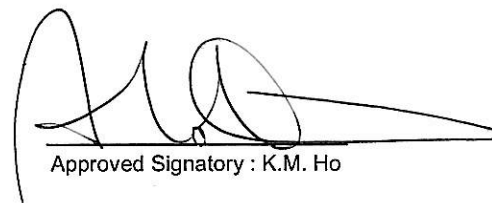
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 21/06/2011 (a.m.) Test No. : 65
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

Location	Time	Ambient Temp. °C	Depth of water m	Depth sampled m		Water Temp. °C	Heavy metal, µg/L			Remarks
							Cadmium Content	Chromium Content	Aluminium Content	
M1	11:03	33	4.2	S	1.0	29.6	< 0.5	< 1	< 20	
						29.6	< 0.5	< 1	< 20	
				B	3.2	29.3	< 0.5	< 1	< 20	
						29.2	< 0.5	< 1	< 20	
M2	10:50	32	5.5	S	1.0	29.6	< 0.5	< 1	< 20	
						29.7	< 0.5	< 1	< 20	
				B	4.5	28.7	< 0.5	< 1	< 20	
						28.6	< 0.5	< 1	< 20	
DM4	11:21	32	5.2	S	1.0	29.8	< 0.5	< 1	< 20	
						29.8	< 0.5	< 1	< 20	
				B	4.2	28.6	< 0.5	< 1	< 20	
						28.6	< 0.5	< 1	< 20	

Certified by :



Approved Signatory : K.M. Ho

Date :

6/7/2011

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1111926
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 26-MAY-2011	
C-O-C number : H020351,H020352	Date of issue : 04-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1111926 supersedes any previous reports with this reference. The completion date of analysis is 31-MAY-2011. 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 HK1111926 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-E-1	26-MAY-2011 09:49	HK1111926-001	<0.5	<1	<20
M1-S-E-2	26-MAY-2011 09:49	HK1111926-002	<0.5	<1	<20
M1-B-E-1	26-MAY-2011 09:49	HK1111926-003	<0.5	<1	<20
M1-B-E-2	26-MAY-2011 09:49	HK1111926-004	<0.5	<1	<20
M2-S-E-1	26-MAY-2011 09:36	HK1111926-005	<0.5	<1	<20
M2-S-E-2	26-MAY-2011 09:36	HK1111926-006	<0.5	<1	<20
M2-B-E-1	26-MAY-2011 09:36	HK1111926-007	<0.5	<1	<20
M2-B-E-2	26-MAY-2011 09:36	HK1111926-008	<0.5	<1	<20
DM4-S-E-1	26-MAY-2011 10:06	HK1111926-009	<0.5	<1	<20
DM4-S-E-2	26-MAY-2011 10:06	HK1111926-010	<0.5	<1	<20
DM4-B-E-1	26-MAY-2011 10:06	HK1111926-011	<0.5	<1	<20
DM4-B-E-2	26-MAY-2011 10:06	HK1111926-012	<0.5	<1	<20
M1-S-F-1	26-MAY-2011 14:18	HK1111926-013	<0.5	<1	<20
M1-S-F-2	26-MAY-2011 14:18	HK1111926-014	<0.5	<1	<20
M1-B-F-1	26-MAY-2011 14:18	HK1111926-015	<0.5	<1	<20
M1-B-F-2	26-MAY-2011 14:18	HK1111926-016	<0.5	<1	<20
M2-S-F-1	26-MAY-2011 14:06	HK1111926-017	<0.5	<1	<20
M2-S-F-2	26-MAY-2011 14:06	HK1111926-018	<0.5	<1	<20
M2-B-F-1	26-MAY-2011 14:06	HK1111926-019	<0.5	<1	<20
M2-B-F-2	26-MAY-2011 14:06	HK1111926-020	<0.5	<1	<20
DM4-S-F-1	26-MAY-2011 14:36	HK1111926-021	<0.5	<1	<20
DM4-S-F-2	26-MAY-2011 14:36	HK1111926-022	<0.5	<1	<20
DM4-B-F-1	26-MAY-2011 14:36	HK1111926-023	<0.5	<1	<20
DM4-B-F-2	26-MAY-2011 14:36	HK1111926-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1810149)									
HK1111926-002	M1-S-E-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
HK1111926-011	DW4-B-E-1		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1810150)									
HK1111926-002	M1-S-E-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
HK1111926-011	DW4-B-E-1		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1810151)									
HK1111926-022	DW4-S-F-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1810152)									
HK1111926-022	DW4-S-F-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1810149)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	88.8	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	96.0	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1810150)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	113	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1810151)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	96.7	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	106	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1810152)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	103	---	85	115	---	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1810149)										
HK1111926-001	M1-S-E-1		EG020: Cadmium	10 µg/L	93.6	---	75	125	---	---
			EG020: Chromium	10 µg/L	103	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1810150)										
HK1111926-001	M1-S-E-1		EG020: Aluminium	10 µg/L	99.9	---	75	125	---	---



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLOT: 1810151)												
HK1111926-021	DM4-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	98.0	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	108	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLOT: 1810152)												
HK1111926-021	DM4-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	101	---	---	75	125	---	---	---

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1112091
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 28-MAY-2011	
C-O-C number : H020353,H020370	Date of issue : 08-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1112091 supersedes any previous reports with this reference. The completion date of analysis is 31-MAY-2011. 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 HK1112091 : Sample(s) were received in a chilled condition.

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

Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-E-1	28-MAY-2011 11:33	HK1112091-001	<0.5	<1	<20
M1-S-E-2	28-MAY-2011 11:33	HK1112091-002	<0.5	<1	<20
M1-B-E-1	28-MAY-2011 11:33	HK1112091-003	<0.5	<1	<20
M1-B-E-2	28-MAY-2011 11:33	HK1112091-004	<0.5	<1	<20
M2-S-E-1	28-MAY-2011 11:19	HK1112091-005	<0.5	<1	<20
M2-S-E-2	28-MAY-2011 11:19	HK1112091-006	<0.5	<1	<20
M2-B-E-1	28-MAY-2011 11:19	HK1112091-007	<0.5	<1	<20
M2-B-E-2	28-MAY-2011 11:19	HK1112091-008	<0.5	<1	<20
DM4-S-E-1	28-MAY-2011 11:51	HK1112091-009	<0.5	<1	<20
DM4-S-E-2	28-MAY-2011 11:51	HK1112091-010	<0.5	<1	<20
DM4-B-E-1	28-MAY-2011 11:51	HK1112091-011	<0.5	<1	<20
DM4-B-E-2	28-MAY-2011 11:51	HK1112091-012	<0.5	<1	<20
M1-S-F-1	28-MAY-2011 16:39	HK1112091-013	<0.5	<1	<20
M1-S-F-2	28-MAY-2011 16:39	HK1112091-014	<0.5	<1	<20
M1-B-F-1	28-MAY-2011 16:39	HK1112091-015	<0.5	<1	<20
M1-B-F-2	28-MAY-2011 16:39	HK1112091-016	<0.5	<1	<20
M2-S-F-1	28-MAY-2011 16:27	HK1112091-017	<0.5	<1	<20
M2-S-F-2	28-MAY-2011 16:27	HK1112091-018	<0.5	<1	<20
M2-B-F-1	28-MAY-2011 16:27	HK1112091-019	<0.5	<1	<20
M2-B-F-2	28-MAY-2011 16:27	HK1112091-020	<0.5	<1	<20
DM4-S-F-1	28-MAY-2011 17:00	HK1112091-021	<0.5	<1	<20
DM4-S-F-2	28-MAY-2011 17:00	HK1112091-022	<0.5	<1	<20
DM4-B-F-1	28-MAY-2011 17:00	HK1112091-023	<0.5	<1	<20
DM4-B-F-2	28-MAY-2011 17:00	HK1112091-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1811111)									
HK1112091-002	M1-S-E-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
HK1112091-011	DW4-B-E-1		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1811113)									
HK1112091-002	M1-S-E-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
HK1112091-011	DW4-B-E-1		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1811114)									
HK1112091-022	DW4-S-F-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1811115)									
HK1112091-022	DW4-S-F-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	RPDs (%)	
								Low	High	
EG: Metals and Major Cations - Filtered (QC Lot: 1811111)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	93.8	---	85	115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	92.3	---	85	115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1811113)										
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	107	---	85	115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1811114)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	98.6	---	85	115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	104	---	85	115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1811115)										
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	104	---	85	115	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPDs (%)	
					Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QC Lot: 1811111)									
HK1112091-001	M1-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	97.4	---	75	125	---
		EG020: Chromium	7440-47-3	10 µg/L	104	---	75	125	---
EG: Metals and Major Cations - Filtered (QC Lot: 1811113)									
HK1112091-001	M1-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	105	---	75	125	---



Page Number : 4 of 4
 Client : FUGRO TECHNICAL SERVICES LIMITED
 Work Order : HK1112091

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPDs (%)		
					MS	MSD	Recovery Limits (%)	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1811114)										
HK1112091-021	DM4-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	94.3	---	75	125	----	----
		EG020: Chromium	7440-47-3	10 µg/L	102	---	75	125	----	----
EG: Metals and Major Cations - Filtered (QCLot: 1811115)										
HK1112091-021	DM4-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	115	---	75	125	----	----

CERTIFICATE OF ANALYSIS

Client :	FUGRO TECHNICAL SERVICES LIMITED	Laboratory :	ALS Technichem HK Pty Ltd	Page :	1 of 4
Contact :	MR JOHN HO	Contact :	Chan Kwok Fai, Godfrey	Work Order :	HK1112204
Address :	MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address :	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail :	jho@fugro.com.hk	E-mail :	Godfrey.Chan@alsenviro.com		
Telephone :	+852 2452 7142	Telephone :	+852 2610 1044		
Facsimile :	+852 2450 6138	Facsimile :	+852 2610 2021		
Project :	----	Quote number :	----		
Order number :	----	Date received :	31-MAY-2011		
C-O-C number :	H020371,H020372	Date of issue :	08-JUN-2011		
Site :	----	No. of samples :	Received : 24		
			Analysed : 24		

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1112204 supersedes any previous reports with this reference. The completion date of analysis is 03-JUN-2011. 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 HK1112204 : Sample(s) were received in a chilled condition.

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

Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit	
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered
M1-E-S-1	31-MAY-2011 13:00	HK1112204-001	<0.5	<1
M1-E-S-2	31-MAY-2011 13:00	HK1112204-002	<0.5	<1
M1-E-B-1	31-MAY-2011 13:00	HK1112204-003	<0.5	<1
M1-E-B-2	31-MAY-2011 13:00	HK1112204-004	<0.5	<1
M2-E-S-1	31-MAY-2011 13:14	HK1112204-005	<0.5	<1
M2-E-S-2	31-MAY-2011 13:14	HK1112204-006	<0.5	<1
M2-E-B-1	31-MAY-2011 13:14	HK1112204-007	<0.5	<1
M2-E-B-2	31-MAY-2011 13:14	HK1112204-008	<0.5	<1
DM4-E-S-1	31-MAY-2011 13:39	HK1112204-009	<0.5	<1
DM4-E-S-2	31-MAY-2011 13:39	HK1112204-010	<0.5	<1
DM4-E-B-1	31-MAY-2011 13:39	HK1112204-011	<0.5	<1
DM4-E-B-2	31-MAY-2011 13:39	HK1112204-012	<0.5	<1
M1-S-F-1	31-MAY-2011 16:57	HK1112204-013	<0.5	<1
M1-S-F-2	31-MAY-2011 16:57	HK1112204-014	<0.5	<1
M1-B-F-1	31-MAY-2011 16:57	HK1112204-015	<0.5	<1
M1-B-F-2	31-MAY-2011 16:57	HK1112204-016	<0.5	<1
M2-S-F-1	31-MAY-2011 16:45	HK1112204-017	<0.5	<1
M2-S-F-2	31-MAY-2011 16:45	HK1112204-018	<0.5	<1
M2-B-F-1	31-MAY-2011 16:45	HK1112204-019	<0.5	<1
M2-B-F-2	31-MAY-2011 16:45	HK1112204-020	<0.5	<1
DM4-S-F-1	31-MAY-2011 17:18	HK1112204-021	<0.5	<1
DM4-S-F-2	31-MAY-2011 17:18	HK1112204-022	<0.5	<1
DM4-B-F-1	31-MAY-2011 17:18	HK1112204-023	<0.5	<1
DM4-B-F-2	31-MAY-2011 17:18	HK1112204-024	<0.5	<1



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1814361)									
HK1112204-002	M1-E-S-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
HK1112204-011	DW4-E-B-1	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1814362)									
HK1112204-002	M1-E-S-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
HK1112204-011	DW4-E-B-1	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1814363)									
HK1112204-022	DW4-S-F-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1814364)									
HK1112204-022	DW4-S-F-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1814361)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	94.0	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	106	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1814362)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	94.7	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1814363)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	93.6	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	91.9	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1814364)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	90.7	---	85	115	---	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1814361)										
HK1112204-001	M1-E-S-1	EG020: Cadmium	7440-43-9	10 µg/L	93.8	---	75	125	---	---
		EG020: Chromium	7440-47-3	10 µg/L	101	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1814362)										
HK1112204-001	M1-E-S-1	EG020: Aluminium	7429-90-5	10 µg/L	91.0	---	75	125	---	---



Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPDs (%)		
					MS	MSD	Recovery Limits (%)	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1814363)										
HK112204-021	DM4-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	100	---	75	125	----	----
		EG020: Chromium	7440-47-3	10 µg/L	102	---	75	125	----	----
EG: Metals and Major Cations - Filtered (QCLot: 1814364)										
HK112204-021	DM4-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	93.4	---	75	125	----	----

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1112470
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 02-JUN-2011	
C-O-C number : H020373-H020375	Date of issue : 14-JUN-2011	
Site : ----	No. of samples : - Received : 26	
		- Analysed : 26

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1112470 supersedes any previous reports with this reference. The completion date of analysis is 03-JUN-2011. 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 HK1112470 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong. Chapter 553. Section 6.

Signatory	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit	EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M2-F-S-1	02-JUN-2011 08:45	HK1112470-001		<0.5	<1	<20
M2-F-S-2	02-JUN-2011 08:45	HK1112470-002		<0.5	<1	<20
M2-F-M-1	02-JUN-2011 08:45	HK1112470-003		<0.5	<1	<20
M2-F-M-2	02-JUN-2011 08:45	HK1112470-004		<0.5	<1	<20
M2-F-B-1	02-JUN-2011 08:45	HK1112470-005		<0.5	<1	<20
M2-F-B-2	02-JUN-2011 08:45	HK1112470-006		<0.5	<1	<20
M1-F-S-1	02-JUN-2011 09:05	HK1112470-007		<0.5	<1	<20
M1-F-S-2	02-JUN-2011 09:05	HK1112470-008		<0.5	<1	<20
M1-F-B-1	02-JUN-2011 09:05	HK1112470-009		<0.5	<1	<20
M1-F-B-2	02-JUN-2011 09:05	HK1112470-010		<0.5	<1	<20
DM4-F-S-1	02-JUN-2011 09:23	HK1112470-011		<0.5	<1	<20
DM4-F-S-2	02-JUN-2011 09:23	HK1112470-012		<0.5	<1	<20
DM4-F-B-1	02-JUN-2011 09:23	HK1112470-013		<0.5	<1	<20
DM4-F-B-2	02-JUN-2011 09:23	HK1112470-014		<0.5	<1	<20
M2-E-S-1	02-JUN-2011 13:36	HK1112470-015		<0.5	<1	<20
M2-E-S-2	02-JUN-2011 13:36	HK1112470-016		<0.5	<1	<20
M2-E-B-1	02-JUN-2011 13:36	HK1112470-017		<0.5	<1	<20
M2-E-B-2	02-JUN-2011 13:36	HK1112470-018		<0.5	<1	<20
M1-E-S-1	02-JUN-2011 13:50	HK1112470-019		<0.5	<1	<20
M1-E-S-2	02-JUN-2011 13:50	HK1112470-020		<0.5	<1	<20
M1-E-B-1	02-JUN-2011 13:50	HK1112470-021		<0.5	<1	<20
M1-E-B-2	02-JUN-2011 13:50	HK1112470-022		<0.5	<1	<20
DM4-E-S-1	02-JUN-2011 14:09	HK1112470-023		<0.5	<1	<20
DM4-E-S-2	02-JUN-2011 14:09	HK1112470-024		<0.5	<1	<20
DM4-E-B-1	02-JUN-2011 14:09	HK1112470-025		<0.5	<1	<20
DM4-E-B-2	02-JUN-2011 14:09	HK1112470-026		<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1816274)									
HK112470-002	M2-F-S-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	
HK112470-011	DM4-F-S-1	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	
EG: Metals and Major Cations - Filtered (QC Lot: 1816275)									
HK112470-002	M2-F-S-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	
HK112470-011	DM4-F-S-1	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	
EG: Metals and Major Cations - Filtered (QC Lot: 1816276)									
HK112470-022	M1-E-B-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	
EG: Metals and Major Cations - Filtered (QC Lot: 1816277)									
HK112470-022	M1-E-B-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	RPDs (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1816274)									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	98.4	---	85 115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	100	---	85 115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1816275)									
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	87.0	---	85 115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1816276)									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	104	---	85 115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	99.2	---	85 115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1816277)									
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	92.2	---	85 115	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPDs (%)	Control Limit
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1816274)									
HK112470-001	M2-F-S-1	EG020: Cadmium	7440-43-9	10 µg/L	94.1	---	75 125	---	---
		EG020: Chromium	7440-47-3	10 µg/L	99.0	---	75 125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1816275)									
HK112470-001	M2-F-S-1	EG020: Aluminium	7429-90-5	10 µg/L	88.5	---	75 125	---	---



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLOT: 1816276)												
HK112470-021	M1-E-B-1	EG020: Cadmium	7440-43-9	10 µg/L	93.1	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	93.0	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLOT: 1816277)												
HK112470-021	M1-E-B-1	EG020: Aluminium	7429-90-5	10 µg/L	76.2	---	---	75	125	---	---	---

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1112676
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 04-JUN-2011	
C-O-C number : H015183-H015184	Date of issue : 15-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1112676 supersedes any previous reports with this reference. The completion date of analysis is 09-JUN-2011. 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 HK1112676 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong. Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-F-1	04-JUN-2011 08:49	HK1112676-001	<0.5	<1	<20
M1-S-F-2	04-JUN-2011 08:49	HK1112676-002	<0.5	<1	<20
M1-B-F-1	04-JUN-2011 08:49	HK1112676-003	<0.5	<1	<20
M1-B-F-2	04-JUN-2011 08:49	HK1112676-004	<0.5	<1	<20
M2-S-F-1	04-JUN-2011 08:36	HK1112676-005	<0.5	<1	<20
M2-S-F-2	04-JUN-2011 08:36	HK1112676-006	<0.5	<1	<20
M2-B-F-1	04-JUN-2011 08:36	HK1112676-007	<0.5	<1	<20
M2-B-F-2	04-JUN-2011 08:36	HK1112676-008	<0.5	<1	<20
DM4-S-F-1	04-JUN-2011 09:08	HK1112676-009	<0.5	<1	<20
DM4-S-F-2	04-JUN-2011 09:08	HK1112676-010	<0.5	<1	<20
DM4-B-F-1	04-JUN-2011 09:08	HK1112676-011	<0.5	<1	<20
DM4-B-F-2	04-JUN-2011 09:08	HK1112676-012	<0.5	<1	<20
M1-S-E-1	04-JUN-2011 15:01	HK1112676-013	<0.5	<1	<20
M1-S-E-2	04-JUN-2011 15:01	HK1112676-014	<0.5	<1	<20
M1-B-E-1	04-JUN-2011 15:01	HK1112676-015	<0.5	<1	<20
M1-B-E-2	04-JUN-2011 15:01	HK1112676-016	<0.5	<1	<20
M2-S-E-1	04-JUN-2011 14:48	HK1112676-017	<0.5	<1	<20
M2-S-E-2	04-JUN-2011 14:48	HK1112676-018	<0.5	<1	<20
M2-B-E-1	04-JUN-2011 14:48	HK1112676-019	<0.5	<1	<20
M2-B-E-2	04-JUN-2011 14:48	HK1112676-020	<0.5	<1	<20
DM4-S-E-1	04-JUN-2011 15:21	HK1112676-021	<0.5	<1	<20
DM4-S-E-2	04-JUN-2011 15:21	HK1112676-022	<0.5	<1	<20
DM4-B-E-1	04-JUN-2011 15:21	HK1112676-023	<0.5	<1	<20
DM4-B-E-2	04-JUN-2011 15:21	HK1112676-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1823856)									
HK1112676-002	M1-S-F-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
HK1112676-011	DW4-B-F-1	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1823857)									
HK1112676-002	M1-S-F-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
HK1112676-011	DW4-B-F-1	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1823858)									
HK1112676-022	DW4-S-E-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
HK1112770-007	Anonymous	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1823859)									
HK1112676-022	DW4-S-E-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
HK1112770-007	Anonymous	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER									
Method Blank (MB) Report					Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	RPDs (%)
					Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QC Lot: 1823856)									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	98.8	---	85 115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	109	---	85 115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823857)									
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	106	---	85 115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823858)									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	95.2	---	85 115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	107	---	85 115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823859)									
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	103	---	85 115	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER									
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPDs (%)	Control Limit
					Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QC Lot: 1823856)									
HK1112676-001	M1-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	105	---	75 125	---	---
		EG020: Chromium	7440-47-3	10 µg/L	109	---	75 125	---	---



Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPDs (%)		
					MS	MSD	Recovery Limits (%)	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1823857)										
HK1112676-001	M1-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	107	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1823858)										
HK1112676-021	DM4-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	88.5	---	75	125	---	---
		EG020: Chromium	7440-47-3	10 µg/L	98.8	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1823859)										
HK1112676-021	DM4-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	106	---	75	125	---	---

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1112770
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Telephone : +852 2452 7142	Telephone : +852 2610 1044	
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Project : ----	Quote number : ----	
Order number : ----	Date received : 07-JUN-2011	
C-O-C number : H015181-H015182	Date of issue : 16-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1112770 supersedes any previous reports with this reference. The completion date of analysis is 09-JUN-2011. 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 HK1112770 : Sample(s) were received in a chilled condition.

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

Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-F-1	07-JUN-2011 10:19	HK1112770-001	<0.5	<1	<20
M1-S-F-2	07-JUN-2011 10:19	HK1112770-002	<0.5	<1	<20
M1-B-F-1	07-JUN-2011 10:19	HK1112770-003	<0.5	<1	<20
M1-B-F-2	07-JUN-2011 10:19	HK1112770-004	<0.5	<1	<20
M2-S-F-1	07-JUN-2011 10:07	HK1112770-005	<0.5	<1	<20
M2-S-F-2	07-JUN-2011 10:07	HK1112770-006	<0.5	<1	<20
M2-B-F-1	07-JUN-2011 10:07	HK1112770-007	<0.5	<1	<20
M2-B-F-2	07-JUN-2011 10:07	HK1112770-008	<0.5	<1	<20
DM4-S-F-1	07-JUN-2011 10:37	HK1112770-009	<0.5	<1	<20
DM4-S-F-2	07-JUN-2011 10:37	HK1112770-010	<0.5	<1	<20
DM4-B-F-1	07-JUN-2011 10:37	HK1112770-011	<0.5	<1	<20
DM4-B-F-2	07-JUN-2011 10:37	HK1112770-012	<0.5	<1	<20
M1-S-E-1	07-JUN-2011 16:40	HK1112770-013	<0.5	<1	<20
M1-S-E-2	07-JUN-2011 16:40	HK1112770-014	<0.5	<1	<20
M1-B-E-1	07-JUN-2011 16:40	HK1112770-015	<0.5	<1	<20
M1-B-E-2	07-JUN-2011 16:40	HK1112770-016	<0.5	<1	<20
M2-S-E-1	07-JUN-2011 16:27	HK1112770-017	<0.5	<1	<20
M2-S-E-2	07-JUN-2011 16:27	HK1112770-018	<0.5	<1	<20
M2-B-E-1	07-JUN-2011 16:27	HK1112770-019	<0.5	<1	<20
M2-B-E-2	07-JUN-2011 16:27	HK1112770-020	<0.5	<1	<20
DM4-S-E-1	07-JUN-2011 17:02	HK1112770-021	<0.5	<1	<20
DM4-S-E-2	07-JUN-2011 17:02	HK1112770-022	<0.5	<1	<20
DM4-B-E-1	07-JUN-2011 17:02	HK1112770-023	<0.5	<1	<20
DM4-B-E-2	07-JUN-2011 17:02	HK1112770-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1823858)									
HK1112676-022	Anonymous		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
HK1112770-007	M2-B-F-1		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1823859)									
HK1112676-022	Anonymous		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
HK1112770-007	M2-B-F-1		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1823860)									
HK1112770-018	M2-S-E-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1823861)									
HK1112770-018	M2-S-E-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
Matrix: WATER											
EG: Metals and Major Cations - Filtered (QC Lot: 1823858)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	95.2	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	107	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823859)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	103	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823860)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	92.0	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	102	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823861)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	106	---	85	115	---	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
Matrix: WATER										
EG: Metals and Major Cations - Filtered (QC Lot: 1823858)										
HK1112676-021	Anonymous	EG020: Cadmium	7440-43-9	10 µg/L	88.5	---	75	125	---	---
		EG020: Chromium	7440-47-3	10 µg/L	98.8	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1823859)										
HK1112676-021	Anonymous	EG020: Aluminium	7429-90-5	10 µg/L	106	---	75	125	---	---



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1823860)												
HK1112770-017	M2-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	105	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	106	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1823861)												
HK1112770-017	M2-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	109	---	---	75	125	---	---	---

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1113004
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 09-JUN-2011	
C-O-C number : H015179-H015180	Date of issue : 20-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1113004 supersedes any previous reports with this reference. The completion date of analysis is 16-JUN-2011. 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 HK1113004 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-F-1	09-JUN-2011 12:15	HK1113004-001	<0.5	<1	<20
M1-S-F-2	09-JUN-2011 12:15	HK1113004-002	<0.5	<1	<20
M1-B-F-1	09-JUN-2011 12:15	HK1113004-003	<0.5	<1	<20
M1-B-F-2	09-JUN-2011 12:15	HK1113004-004	<0.5	<1	<20
M2-S-F-1	09-JUN-2011 12:03	HK1113004-005	<0.5	<1	<20
M2-S-F-2	09-JUN-2011 12:03	HK1113004-006	<0.5	<1	<20
M2-B-F-1	09-JUN-2011 12:03	HK1113004-007	<0.5	<1	<20
M2-B-F-2	09-JUN-2011 12:03	HK1113004-008	<0.5	<1	<20
DM4-S-F-1	09-JUN-2011 12:33	HK1113004-009	<0.5	<1	<20
DM4-S-F-2	09-JUN-2011 12:33	HK1113004-010	<0.5	<1	<20
DM4-B-F-1	09-JUN-2011 12:33	HK1113004-011	<0.5	<1	<20
DM4-B-F-2	09-JUN-2011 12:33	HK1113004-012	<0.5	<1	<20
M1-S-E-1	09-JUN-2011 16:53	HK1113004-013	<0.5	<1	<20
M1-S-E-2	09-JUN-2011 16:53	HK1113004-014	<0.5	<1	<20
M1-B-E-1	09-JUN-2011 16:53	HK1113004-015	<0.5	<1	<20
M1-B-E-2	09-JUN-2011 16:53	HK1113004-016	<0.5	<1	<20
M2-S-E-1	09-JUN-2011 16:42	HK1113004-017	<0.5	<1	<20
M2-S-E-2	09-JUN-2011 16:42	HK1113004-018	<0.5	<1	<20
M2-B-E-1	09-JUN-2011 16:42	HK1113004-019	<0.5	<1	<20
M2-B-E-2	09-JUN-2011 16:42	HK1113004-020	<0.5	<1	<20
DM4-S-E-1	09-JUN-2011 17:12	HK1113004-021	<0.5	<1	<20
DM4-S-E-2	09-JUN-2011 17:12	HK1113004-022	<0.5	<1	<20
DM4-B-E-1	09-JUN-2011 17:12	HK1113004-023	<0.5	<1	<20
DM4-B-E-2	09-JUN-2011 17:12	HK1113004-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1827288)									
HK1113004-002	M1-S-F-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	
HK1113004-011	DW4-B-F-1	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	
EG: Metals and Major Cations - Filtered (QC Lot: 1827289)									
HK1113004-002	M1-S-F-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	
HK1113004-011	DW4-B-F-1	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	
EG: Metals and Major Cations - Filtered (QC Lot: 1827290)									
HK1113004-022	DW4-S-E-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	
EG: Metals and Major Cations - Filtered (QC Lot: 1827291)									
HK1113004-022	DW4-S-E-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	RPDs (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QCLot: 1827288)									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	88.3	---	85	115
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	92.3	---	85	115
EG: Metals and Major Cations - Filtered (QCLot: 1827289)									
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	107	---	85	115
EG: Metals and Major Cations - Filtered (QCLot: 1827290)									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	95.0	---	85	115
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	91.1	---	85	115
EG: Metals and Major Cations - Filtered (QCLot: 1827291)									
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	106	---	85	115

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPDs (%)	Control Limit
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QCLot: 1827288)									
HK1113004-001	M1-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	104	---	75	125	---
		EG020: Chromium	7440-47-3	10 µg/L	111	---	75	125	---
EG: Metals and Major Cations - Filtered (QCLot: 1827289)									
HK1113004-001	M1-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	114	---	75	125	---



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1827290)												
HK1113004-021	DM4-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	93.7	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	96.7	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1827291)												
HK1113004-021	DM4-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	96.7	---	---	75	125	---	---	---

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1113123
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 11-JUN-2011	
C-O-C number : H020405-H020406	Date of issue : 21-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1113123 supersedes any previous reports with this reference. The completion date of analysis is 16-JUN-2011. 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 HK1113123 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit	
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered
M1-S-E-1	11-JUN-2011 09:44	HK1113123-001	<0.5	<1
M1-S-E-2	11-JUN-2011 09:44	HK1113123-002	<0.5	<1
M1-B-E-1	11-JUN-2011 09:44	HK1113123-003	<0.5	<1
M1-B-E-2	11-JUN-2011 09:44	HK1113123-004	<0.5	<1
M2-S-E-1	11-JUN-2011 09:31	HK1113123-005	<0.5	<1
M2-S-E-2	11-JUN-2011 09:31	HK1113123-006	<0.5	<1
M2-B-E-1	11-JUN-2011 09:31	HK1113123-007	<0.5	<1
M2-B-E-2	11-JUN-2011 09:31	HK1113123-008	<0.5	<1
DM4-S-E-1	11-JUN-2011 10:03	HK1113123-009	<0.5	<1
DM4-S-E-2	11-JUN-2011 10:03	HK1113123-010	<0.5	<1
DM4-B-E-1	11-JUN-2011 10:03	HK1113123-011	<0.5	<1
DM4-B-E-2	11-JUN-2011 10:03	HK1113123-012	<0.5	<1
M1-S-F-1	11-JUN-2011 15:37	HK1113123-013	<0.5	<1
M1-S-F-2	11-JUN-2011 15:37	HK1113123-014	<0.5	<1
M1-B-F-1	11-JUN-2011 15:37	HK1113123-015	<0.5	<1
M1-B-F-2	11-JUN-2011 15:37	HK1113123-016	<0.5	<1
M2-S-F-1	11-JUN-2011 15:26	HK1113123-017	<0.5	<1
M2-S-F-2	11-JUN-2011 15:26	HK1113123-018	<0.5	<1
M2-B-F-1	11-JUN-2011 15:26	HK1113123-019	<0.5	<1
M2-B-F-2	11-JUN-2011 15:26	HK1113123-020	<0.5	<1
DM4-S-F-1	11-JUN-2011 15:57	HK1113123-021	<0.5	<1
DM4-S-F-2	11-JUN-2011 15:57	HK1113123-022	<0.5	<1
DM4-B-F-1	11-JUN-2011 15:57	HK1113123-023	<0.5	<1
DM4-B-F-2	11-JUN-2011 15:57	HK1113123-024	<0.5	<1



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1828395)									
HK1113123-002	M1-S-E-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
HK1113123-011	DW4-B-E-1		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1828396)									
HK1113123-002	M1-S-E-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
HK1113123-011	DW4-B-E-1		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1828397)									
HK1113123-022	DW4-S-F-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1828398)									
HK1113123-022	DW4-S-F-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1828395)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	94.2	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	97.7	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1828396)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	106	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1828397)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	90.4	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	90.9	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1828398)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	106	---	85	115	---	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1828395)										
HK1113123-001	M1-S-E-1		EG020: Cadmium	10 µg/L	110	---	75	125	---	---
			EG020: Chromium	10 µg/L	109	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 1828396)										
HK1113123-001	M1-S-E-1		EG020: Aluminium	10 µg/L	111	---	75	125	---	---



Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPDs (%)		
					MS	MSD	Recovery Limits (%)	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLOt: 1828397)										
HK1113123-021	DM4-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	87.7	---	75	125	----	----
		EG020: Chromium	7440-47-3	10 µg/L	89.9	---	75	125	----	----
EG: Metals and Major Cations - Filtered (QCLOt: 1828398)										
HK1113123-021	DM4-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	98.4	---	75	125	----	----

CERTIFICATE OF ANALYSIS

Client :	FUGRO TECHNICAL SERVICES LIMITED	Laboratory :	ALS Technichem HK Pty Ltd	Page :	1 of 4
Contact :	MR JOHN HO	Contact :	Chan Kwok Fai, Godfrey	Work Order :	HK1113381
Address :	MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address :	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail :	jho@fugro.com.hk	E-mail :	Godfrey.Chan@alsenviro.com		
Telephone :	+852 2452 7142	Telephone :	+852 2610 1044	Date received :	14-JUN-2011
Facsimile :	+852 2450 6138	Facsimile :	+852 2610 2021	Date of issue :	23-JUN-2011
Project :	----	Quote number :	----	No. of samples :	Received : 24
Order number :	----				Analysed : 24
C-O-C number :	H020407-H020408				
Site :	----				

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1113381 supersedes any previous reports with this reference. The completion date of analysis is 16-JUN-2011. 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 HK1113381 :
 Sample(s) were received in a chilled condition.
 Water sample(s) analysed and reported on an as received basis.
 Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories.
 Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong. Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-E-1	14-JUN-2011 12:03	HK1113381-001	<0.5	<1	<20
M1-S-E-2	14-JUN-2011 12:03	HK1113381-002	<0.5	<1	<20
M1-B-E-1	14-JUN-2011 12:03	HK1113381-003	<0.5	<1	<20
M1-B-E-2	14-JUN-2011 12:03	HK1113381-004	<0.5	<1	<20
M2-S-E-1	14-JUN-2011 11:50	HK1113381-005	<0.5	<1	<20
M2-S-E-2	14-JUN-2011 11:50	HK1113381-006	<0.5	<1	<20
M2-B-E-1	14-JUN-2011 11:50	HK1113381-007	<0.5	<1	<20
M2-B-E-2	14-JUN-2011 11:50	HK1113381-008	<0.5	<1	<20
DM4-S-E-1	14-JUN-2011 12:22	HK1113381-009	<0.5	<1	<20
DM4-S-E-2	14-JUN-2011 12:22	HK1113381-010	<0.5	<1	<20
DM4-B-E-1	14-JUN-2011 12:22	HK1113381-011	<0.5	<1	<20
DM4-B-E-2	14-JUN-2011 12:22	HK1113381-012	<0.5	<1	<20
M1-S-F-1	14-JUN-2011 16:57	HK1113381-013	<0.5	<1	<20
M1-S-F-2	14-JUN-2011 16:57	HK1113381-014	<0.5	<1	<20
M1-B-F-1	14-JUN-2011 16:57	HK1113381-015	<0.5	<1	<20
M1-B-F-2	14-JUN-2011 16:57	HK1113381-016	<0.5	<1	<20
M2-S-F-1	14-JUN-2011 16:43	HK1113381-017	<0.5	<1	<20
M2-S-F-2	14-JUN-2011 16:43	HK1113381-018	<0.5	<1	<20
M2-B-F-1	14-JUN-2011 16:43	HK1113381-019	<0.5	<1	<20
M2-B-F-2	14-JUN-2011 16:43	HK1113381-020	<0.5	<1	<20
DM4-S-F-1	14-JUN-2011 17:14	HK1113381-021	<0.5	<1	<20
DM4-S-F-2	14-JUN-2011 17:14	HK1113381-022	<0.5	<1	<20
DM4-B-F-1	14-JUN-2011 17:14	HK1113381-023	<0.5	<1	<20
DM4-B-F-2	14-JUN-2011 17:14	HK1113381-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1832085)									
HK1113381-002	M1-S-E-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
HK1113381-011	DW4-B-E-1		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1832086)									
HK1113381-002	M1-S-E-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
HK1113381-011	DW4-B-E-1		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1832087)									
HK1113381-022	DW4-S-F-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1832088)									
HK1113381-022	DW4-S-F-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	RPDs (%)	
								Low	High	
EG: Metals and Major Cations - Filtered (QC Lot: 1832085)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	91.6	---	85	115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	94.5	---	85	115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1832086)										
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	101	---	85	115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1832087)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	87.9	---	85	115	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	90.0	---	85	115	---
EG: Metals and Major Cations - Filtered (QC Lot: 1832088)										
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	103	---	85	115	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPDs (%)
					Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1832085)								
HK1113381-001	M1-S-E-1		EG020: Cadmium	10 µg/L	104	---	75	125
			EG020: Chromium	10 µg/L	106	---	75	125
EG: Metals and Major Cations - Filtered (QC Lot: 1832086)								
HK1113381-001	M1-S-E-1		EG020: Aluminium	10 µg/L	97.2	---	75	125



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLOT: 1832087)												
HK1113381-021	DM4-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	90.4	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	94.2	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLOT: 1832088)												
HK1113381-021	DM4-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	79.2	---	---	75	125	---	---	---

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1113676
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 16-JUN-2011	
C-O-C number : H020409-H020410	Date of issue : 24-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1113676 supersedes any previous reports with this reference. The completion date of analysis is 21-JUN-2011. 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 HK1113676 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong. Chapter 553. Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-F-1	16-JUN-2011 08:55	HK1113676-001	<0.5	<1	<20
M1-S-F-2	16-JUN-2011 08:55	HK1113676-002	<0.5	<1	<20
M1-B-F-1	16-JUN-2011 08:55	HK1113676-003	<0.5	<1	<20
M1-B-F-2	16-JUN-2011 08:55	HK1113676-004	<0.5	<1	<20
M2-S-F-1	16-JUN-2011 08:43	HK1113676-005	<0.5	<1	<20
M2-S-F-2	16-JUN-2011 08:43	HK1113676-006	<0.5	<1	<20
M2-B-F-1	16-JUN-2011 08:43	HK1113676-007	<0.5	<1	<20
M2-B-F-2	16-JUN-2011 08:43	HK1113676-008	<0.5	<1	<20
DM4-S-F-1	16-JUN-2011 09:14	HK1113676-009	<0.5	<1	<20
DM4-S-F-2	16-JUN-2011 09:14	HK1113676-010	<0.5	<1	<20
DM4-B-F-1	16-JUN-2011 09:14	HK1113676-011	<0.5	<1	<20
DM4-B-F-2	16-JUN-2011 09:14	HK1113676-012	<0.5	<1	<20
M1-S-E-1	16-JUN-2011 13:55	HK1113676-013	<0.5	<1	<20
M1-S-E-2	16-JUN-2011 13:55	HK1113676-014	<0.5	<1	<20
M1-B-E-1	16-JUN-2011 13:55	HK1113676-015	<0.5	<1	<20
M1-B-E-2	16-JUN-2011 13:55	HK1113676-016	<0.5	<1	<20
M2-S-E-1	16-JUN-2011 13:42	HK1113676-017	<0.5	<1	<20
M2-S-E-2	16-JUN-2011 13:42	HK1113676-018	<0.5	<1	<20
M2-B-E-1	16-JUN-2011 13:42	HK1113676-019	<0.5	<1	<20
M2-B-E-2	16-JUN-2011 13:42	HK1113676-020	<0.5	<1	<20
DM4-S-E-1	16-JUN-2011 14:15	HK1113676-021	<0.5	<1	<20
DM4-S-E-2	16-JUN-2011 14:15	HK1113676-022	<0.5	<1	<20
DM4-B-E-1	16-JUN-2011 14:15	HK1113676-023	<0.5	<1	<20
DM4-B-E-2	16-JUN-2011 14:15	HK1113676-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1838419)									
HK1113676-002	M1-S-F-2	EG020: Cadmium		7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
		EG020: Chromium		7440-47-3	1	µg/L	<1	<1	0.0
HK1113676-011	DW4-B-F-1	EG020: Cadmium		7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
		EG020: Chromium		7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1838420)									
HK1113676-002	M1-S-F-2	EG020: Aluminium		7429-90-5	20	µg/L	<20	<20	0.0
HK1113676-011	DW4-B-F-1	EG020: Aluminium		7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1838421)									
HK1113676-022	DW4-S-E-2	EG020: Cadmium		7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
		EG020: Chromium		7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1838422)									
HK1113676-022	DW4-S-E-2	EG020: Aluminium		7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report					Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	RPDs (%)	
								Low	High	
Matrix: WATER										
EG: Metals and Major Cations - Filtered (QC Lot: 1838419)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	93.0	----	85	115	----
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	92.4	----	85	115	----
EG: Metals and Major Cations - Filtered (QC Lot: 1838420)										
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	96.1	----	85	115	----
EG: Metals and Major Cations - Filtered (QC Lot: 1838421)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	110	----	85	115	----
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	99.0	----	85	115	----
EG: Metals and Major Cations - Filtered (QC Lot: 1838422)										
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	100	----	85	115	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPDs (%)	
								Low	High	
Matrix: WATER										
EG: Metals and Major Cations - Filtered (QC Lot: 1838419)										
HK1113676-001	M1-S-F-1	EG020: Cadmium		7440-43-9	10 µg/L	98.0	----	75	125	----
		EG020: Chromium		7440-47-3	10 µg/L	95.0	----	75	125	----
EG: Metals and Major Cations - Filtered (QC Lot: 1838420)										
HK1113676-001	M1-S-F-1	EG020: Aluminium		7429-90-5	10 µg/L	93.5	----	75	125	----



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1838421)												
HK1113676-021	DM4-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	108	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	104	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1838422)												
HK1113676-021	DM4-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	91.1	---	---	75	125	---	---	---

CERTIFICATE OF ANALYSIS

Client :	FUGRO TECHNICAL SERVICES LIMITED	Laboratory :	ALS Technichem HK Pty Ltd	Page :	1 of 4
Contact :	MR JOHN HO	Contact :	Chan Kwok Fai, Godfrey	Work Order :	HK1113869
Address :	MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address :	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail :	jho@fugro.com.hk	E-mail :	Godfrey.Chan@alsenviro.com		
Telephone :	+852 2452 7142	Telephone :	+852 2610 1044	Date received :	18-JUN-2011
Facsimile :	+852 2450 6138	Facsimile :	+852 2610 2021	Date of issue :	24-JUN-2011
Project :	----	Quote number :	----	No. of samples :	Received : 24
Order number :	----				Analysed : 24
C-O-C number :	H020435-H020436				
Site :	----				

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1113869 supersedes any previous reports with this reference. The completion date of analysis is 23-JUN-2011. 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 HK1113869 :
 Sample(s) were received in a chilled condition.
 Water sample(s) analysed and reported on an as received basis.
 Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories.
 Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong. Chapter 553, Section 6.

Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit		
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered	EG020: Aluminium 20 µg/L EG: Metals and Major Cations - Filtered
M1-S-F-1	18-JUN-2011 08:48	HK1113869-001	<0.5	<1	<20
M1-S-F-2	18-JUN-2011 08:48	HK1113869-002	<0.5	<1	<20
M1-B-F-1	18-JUN-2011 08:48	HK1113869-003	<0.5	<1	<20
M1-B-F-2	18-JUN-2011 08:48	HK1113869-004	<0.5	<1	<20
M2-S-F-1	18-JUN-2011 08:36	HK1113869-005	<0.5	<1	<20
M2-S-F-2	18-JUN-2011 08:36	HK1113869-006	<0.5	<1	<20
M2-B-F-1	18-JUN-2011 08:36	HK1113869-007	<0.5	<1	<20
M2-B-F-2	18-JUN-2011 08:36	HK1113869-008	<0.5	<1	<20
DM4-S-F-1	18-JUN-2011 09:07	HK1113869-009	<0.5	<1	<20
DM4-S-F-2	18-JUN-2011 09:07	HK1113869-010	<0.5	<1	<20
DM4-B-F-1	18-JUN-2011 09:07	HK1113869-011	<0.5	<1	<20
DM4-B-F-2	18-JUN-2011 09:07	HK1113869-012	<0.5	<1	<20
M1-S-E-1	18-JUN-2011 15:09	HK1113869-013	<0.5	<1	<20
M1-S-E-2	18-JUN-2011 15:09	HK1113869-014	<0.5	<1	<20
M1-B-E-1	18-JUN-2011 15:09	HK1113869-015	<0.5	<1	<20
M1-B-E-2	18-JUN-2011 15:09	HK1113869-016	<0.5	<1	<20
M2-S-E-1	18-JUN-2011 14:56	HK1113869-017	<0.5	<1	<20
M2-S-E-2	18-JUN-2011 14:56	HK1113869-018	<0.5	<1	<20
M2-B-E-1	18-JUN-2011 14:56	HK1113869-019	<0.5	<1	<20
M2-B-E-2	18-JUN-2011 14:56	HK1113869-020	<0.5	<1	<20
DM4-S-E-1	18-JUN-2011 15:26	HK1113869-021	<0.5	<1	<20
DM4-S-E-2	18-JUN-2011 15:26	HK1113869-022	<0.5	<1	<20
DM4-B-E-1	18-JUN-2011 15:26	HK1113869-023	<0.5	<1	<20
DM4-B-E-2	18-JUN-2011 15:26	HK1113869-024	<0.5	<1	<20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1840377)									
HK1113869-002	M1-S-F-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
HK1113869-011	DW4-B-F-1		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1840378)									
HK1113869-002	M1-S-F-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
HK1113869-011	DW4-B-F-1		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1840379)									
HK1113869-022	DW4-S-E-2		EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0
			EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1840380)									
HK1113869-022	DW4-S-E-2		EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
Matrix: WATER											
EG: Metals and Major Cations - Filtered (QCLot: 1840377)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	93.0	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	107	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1840378)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	111	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1840379)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	93.6	---	85	115	---	---
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	103	---	85	115	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1840380)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	90.5	---	85	115	---	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Recovery Limits (%)	Value	Control Limit
Matrix: WATER											
EG: Metals and Major Cations - Filtered (QCLot: 1840377)											
HK1113869-001	M1-S-F-1		EG020: Cadmium	7440-43-9	10 µg/L	100	---	75	125	---	---
			EG020: Chromium	7440-47-3	10 µg/L	107	---	75	125	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1840378)											
HK1113869-001	M1-S-F-1		EG020: Aluminium	7429-90-5	10 µg/L	86.7	---	75	125	---	---



Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPDs (%)	
					MS	MSD	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QCLot: 1840379)									
HK1113869-021	DM4-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	97.6	---	75	125	----
		EG020: Chromium	7440-47-3	10 µg/L	113	---	75	125	----
EG: Metals and Major Cations - Filtered (QCLot: 1840380)									
HK1113869-021	DM4-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	115	---	75	125	----

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED	Laboratory : ALS Technichem HK Pty Ltd	Page : 1 of 4
Contact : MR JOHN HO	Contact : Chan Kwok Fai, Godfrey	Work Order : HK1114020
Address : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG	Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	
E-mail : jho@fugro.com.hk	E-mail : Godfrey.Chan@alsenviro.com	
Telephone : +852 2452 7142	Telephone : +852 2610 1044	
Facsimile : +852 2450 6138	Facsimile : +852 2610 2021	
Project : ----	Quote number : ----	
Order number : ----	Date received : 21-JUN-2011	
C-O-C number : H020431-H020432	Date of issue : 30-JUN-2011	
Site : ----	No. of samples : - Received : 24	
		- Analysed : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1114020 supersedes any previous reports with this reference. The completion date of analysis is 23-JUN-2011. 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 HK1114020 : Sample(s) were received in a chilled condition.

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

Water sample(s) were filtered prior to dissolved metal analysis.

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Signature	Position	Authorised results for:-
Wong Wing, Kenneth	Assistant Supervisor	Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound LOR Unit	
			EG020: Cadmium 0.5 µg/L EG: Metals and Major Cations - Filtered	EG020: Chromium 1 µg/L EG: Metals and Major Cations - Filtered
M1-S-F-1	21-JUN-2011 11:03	HK1114020-001	<0.5	<1
M1-S-F-2	21-JUN-2011 11:03	HK1114020-002	<0.5	<1
M1-B-F-1	21-JUN-2011 11:03	HK1114020-003	<0.5	<1
M1-B-F-2	21-JUN-2011 11:03	HK1114020-004	<0.5	<1
M2-S-F-1	21-JUN-2011 10:50	HK1114020-005	<0.5	<1
M2-S-F-2	21-JUN-2011 10:50	HK1114020-006	<0.5	<1
M2-B-F-1	21-JUN-2011 10:50	HK1114020-007	<0.5	<1
M2-B-F-2	21-JUN-2011 10:50	HK1114020-008	<0.5	<1
DM4-S-F-1	21-JUN-2011 11:21	HK1114020-009	<0.5	<1
DM4-S-F-2	21-JUN-2011 11:21	HK1114020-010	<0.5	<1
DM4-B-F-1	21-JUN-2011 11:21	HK1114020-011	<0.5	<1
DM4-B-F-2	21-JUN-2011 11:21	HK1114020-012	<0.5	<1
M1-S-E-1	21-JUN-2011 17:00	HK1114020-013	<0.5	<1
M1-S-E-2	21-JUN-2011 17:00	HK1114020-014	<0.5	<1
M1-B-E-1	21-JUN-2011 17:00	HK1114020-015	<0.5	<1
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M2-S-E-2	21-JUN-2011 16:41	HK1114020-018	<0.5	<1
M2-B-E-1	21-JUN-2011 16:41	HK1114020-019	<0.5	<1
M2-B-E-2	21-JUN-2011 16:41	HK1114020-020	<0.5	<1
DM4-S-E-1	21-JUN-2011 17:20	HK1114020-021	<0.5	<1
DM4-S-E-2	21-JUN-2011 17:20	HK1114020-022	<0.5	<1
DM4-B-E-1	21-JUN-2011 17:20	HK1114020-023	<0.5	<1
DM4-B-E-2	21-JUN-2011 17:20	HK1114020-024	<0.5	<1



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1842433)									
HK1114020-002	M1-S-F-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
HK1114020-011	DW4-B-F-1	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1842435)									
HK1114020-002	M1-S-F-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
HK1114020-011	DW4-B-F-1	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1842436)									
HK1114020-022	DW4-S-E-2	EG020: Cadmium	7440-43-9	0.5	µg/L	<0.5	<0.5	0.0	0.0
		EG020: Chromium	7440-47-3	1	µg/L	<1	<1	0.0	0.0
EG: Metals and Major Cations - Filtered (QC Lot: 1842439)									
HK1114020-022	DW4-S-E-2	EG020: Aluminium	7429-90-5	20	µg/L	<20	<20	0.0	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	RPDs (%)	Control Limit
Matrix: WATER											
EG: Metals and Major Cations - Filtered (QCLot: 1842433)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	102	115	85	115	----	----
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	106	115	85	115	----	----
EG: Metals and Major Cations - Filtered (QCLot: 1842435)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	112	115	85	115	----	----
EG: Metals and Major Cations - Filtered (QCLot: 1842436)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.5	10 µg/L	93.4	115	85	115	----	----
EG020: Chromium	7440-47-3	1	µg/L	<1	10 µg/L	103	115	85	115	----	----
EG: Metals and Major Cations - Filtered (QCLot: 1842439)											
EG020: Aluminium	7429-90-5	10	µg/L	<20	10 µg/L	101	115	85	115	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Value	RPDs (%)	Control Limit
Matrix: WATER										
EG: Metals and Major Cations - Filtered (QCLot: 1842433)										
HK1114020-001	M1-S-F-1	EG020: Cadmium	7440-43-9	10 µg/L	99.0	----	75	125	----	----
		EG020: Chromium	7440-47-3	10 µg/L	112	----	75	125	----	----
EG: Metals and Major Cations - Filtered (QCLot: 1842435)										
HK1114020-001	M1-S-F-1	EG020: Aluminium	7429-90-5	10 µg/L	112	----	75	125	----	----



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)			Recovery Limits (%)			RPDs (%)	
					MS	MSD	MSD	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QCLot: 1842436)												
HK1114020-021	DM4-S-E-1	EG020: Cadmium	7440-43-9	10 µg/L	96.4	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	10 µg/L	107	---	---	75	125	---	---	---
EG: Metals and Major Cations - Filtered (QCLot: 1842439)												
HK1114020-021	DM4-S-E-1	EG020: Aluminium	7429-90-5	10 µg/L	104	---	---	75	125	---	---	---

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, black, sans-serif font. The text is centered between two thick, horizontal black bars, one above and one below the text.

Appendix 4

Graphical Presentation of Monitoring Data

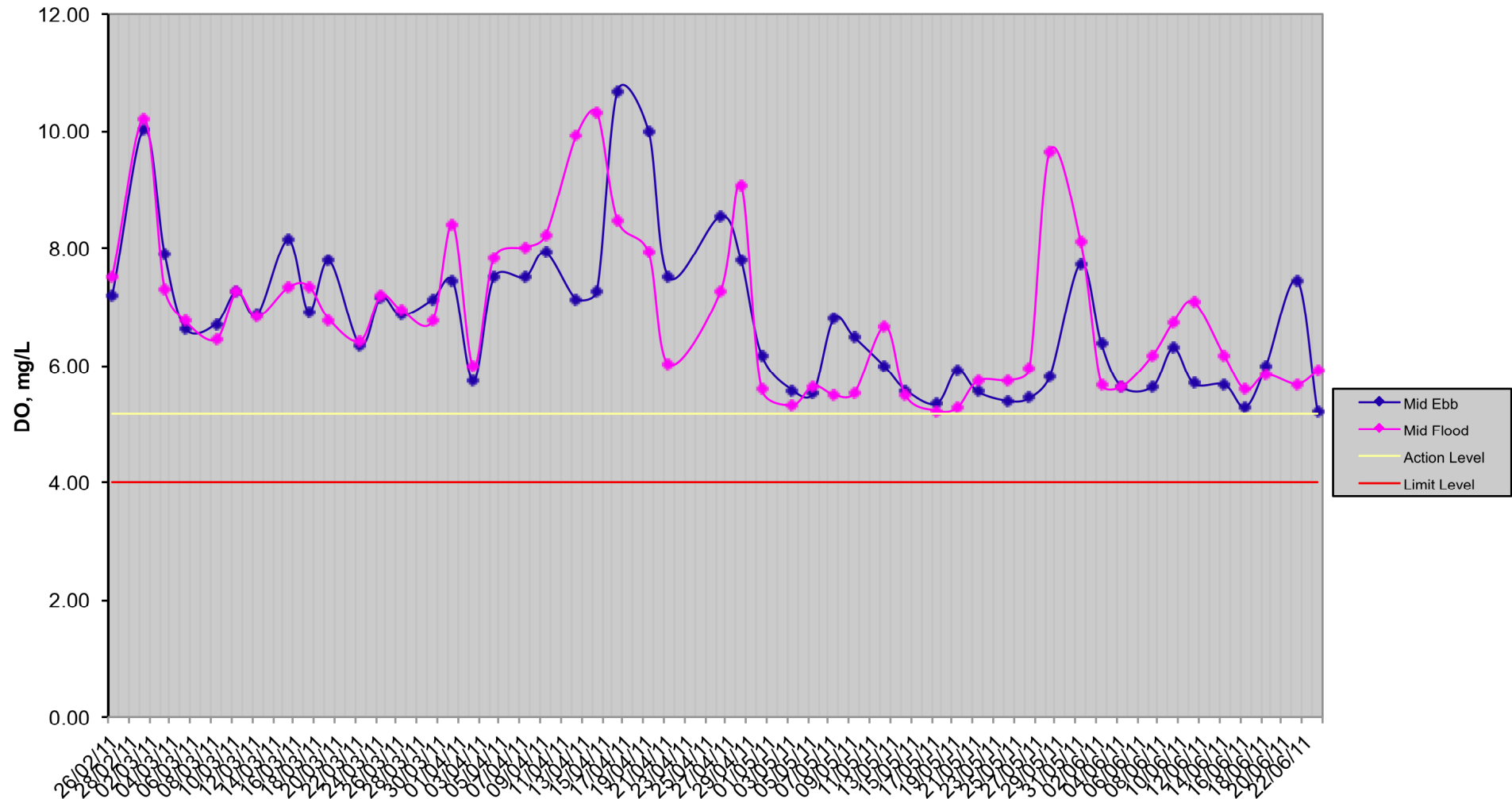
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W1 - Dissolved Oxygen Content



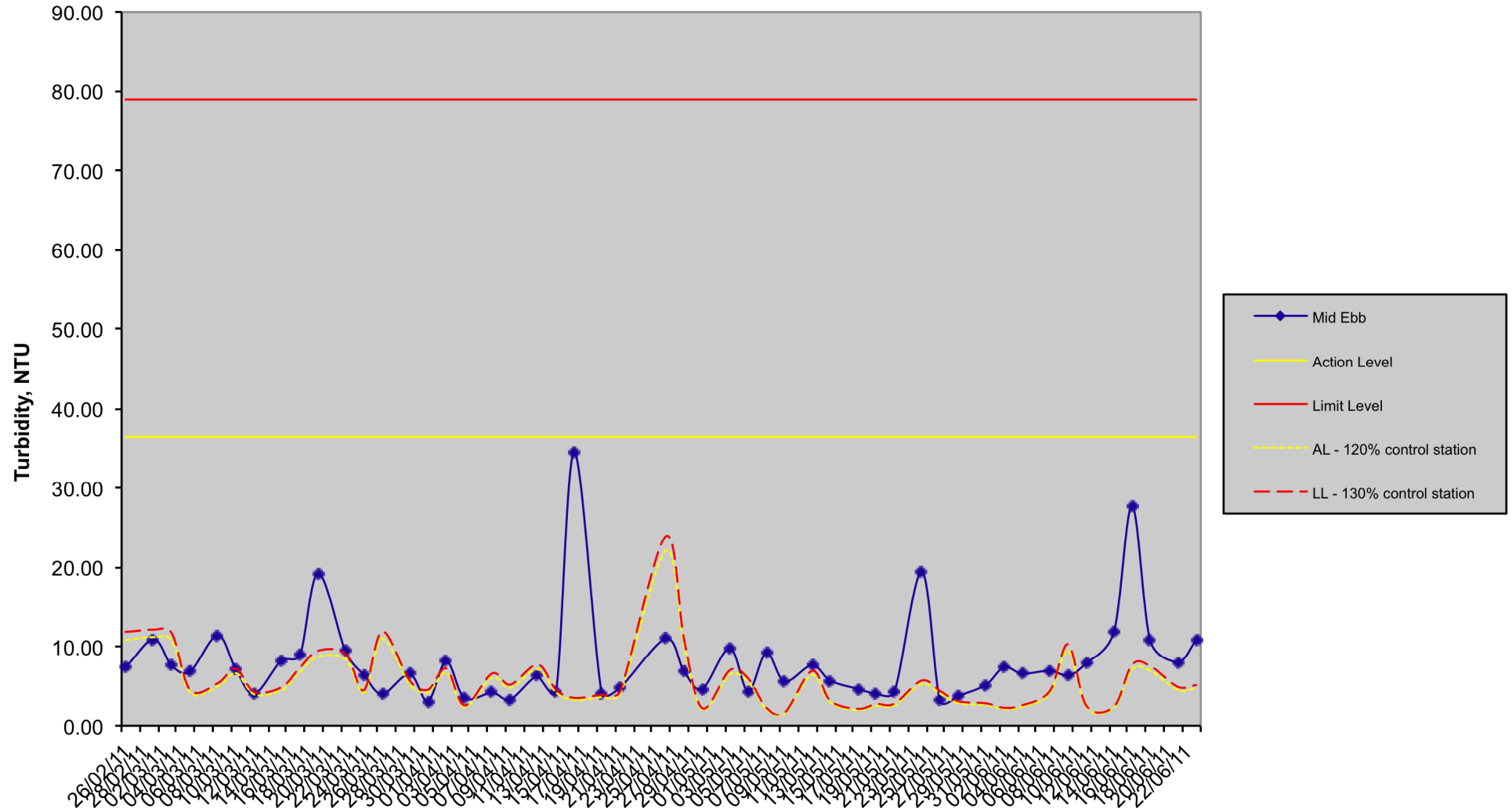
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W1 - Turbidity (Mid-Ebb)



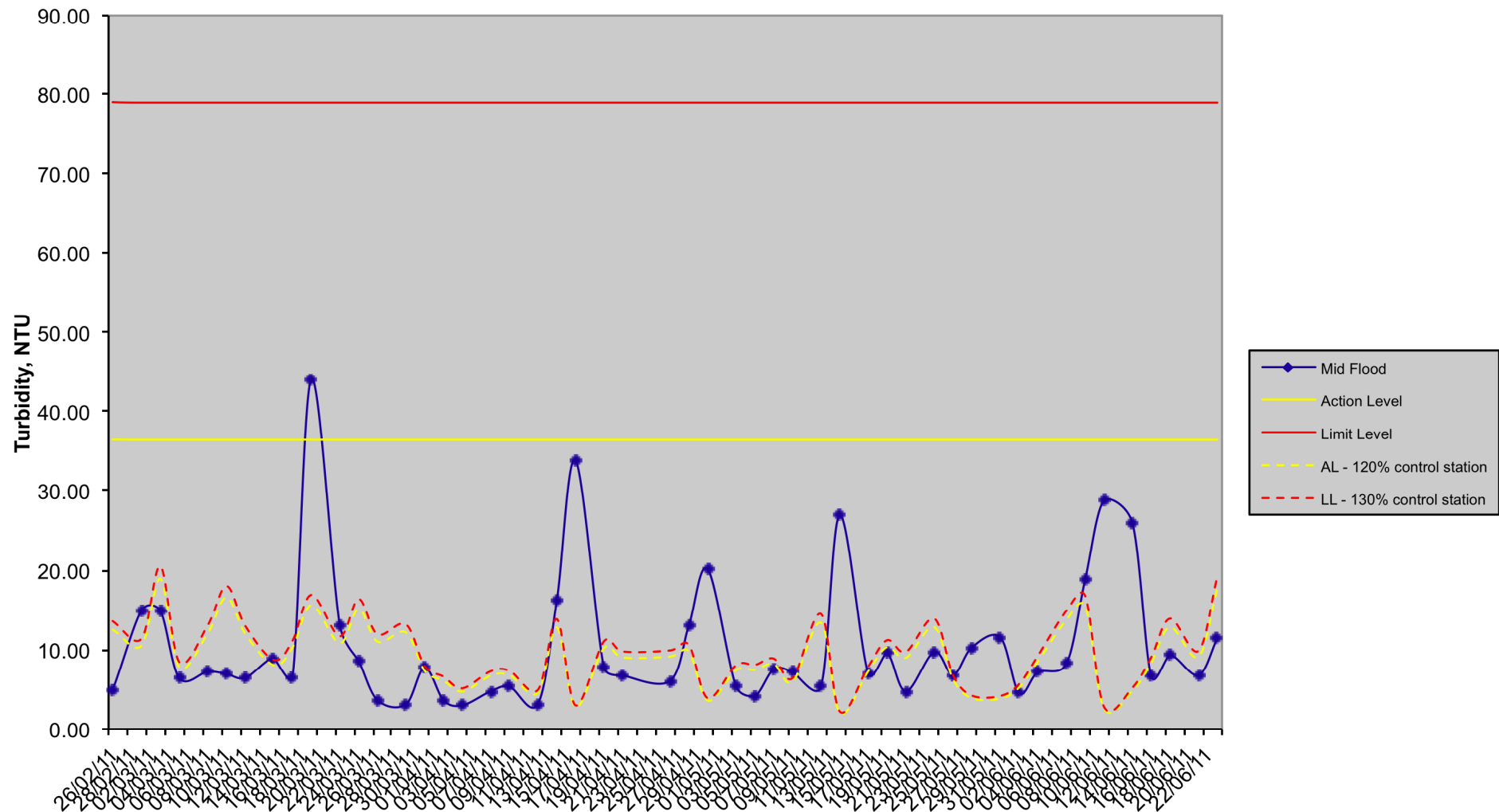
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W1 - Turbidity (Mid-Flood)



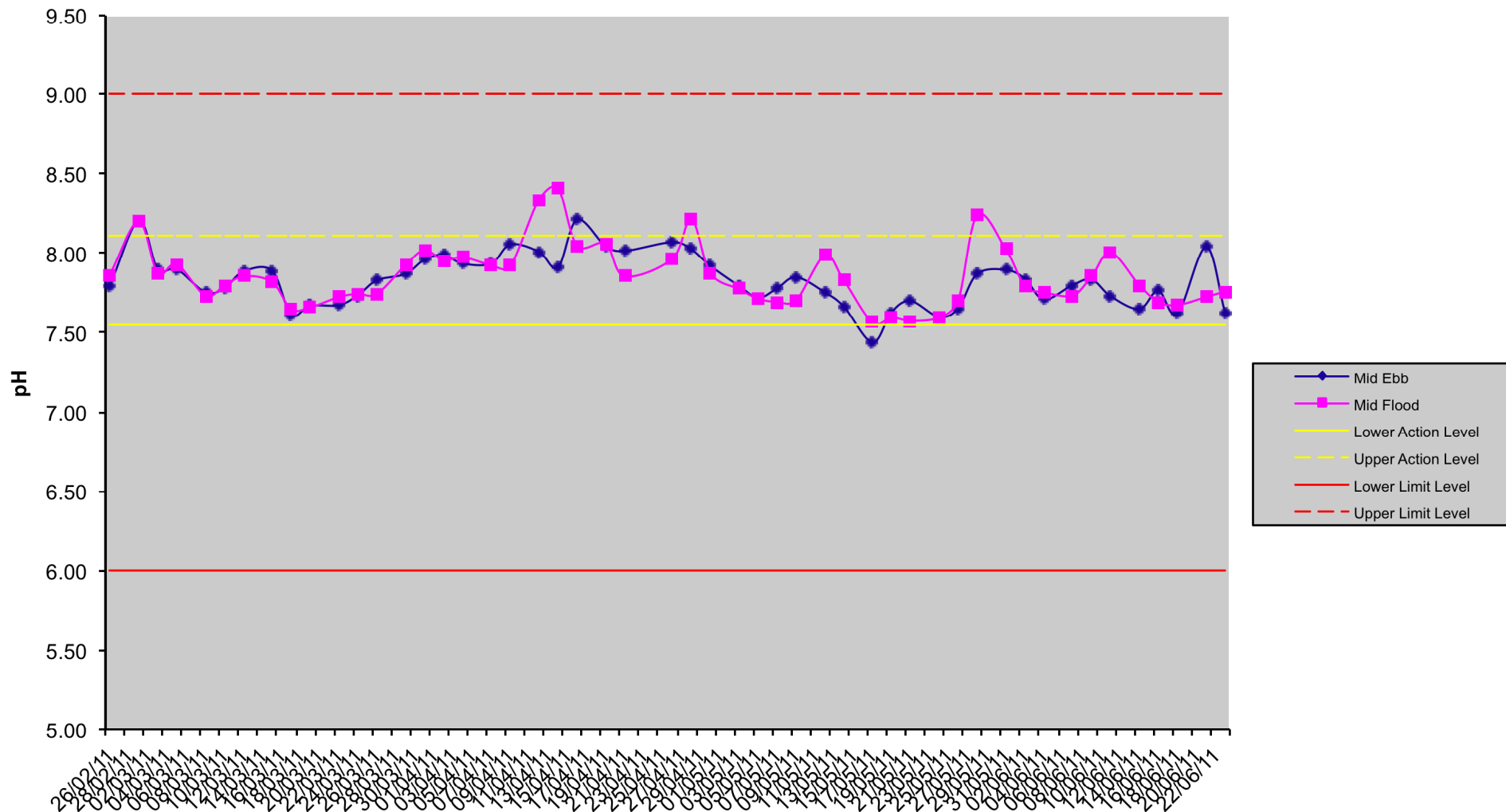
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W1 - pH



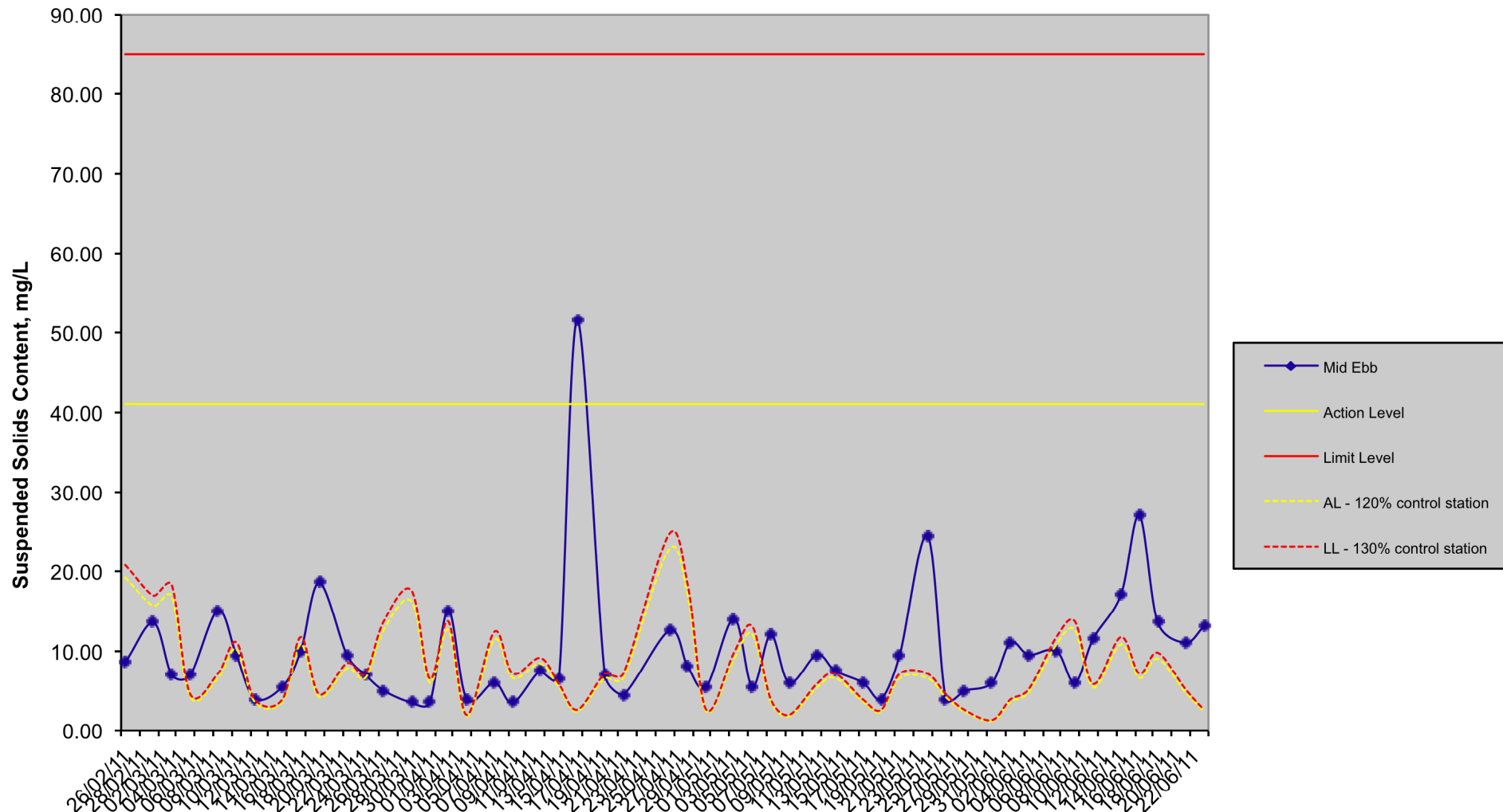
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W1 - Suspended Solid Content (Mid-Ebb)



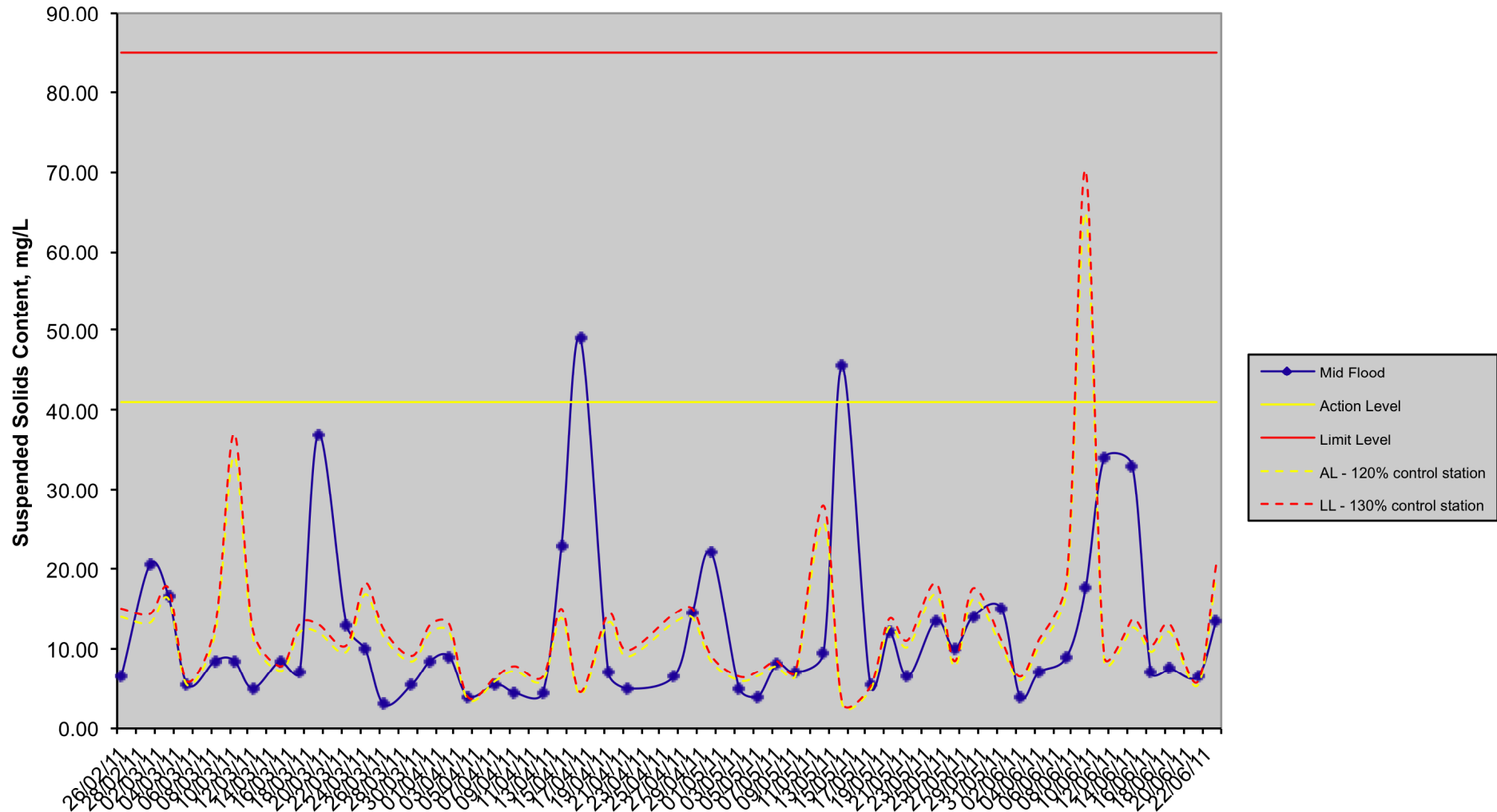
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W1 - Suspended Solids Content (Mid-Flood)



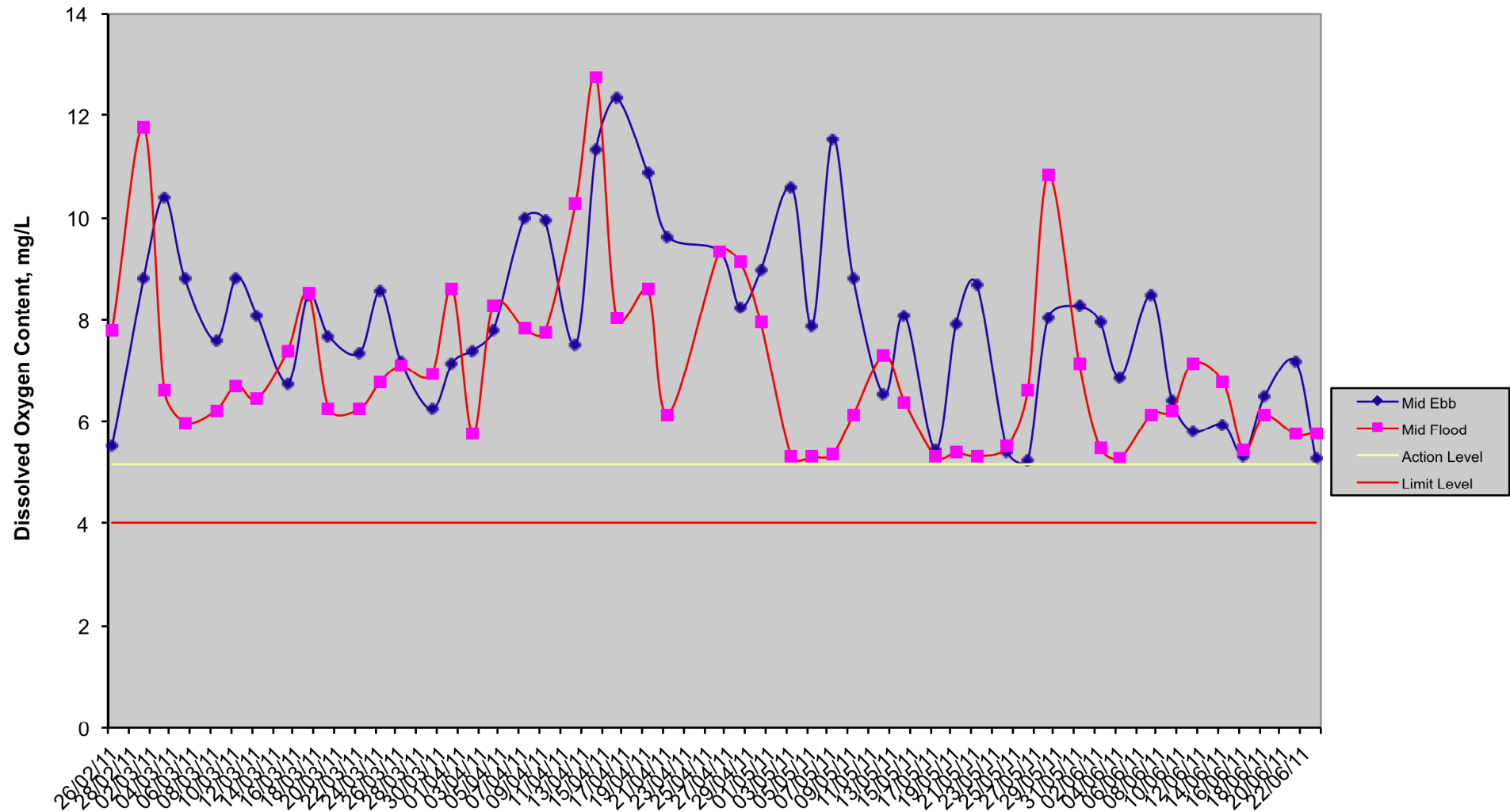
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W2 - Dissolved Oxygen Content



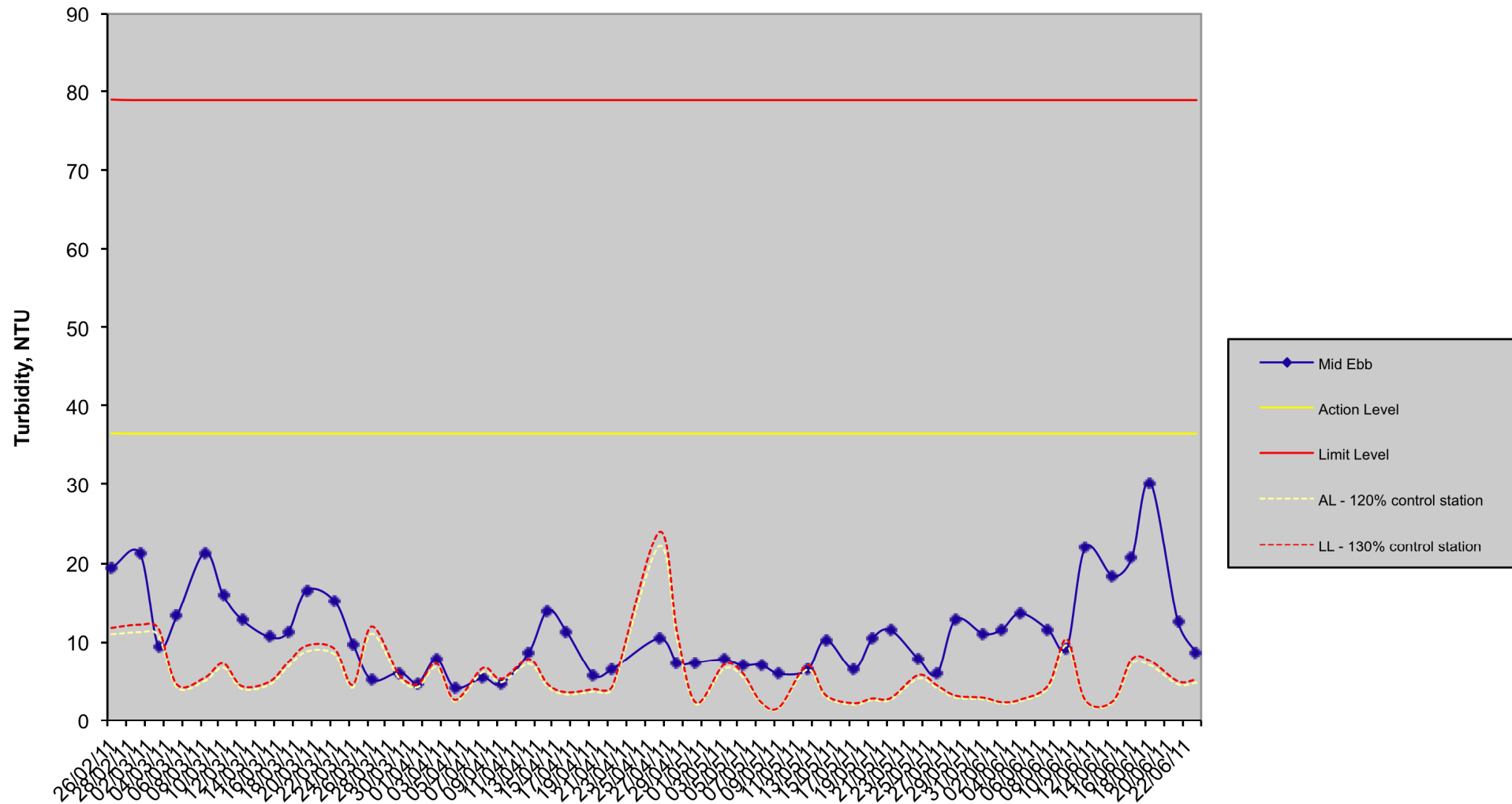
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W2 - Turbidity (Mid-Ebb)

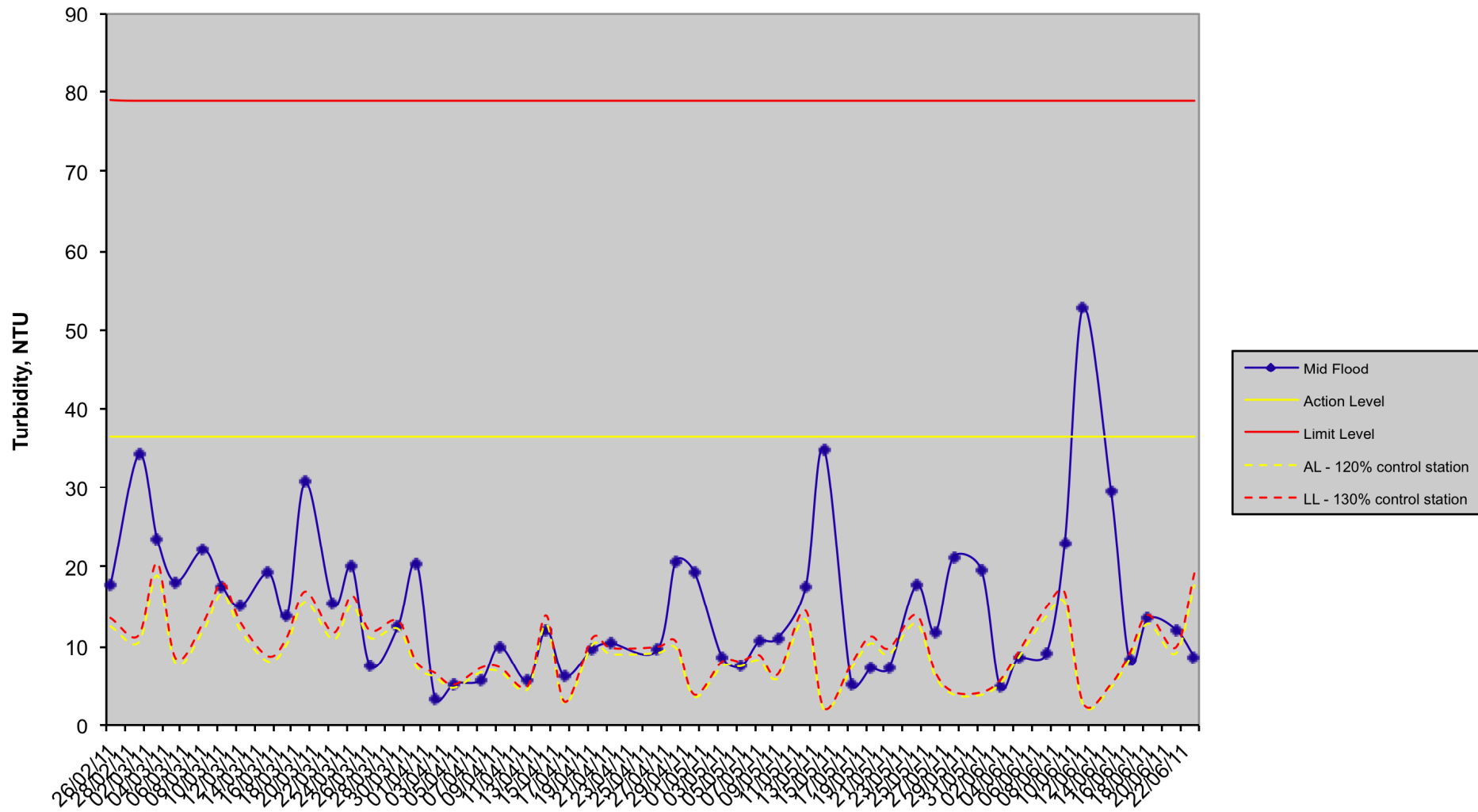


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W2 - Turbidity (Mid-Flood)



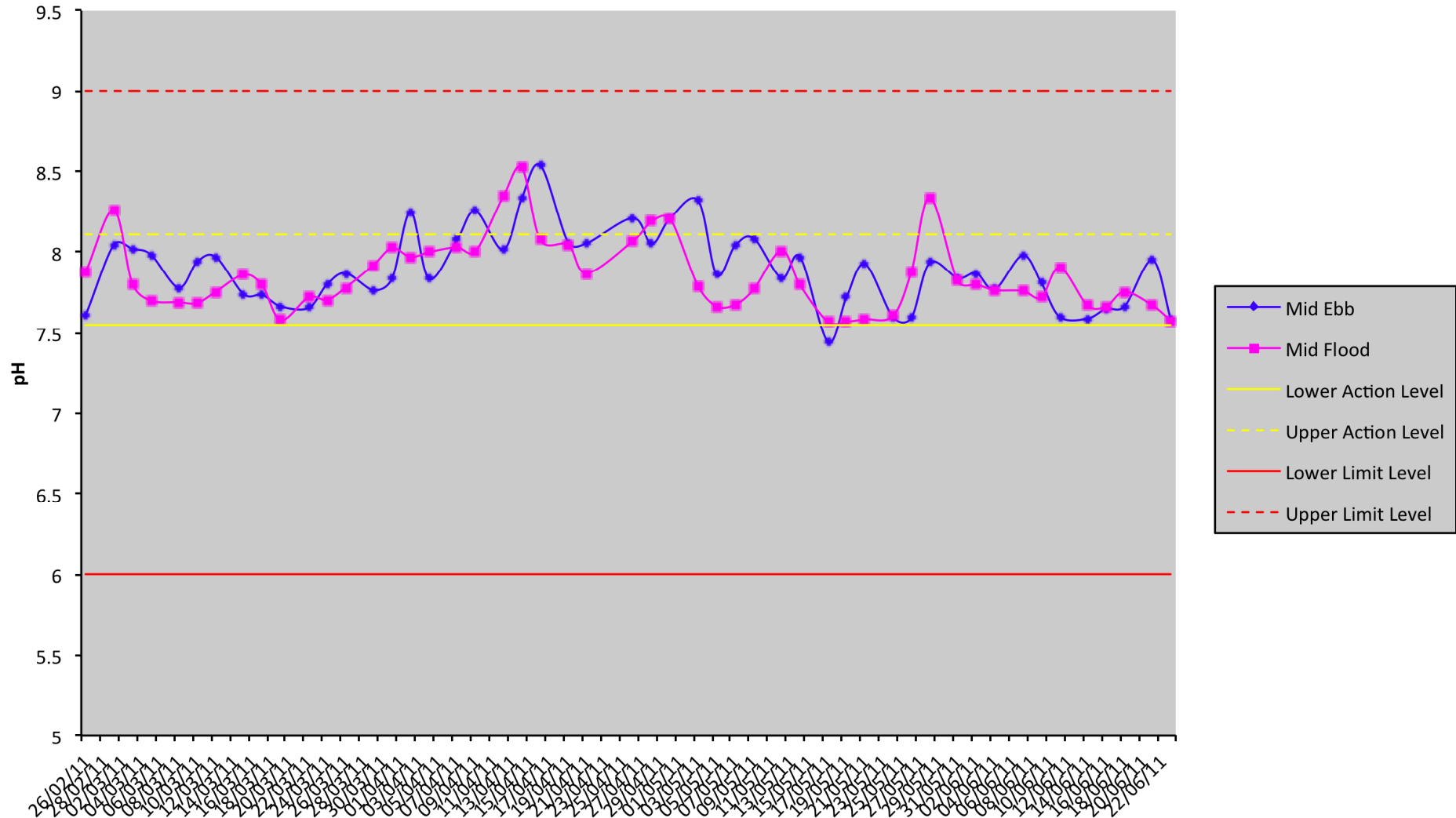
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MaterialLab

W2 - pH



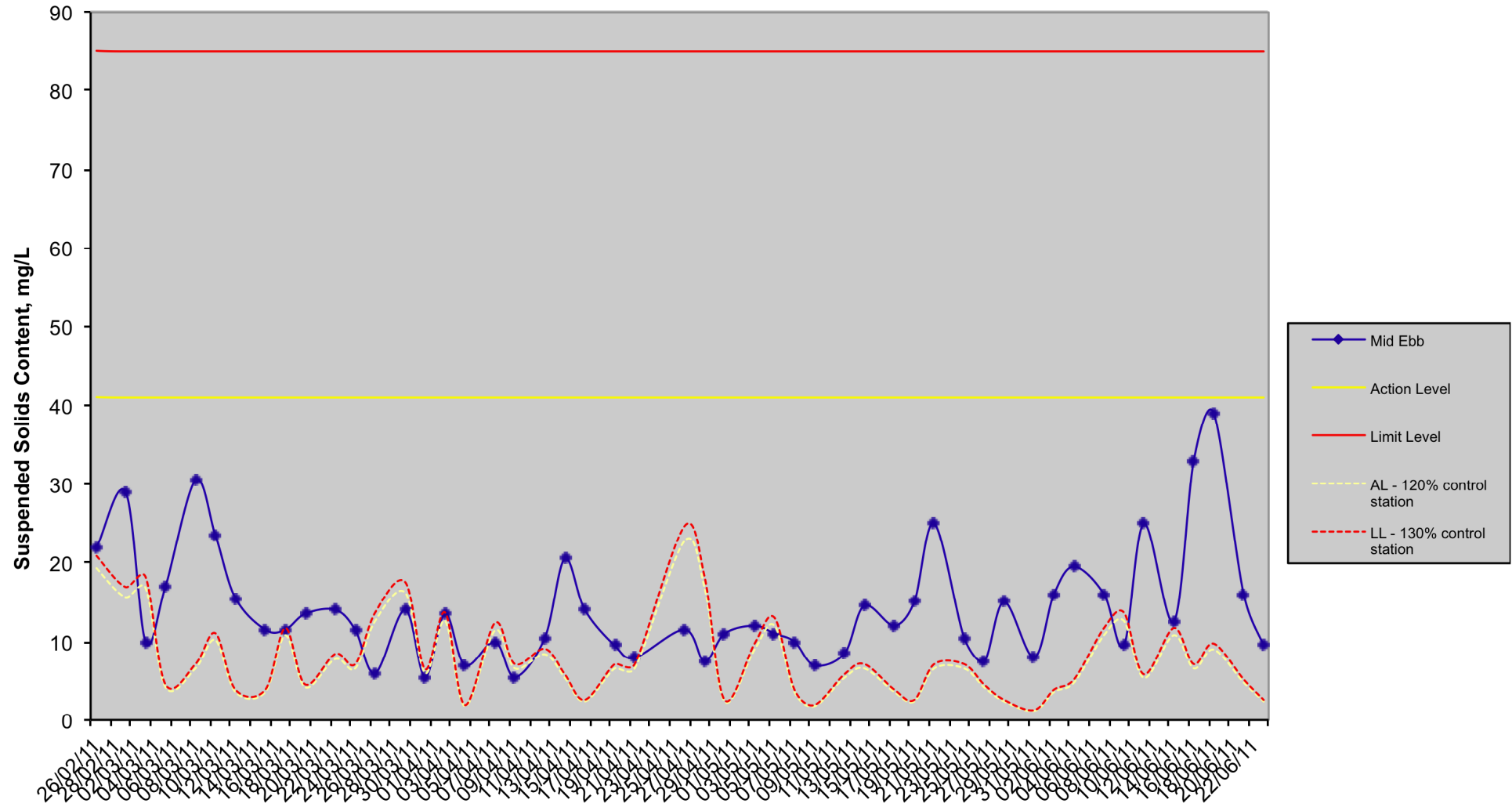
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W2 - Suspended Solids Content (Mid-Ebb)



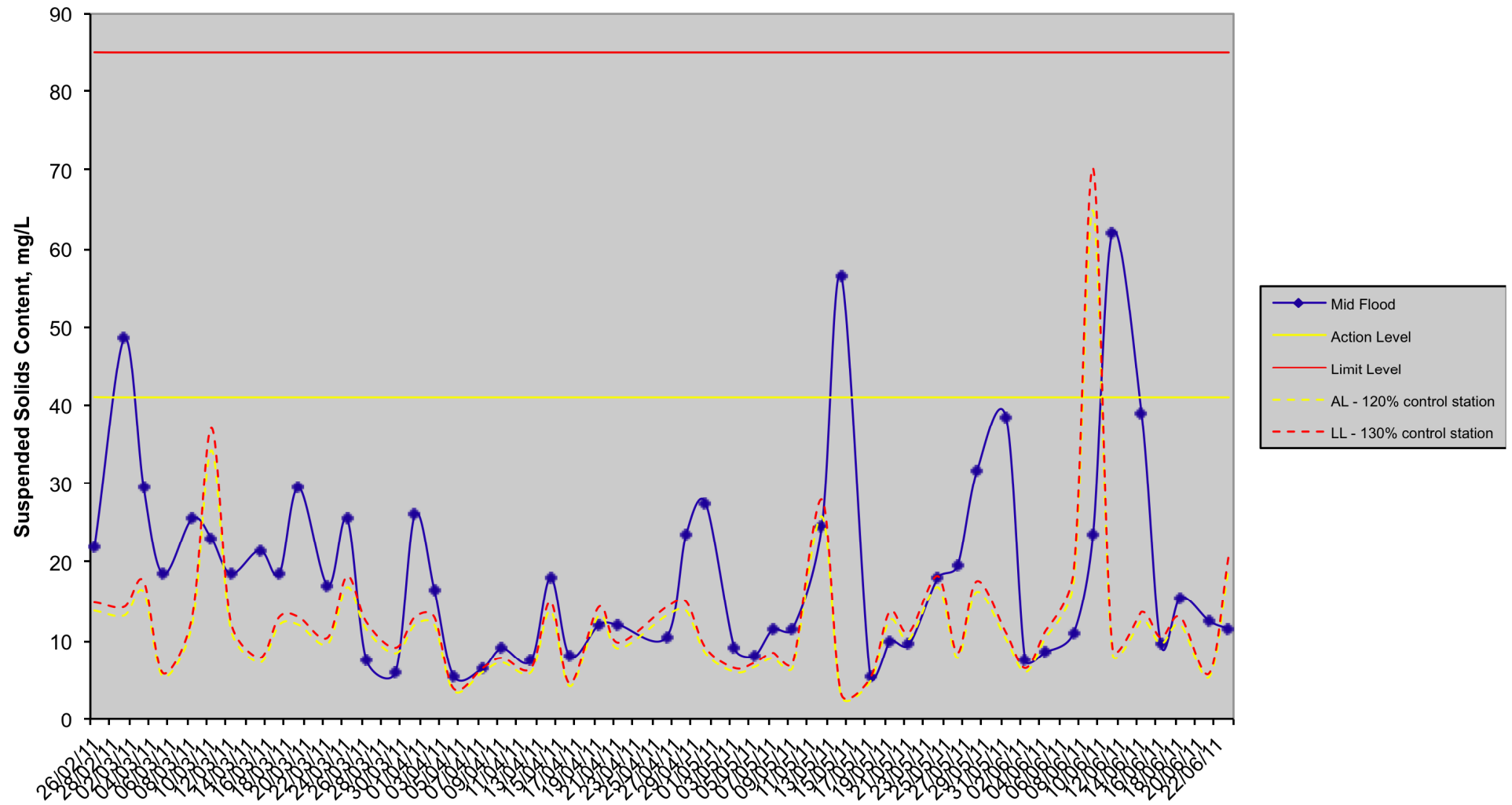
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W2 - Suspended Solids Content (Mid-Flood)



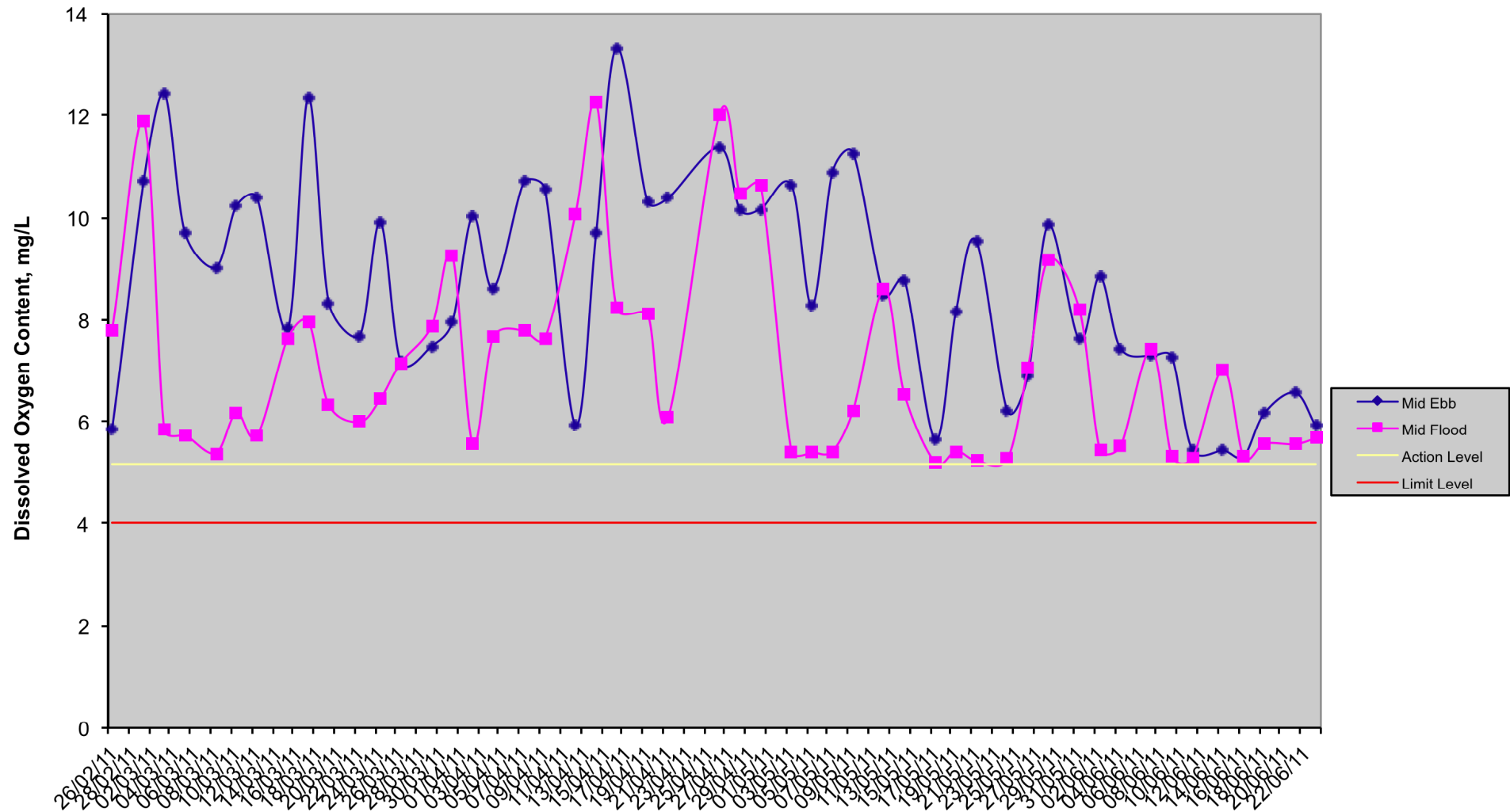
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W3 - Dissolved Oxygen Content



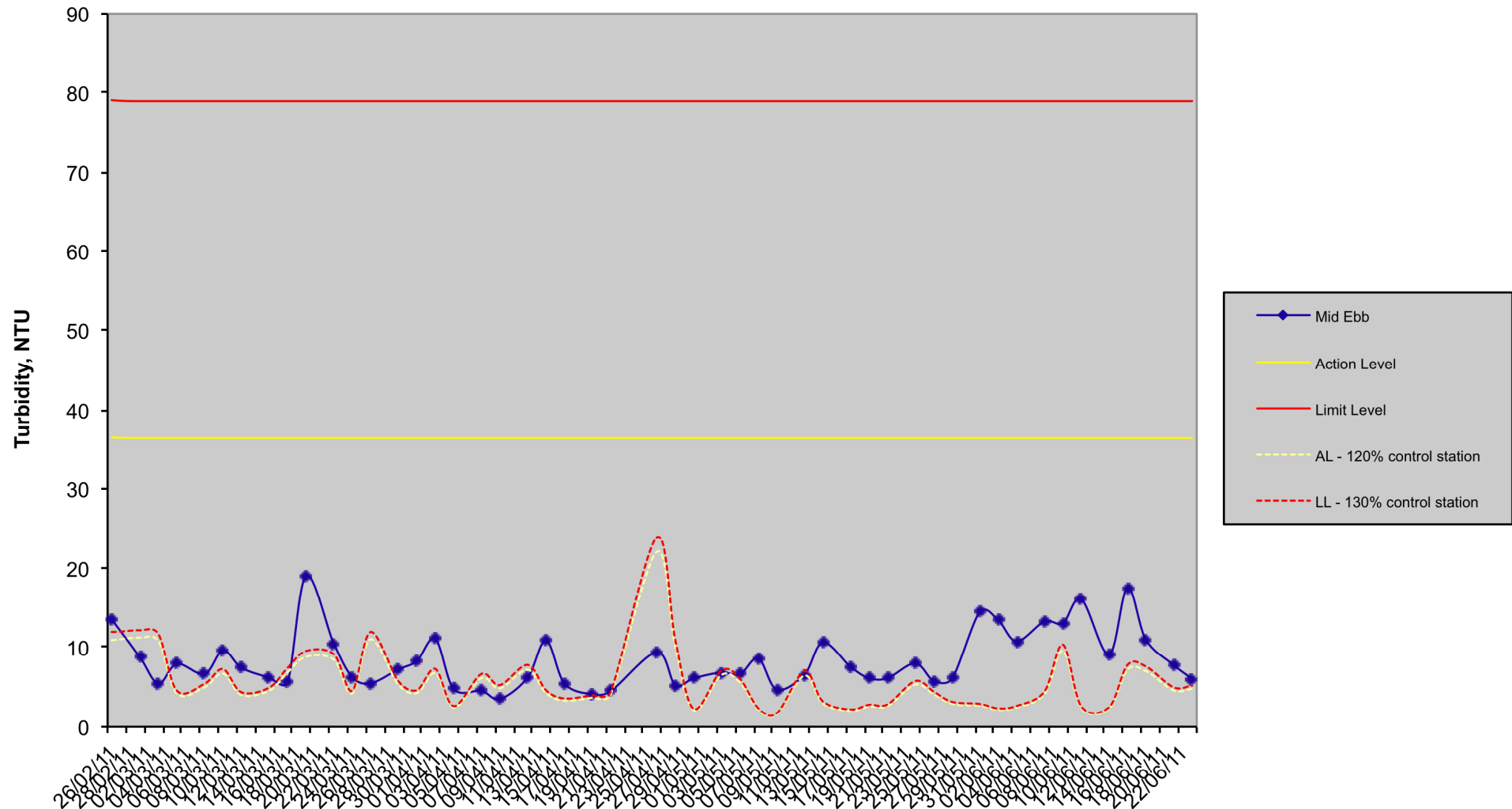
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W3 - Turbidity (Mid-Ebb)



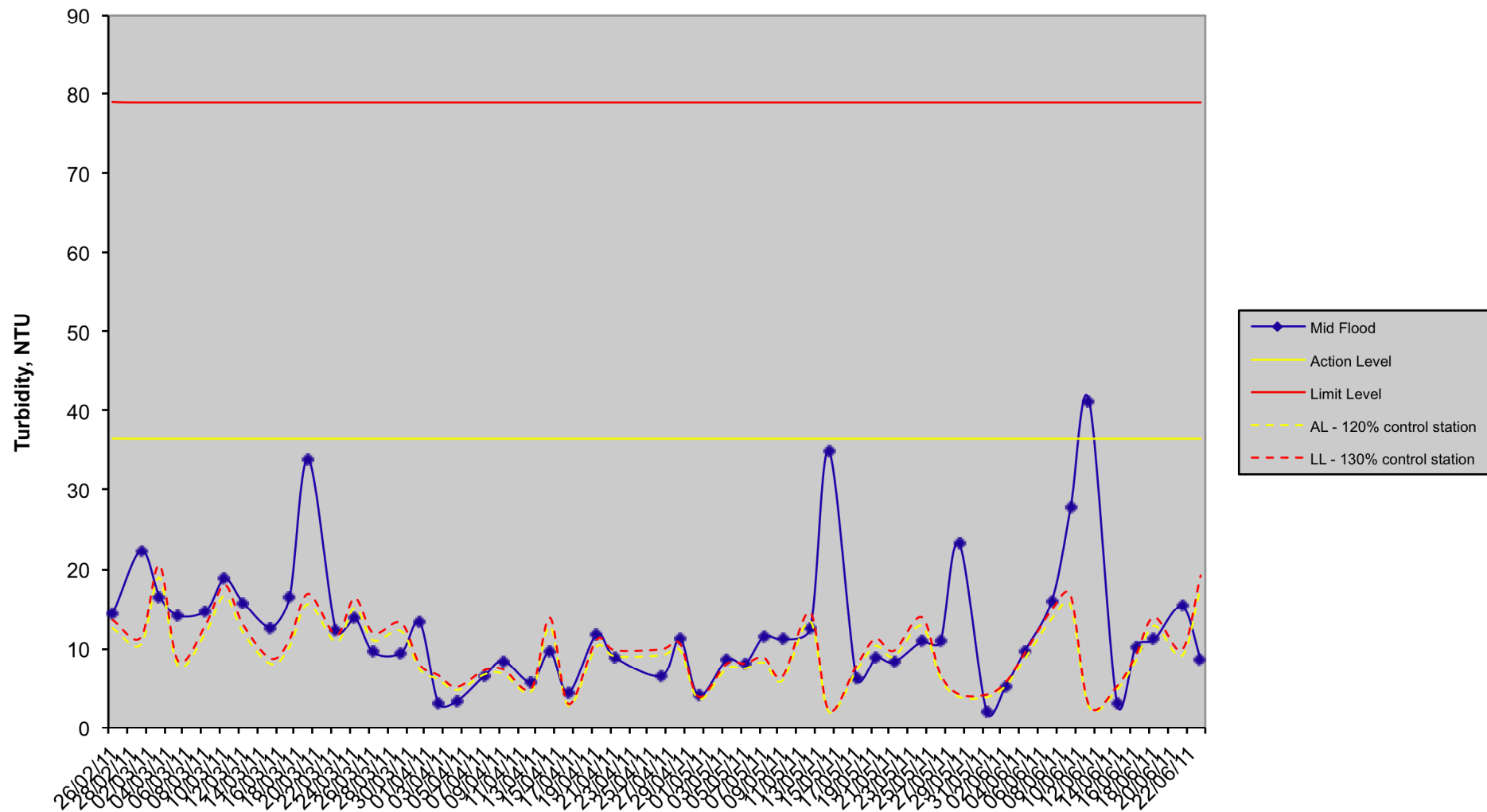
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W3 - Turbidity (Mid-Flood)



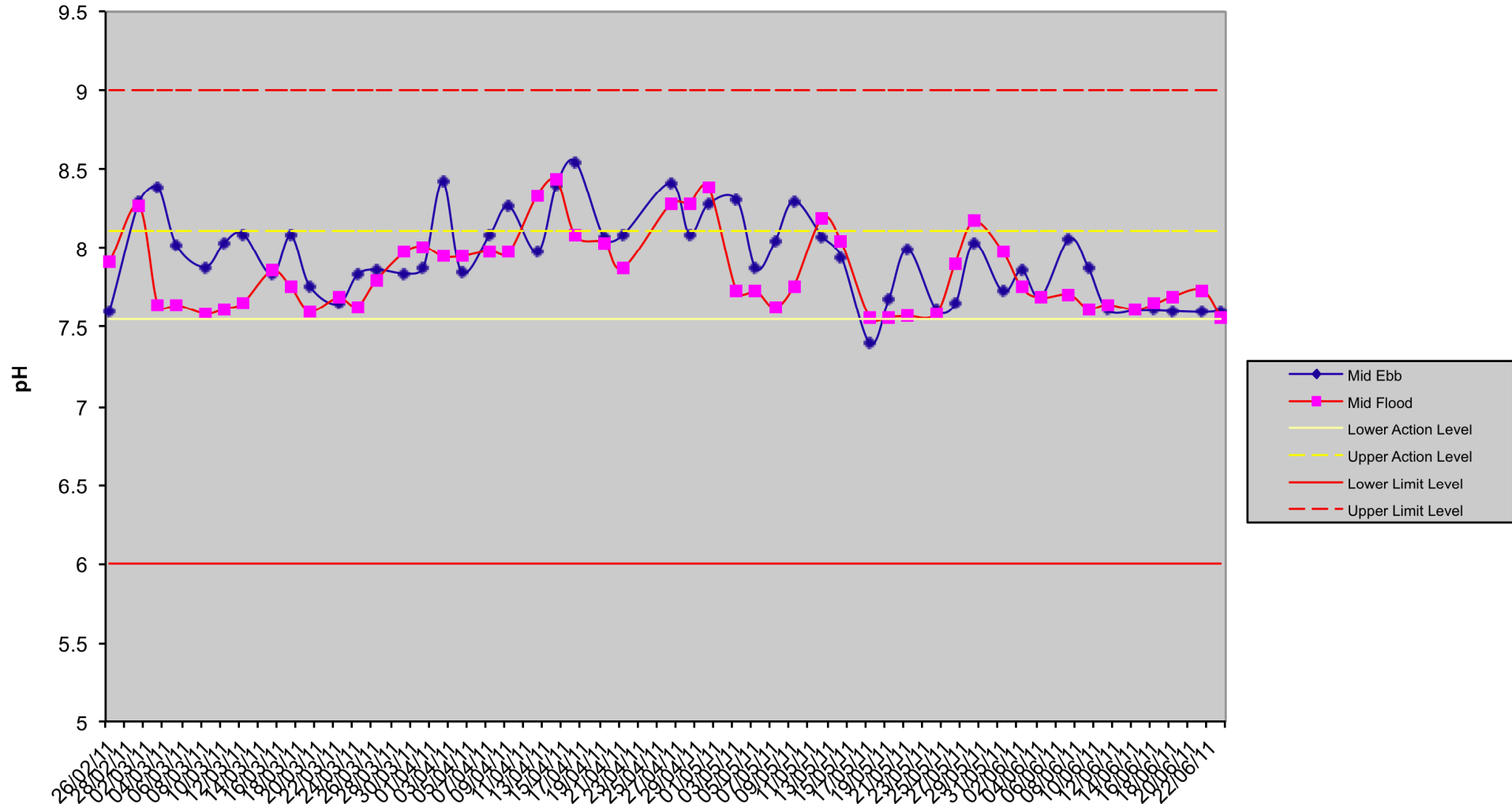
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W3 - pH



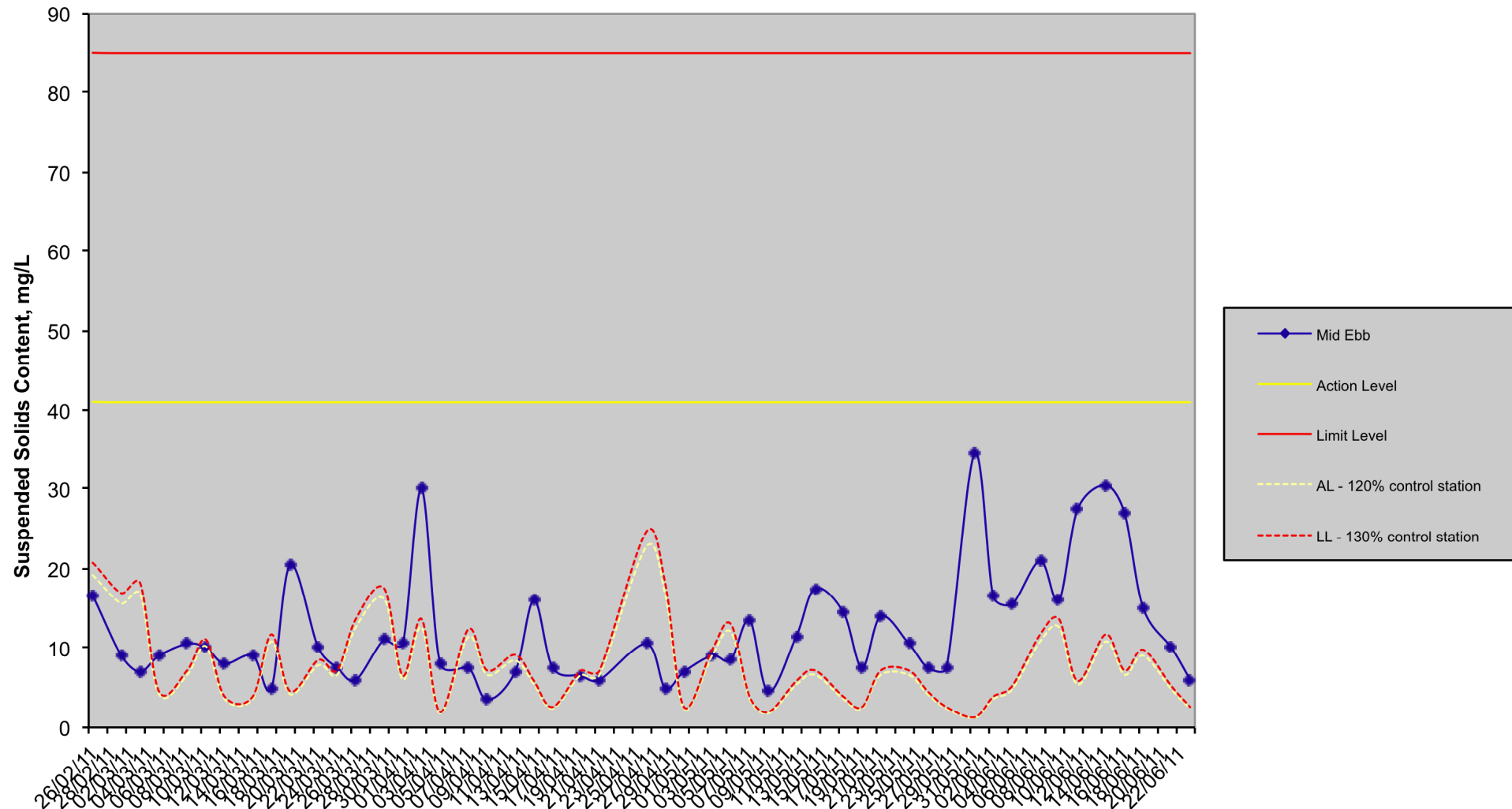
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W3 - Suspended Solids Content (Mid-Ebb)



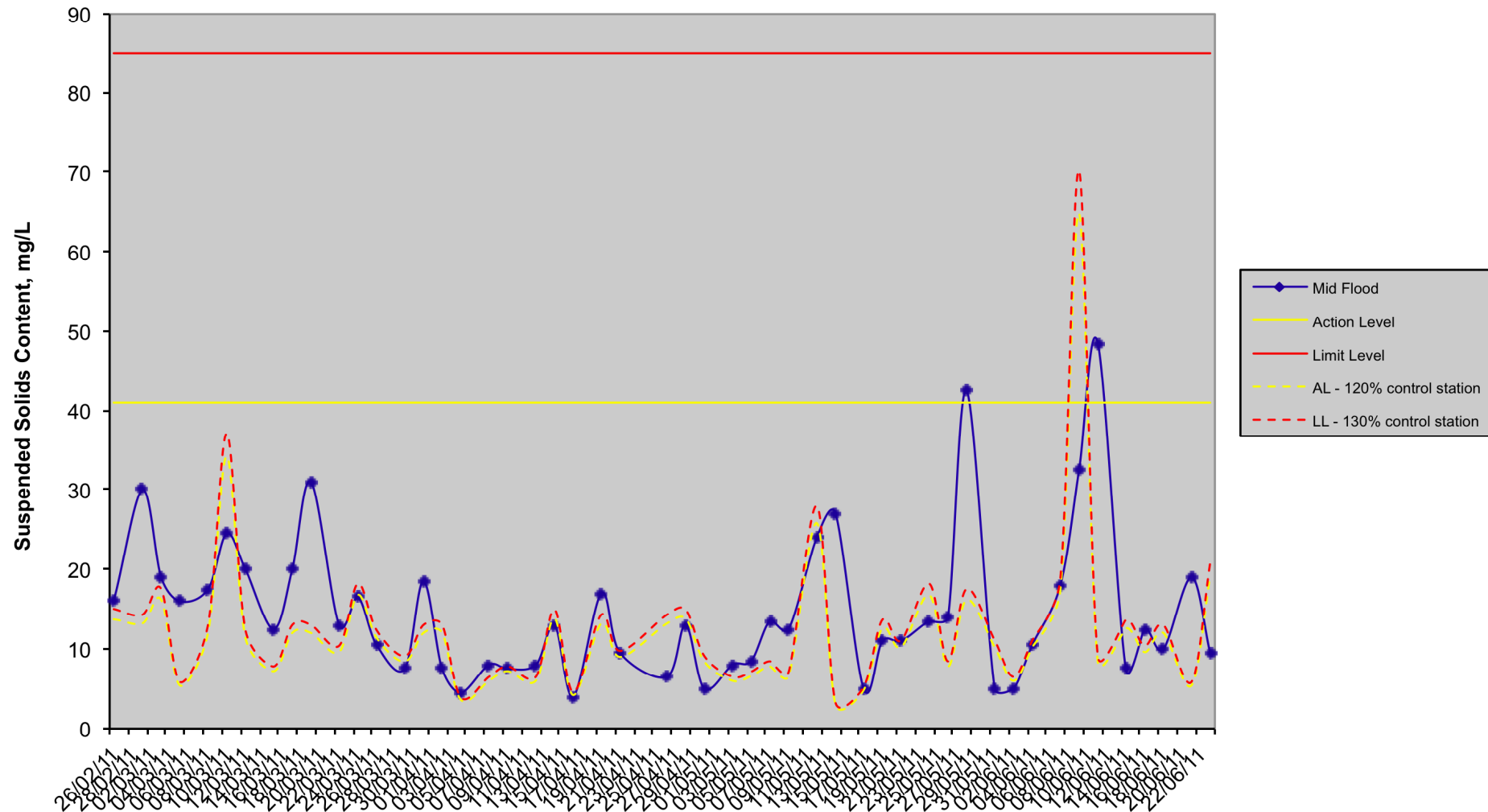
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W3 - Suspended Solids Content (Mid-Flood)



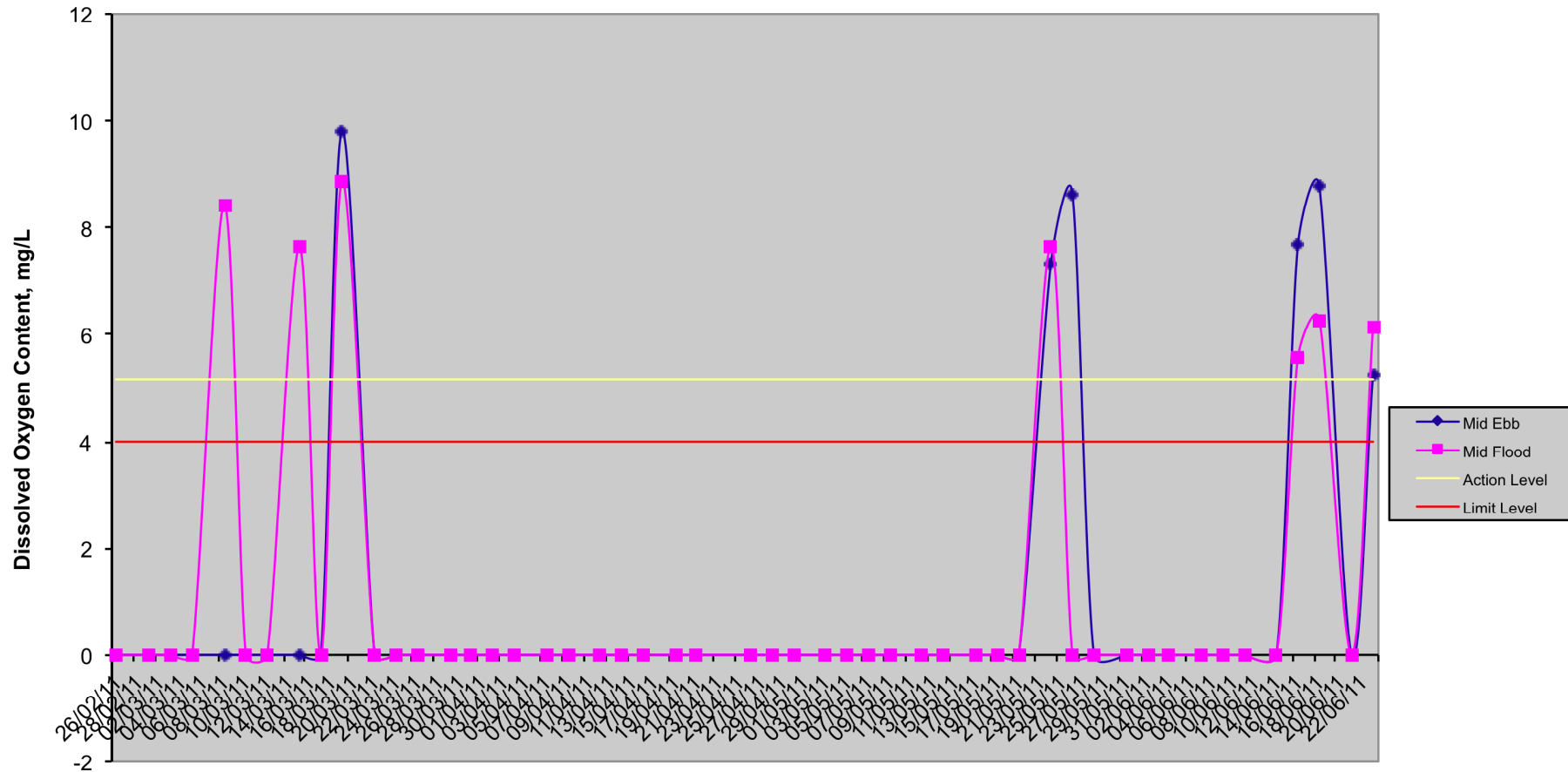
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C1 - Dissolved Oxygen Content



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

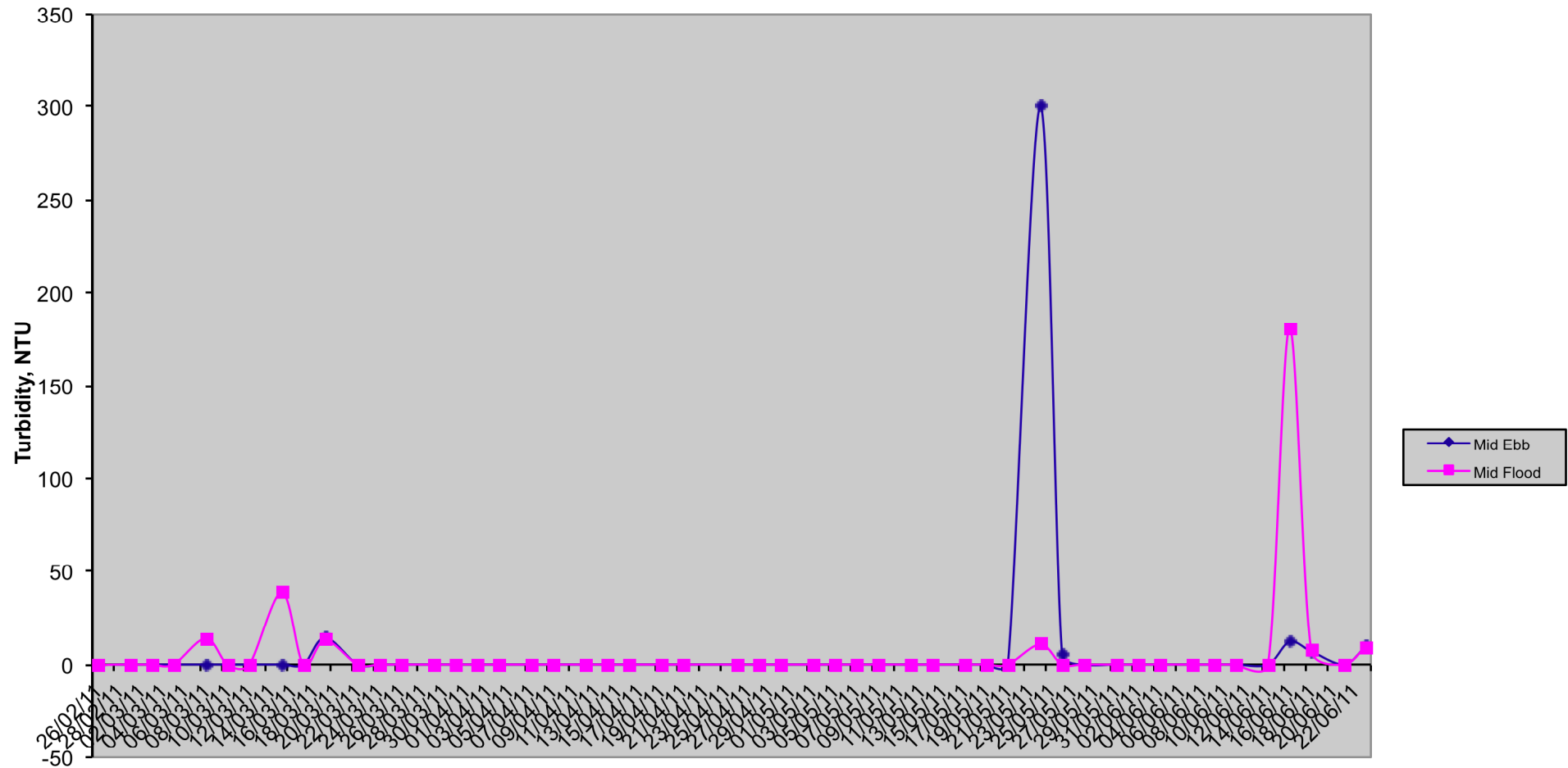
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C1 - Turbidity



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

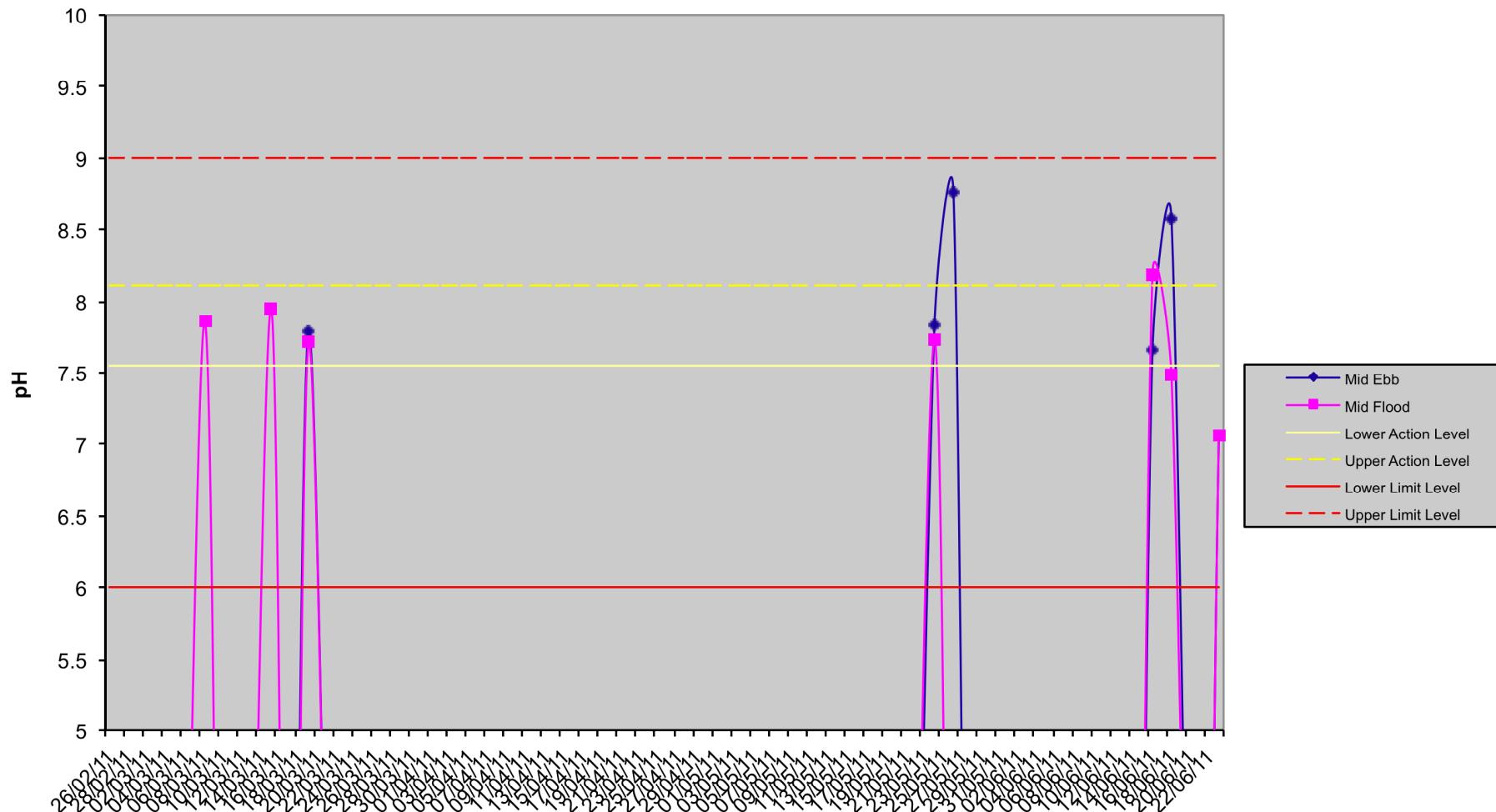
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C1 - pH



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

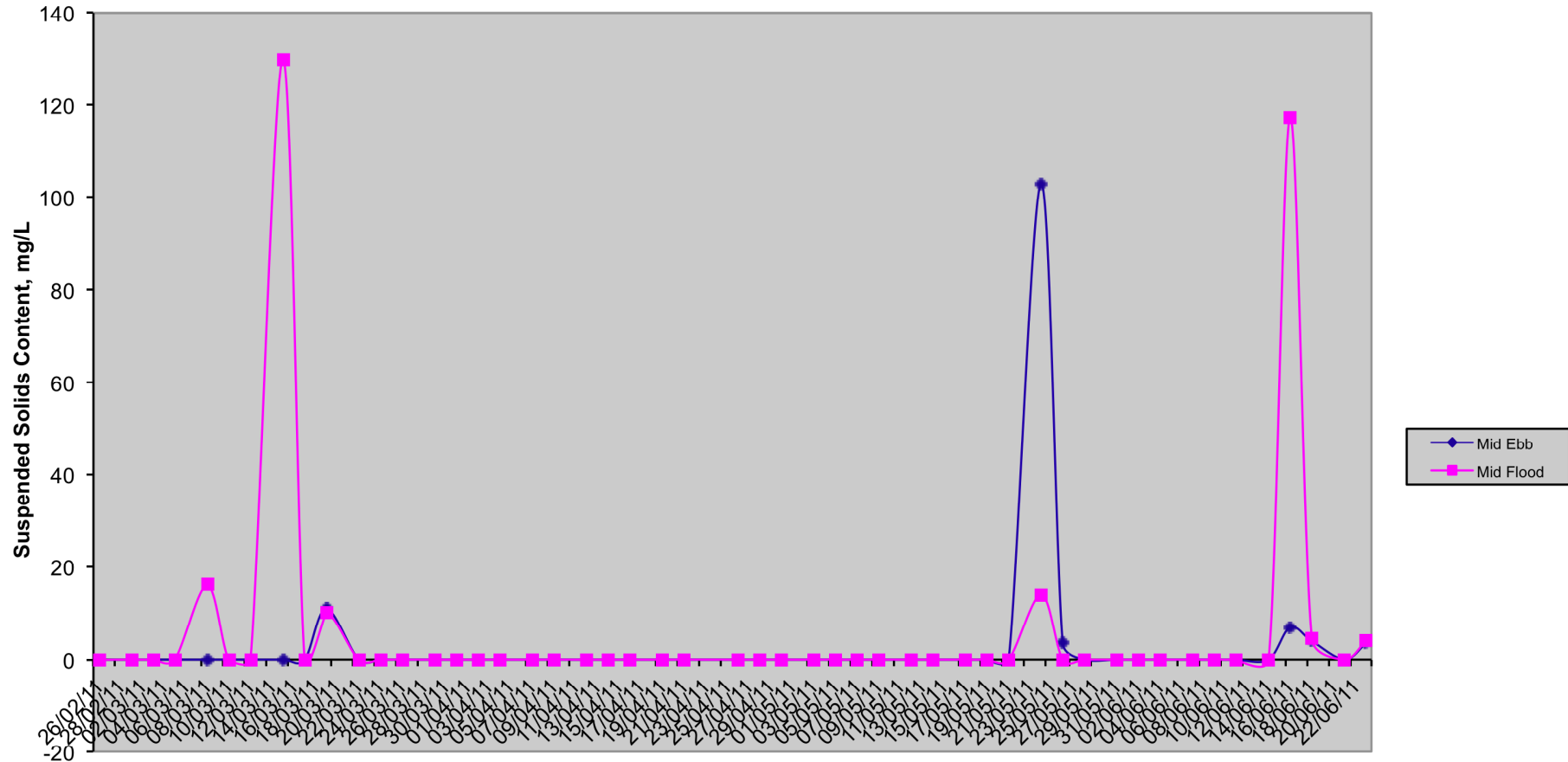
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C1 - Suspended Solids Content



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

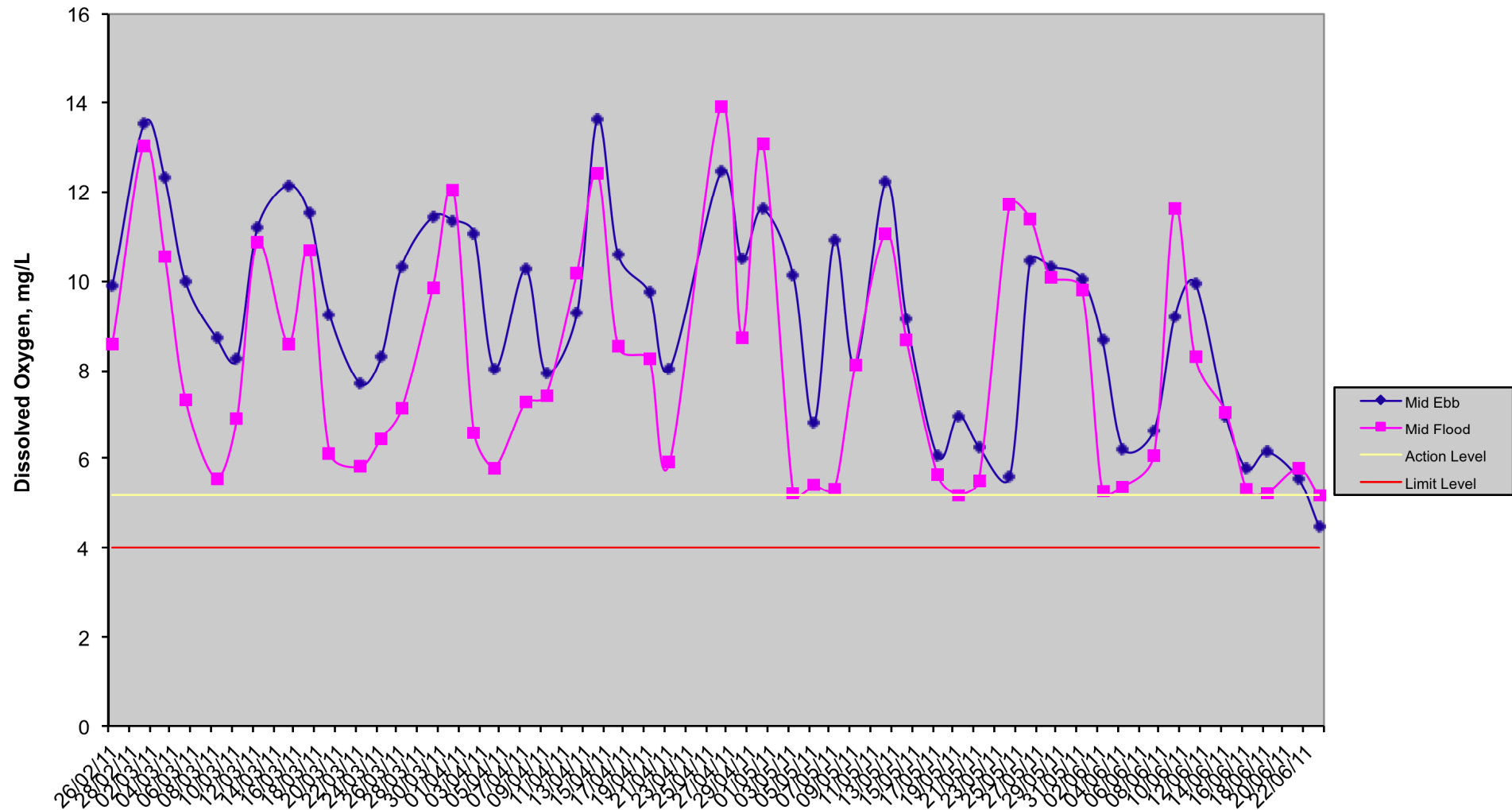
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C2 - Dissolved Oxygen Content



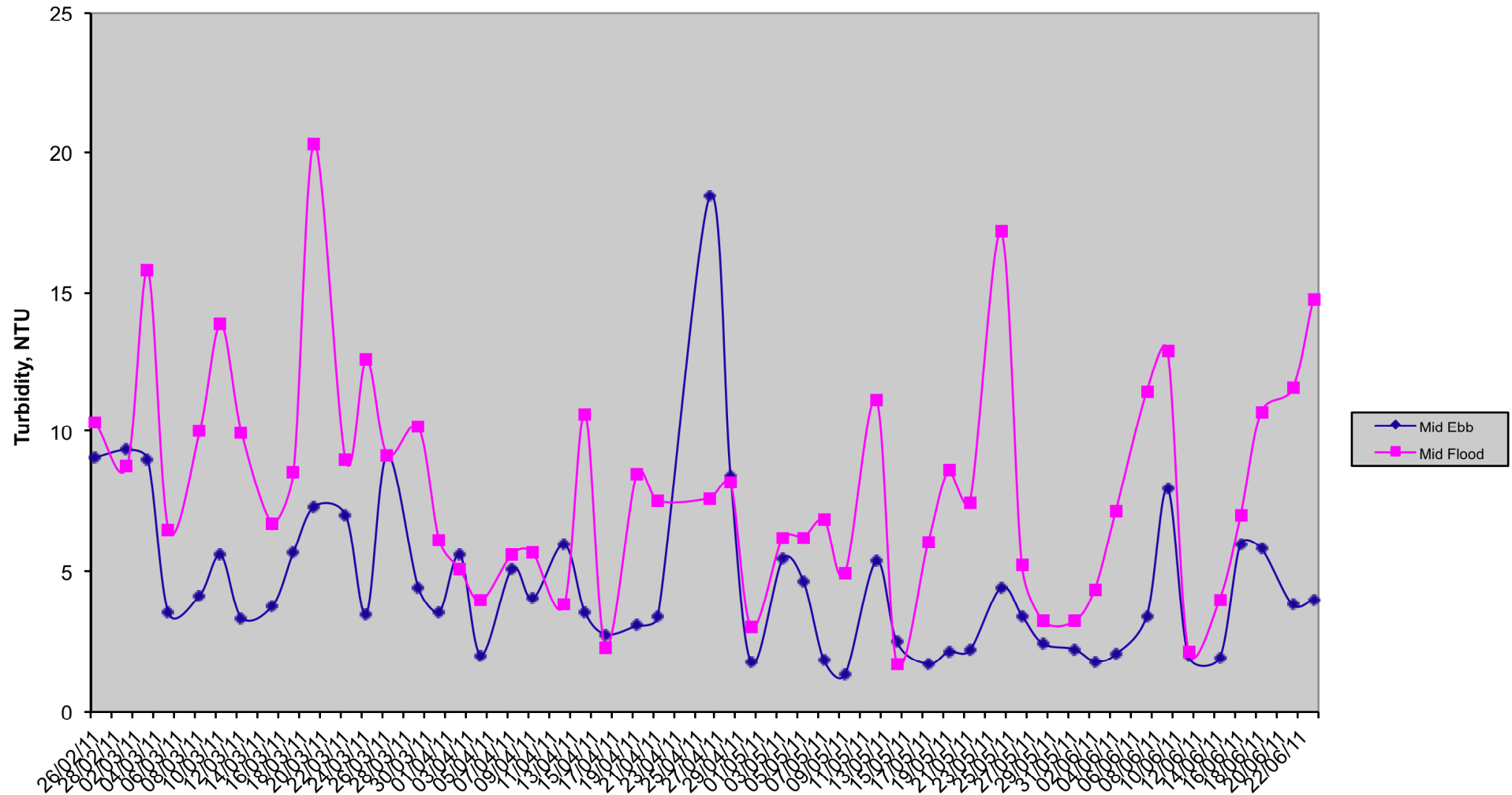
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C2 - Turbidity



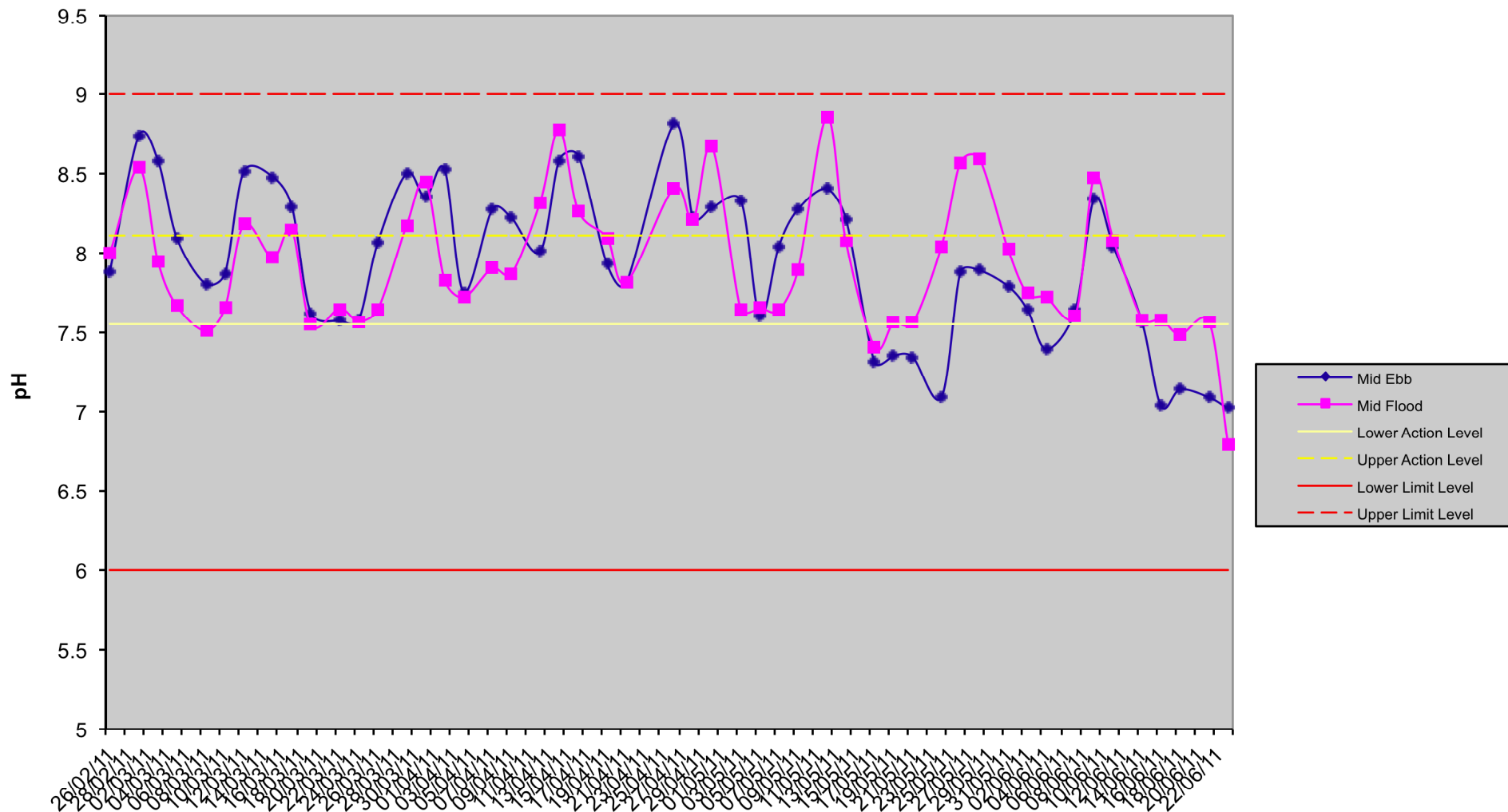
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C2 - pH



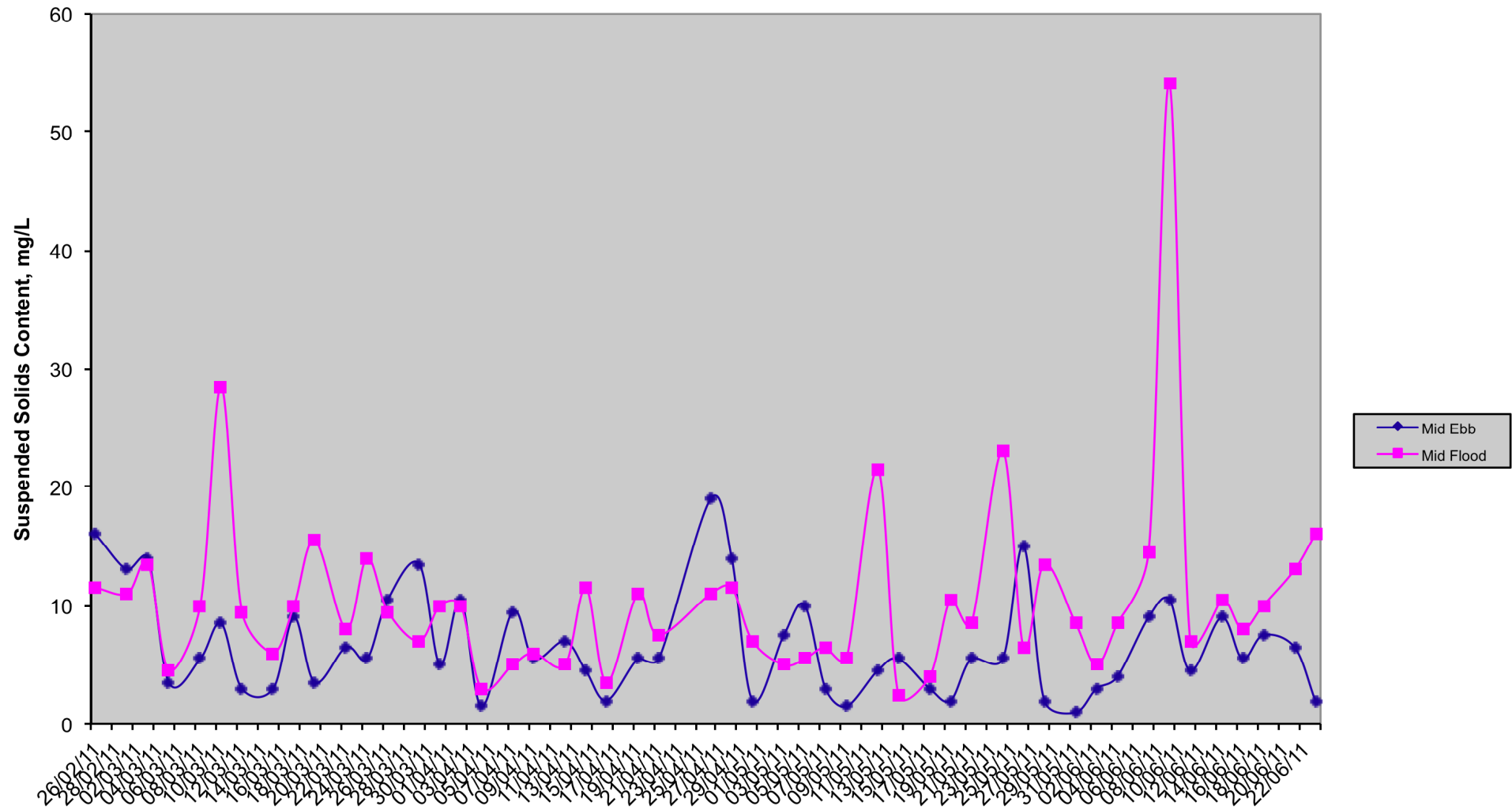
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C2 - Suspended Solids Content



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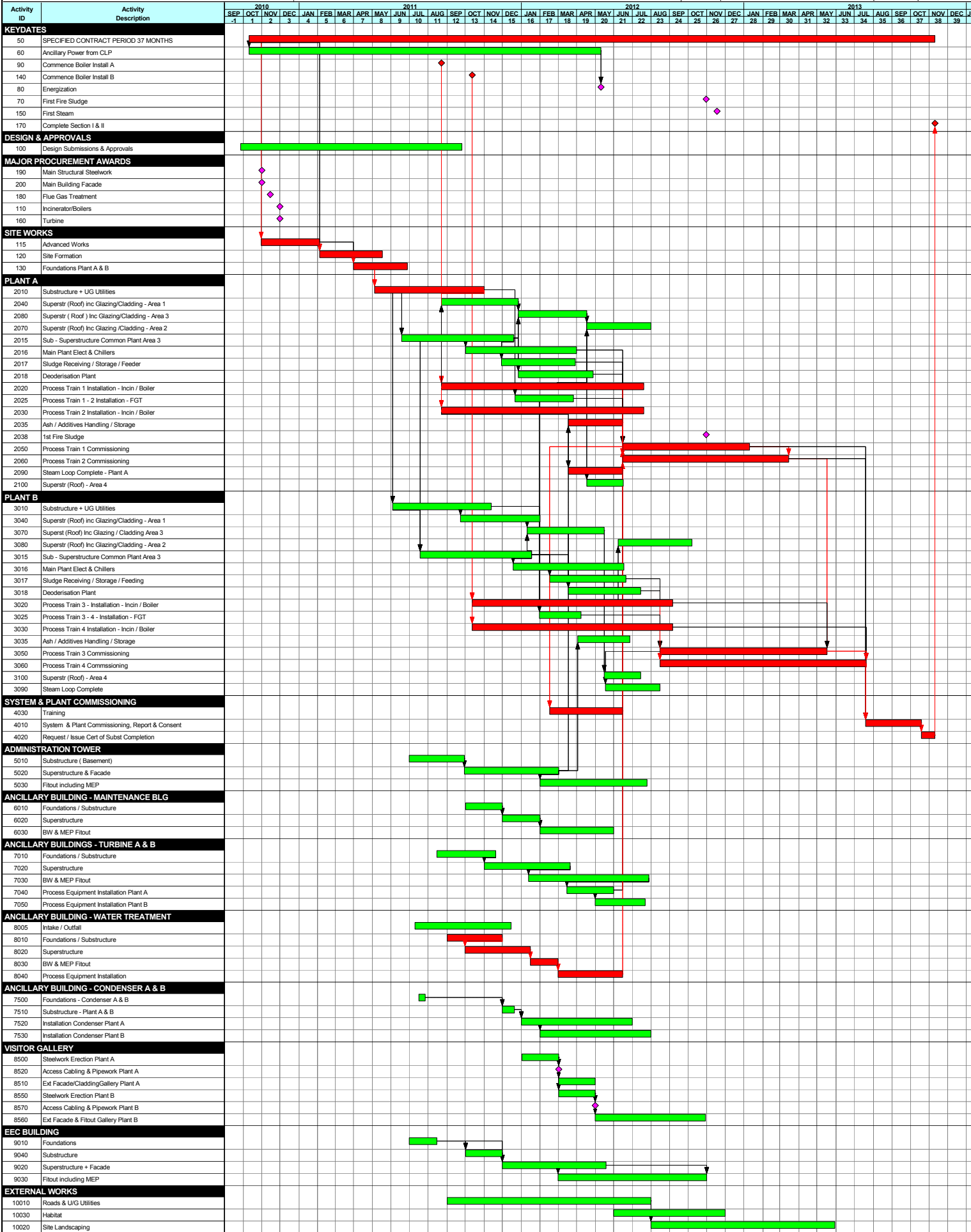
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Appendix 5 Construction Program

HONG KONG SLUDGE TREATMENT FACILITY Project Overview

Date 02DEC10	Revision VLJH-W-PT-ZZ-0002-D01	Checked RGU	Approved NFR
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Appendix 6

Management Structure and Organization Chart

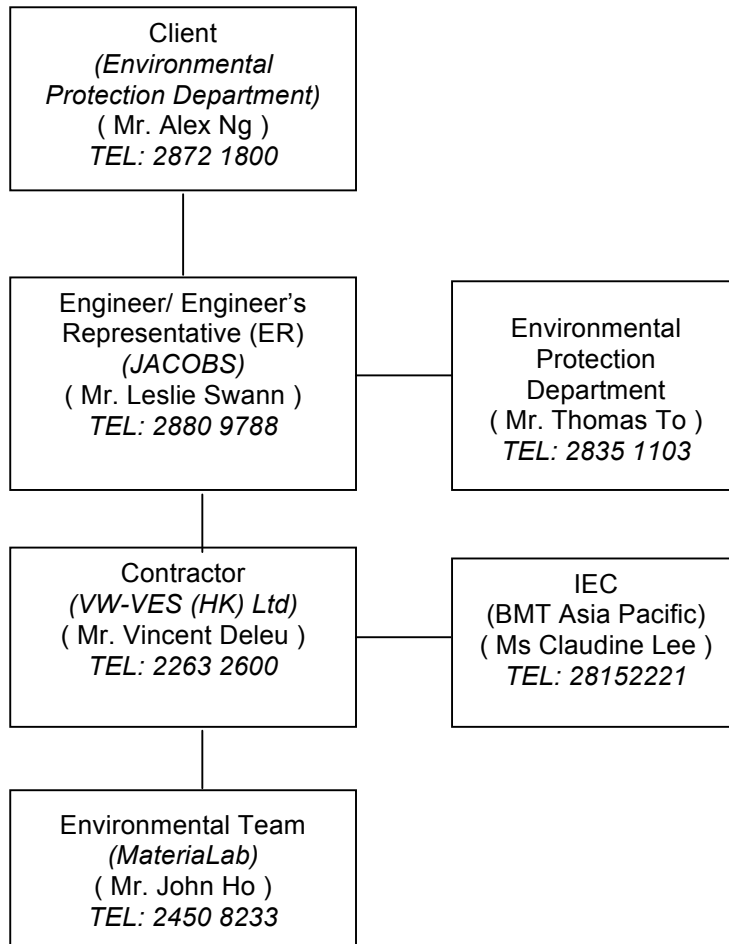
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Management Structure and Organization Chart



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Appendix 7

Event / Action Plan for Water Quality

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Event/Action Plan for Water Quality

Event	ET Leader	IEC	SOR	Contractor
Action level being exceeded by one sampling day	<ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SOR; Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive sampling day	<ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Discuss with IEC on the Proposed mitigation measures; Make agreement on the mitigation measures to be implemented; ◆ Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SOR within three working days; Implement the agreed mitigation measures.

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	<ul style="list-style-type: none"> increase the monitoring frequency to daily; Repeat measurement on next day of exceedance. 			
Limit level being exceeded by one sampling day	<ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SOR and propose mitigation measures to IEC and SOR within three working days; Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive sampling day	<ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness 	<ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SOR and

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	<ul style="list-style-type: none"> • Discuss mitigation measures with IEC, SOR and Contractor; • Ensure mitigation measures are implemented; • Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 		<p>of the implemented mitigation measures;</p> <ul style="list-style-type: none"> • Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	<p>propose mitigation measures to IEC and SOR within three working days;</p> <ul style="list-style-type: none"> • Implement the agreed mitigation measures; • As directed by the SOR, to slow down or to stop all or part of the construction activities.
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Appendix 8

Implementation Schedule of Mitigation Measures

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Table 1. Implementation Schedule and Status of Proposed Air Quality Mitigation Measures

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.8.1	<p>Implementation of the Air Pollution Control (Construction Dust) Regulation and good site practices:</p> <ul style="list-style-type: none"> • Use of regular watering, with complete coverage, to reduce dust emissions from exposed site 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 shall be applied to aggregate fines. • Open stockpiles shall 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. 	Work site / During the construction period	Contractor		√ √ √ √ √ √ √			Air Pollution Control (Construction Dust) Regulation

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EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> Imposition of speed controls for vehicles on unpaved site roads. Ten 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. Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 				√			
					√			
					√			

All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

- Des - Design, C - Construction, O – Operation, and Dec – Decommissioning
- N/A – The associated activities are not in progress during the monitoring month, √ - The proposed mitigation measures is implemented

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Table 2. Implementation Schedule of Proposed Human Health Risk Mitigation Measures

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Human Health Risk Associated with Radon</u></p> <p><i>Prevention of radon influx from the PFA to the STF buildings</i></p> <ul style="list-style-type: none"> A soil cover can be provided beneath the buildings on top of ash lagoon prior to construction works because it reduces the level of radon influx significantly Slab-on-grade can be an option on foundation design Soil suction can also prevent radon from entering the building by drawing the radon from below the building and venting it through a pipe, or pipes, to the air above the building. <p><i>Provision of Sufficient ventilation of the interior of the STF buildings</i></p> <ul style="list-style-type: none"> Forced and natural ventilation should be introduced properly to enhance air exchange rate in the STF buildings. Basement areas should be pressurized by using a fan to blow air into the basement areas from outdoors is suggested. This would create enough pressure at the lowest level indoors to prevent radon from entering into the STF buildings. <p><i>Regular maintenance for the floor slabs and walls</i></p> <ul style="list-style-type: none"> Cracks and other openings in the foundation should be properly sealed to reduce radon ingress. <p>Sealing the cracks limits the flow of radon into the building thereby making other radon reduction techniques more effective and cost-efficient. It also reduces the loss of conditioned air.</p>	STF buildings / During the design, construction and operation of the STF.	Contractor / STF Operator		N/A N/A N/A			EPD's ProPECC Note PN 1/99 Control of Radon Concentration in New Buildings Appendix 2

All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

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- N/A - The associated activities are not in progress during the monitoring month, √ - The proposed mitigation measures is implemented

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Table 3. Implementation Schedule of Proposed Waste Management Measures

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.5.1	<p><i>Good Site Practices</i></p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical handling procedures Provision of sufficient waste disposal points and regular collection of waste Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354) ETWB TCW No. 19/2005
S5.5.1	<p><i>Waste Reduction Measures</i></p> <ul style="list-style-type: none"> 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: 	Work site / During planning & design stage, and construction stage	Contractor		√			

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EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> The design of the foundation works should minimize the amount of excavated material to be generated. Excavated soil should be reused on site as far as possible, e.g. for landscape works, in order to minimize the amount of public fill to be disposed off-site. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Encourage collection of aluminium cans by individual collectors by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force Proper storage and site practices to minimize the potential for damage or contamination of construction materials. Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 				√			
S5.5.1	<p><i>General Refuse</i></p> <p>General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable 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.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)

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S5.5.1	<p><i>Construction and Demolition Material</i></p> <p>In order to minimize 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:</p> <ul style="list-style-type: none"> A Waste Management Plan, which becomes part of the Environmental Management Plan, should be prepared in accordance with ETWB TCW No.19/2005. A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed. In order to monitor the disposal of C&D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be included. One may make reference to ETWB TCW No. 31/2004 for details. 	Work site / During design stage & construction period	Contractor	√	√			<p>ETWB TCW No. 33/2002</p> <p>ETWB TCW No. 19/2005</p> <p>ETWB TCW No. 31/2004</p>
S5.5.1	<p><i>Chemical Waste</i></p> <p>If chemical wastes are produced at the construction site, the Contractor would be required to register with the 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</p>	Work site / During the construction period	Contractor		√			<p>Waste Disposal (Chemical Waste)(General) Regulation)</p>

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	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, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							

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Table 4. Implementation Schedule of Proposed Land Contamination Preventive Measures

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.6.3	<i>Fuel Oil Tank Construction and Test</i> <ul style="list-style-type: none"> The fuel tank to be installed should be of specified durability Double skin tanks are preferable Underground fuel storage tank to be installed should be placed within a concrete pit The concrete pit shall be accessible to allow regular tank integrity tests to be carried out at regular intervals The tank integrity tests should be conducted by an independent qualified surveyor or structural engineer Any potential problems identified in the test should be rectified as soon as possible 	Fuel Oil Storage Tank /	Contractor/ STF Operator	√	√ √ N/A √ √ √			
S5.6.3	<i>Fuel Oil Pipeline Construction and Test</i> <ul style="list-style-type: none"> Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines Double skin pipelines are preferable Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized The integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals Any potential problems identified in the test should be rectified as soon as possible 	Fuel Oil Pipelines/ Design, Construction and Operation Phase	Contractor/ STF Operator	√	√ √ √ √ √			
S5.6.3	<i>Fuel Oil Leakage Detection</i> <ul style="list-style-type: none"> Installation of leak detection device at storage tank and pipelines 	Fuel Oil Storage Tank	Contractor/ STF Operator	N/A	N/A			

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Table 5. Implementation Schedule of Proposed Water Pollution Control Measures

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.2	<p>Construction Runoff and Drainage</p> <ul style="list-style-type: none"> Site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" shall be followed as far as practicable in order to minimize surface runoff and the chance of erosion: At the start of site establishment, internal drainage works and erosion and sedimentation control facilities shall be implemented. Channels, earth bunds or sand bag barriers shall be provided on site to direct stormwater to silt removal facilities. The detailed design and installation of the temporary on-site drainage system shall be undertaken by the contractor prior to the commencement of construction. Before commencing any site formation work, all sewer and drainage connections shall be sealed to prevent debris, soil, sand etc. from entering public sewers/drains. Boundaries of earthworks shall be surrounded by dykes or embankments for flood protection, as necessary. Sand/silt removal facilities such as sand traps, silt traps and sediment basins shall be provided to remove sand/silt particles from runoff to meet the standards of the Technical 	Work site / During the construction period	Contractor		√ N/A √ √ √			ProPECC PN 1/94; WPCO

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EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
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	<p>Memorandum under the Water Pollution Control Ordinance. The design of silt removal facilities shall be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures shall be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms.</p> <ul style="list-style-type: none"> Water pumped out from foundation piles shall be discharged into silt removal facilities. During rainstorms, exposed slope/soil surfaces shall be covered by a tarpaulin or other means, as far as practicable. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94. Exposed soil areas shall be minimized to reduce potential for increased siltation and contamination of runoff. Earthwork final surfaces shall be well compacted and subsequent permanent work or surface protection shall be immediately performed. Open stockpiles of construction materials or construction wastes on-site of more than 50m³ shall be covered with tarpaulin or similar fabric during rainstorms. All vehicles shall be cleaned before leaving the works area to ensure no earth, mud and debris is deposited on roads. An adequately designed and 							

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	sited wheel washing bay shall be provided at every site exit. The wheel washing facility shall be designed to minimize the intake of surface water (rainwater). Wash-water shall have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process.							
S6.7.2	<p><i>General Construction Activities</i></p> <ul style="list-style-type: none"> Debris and refuse generated on-site shall be collected, handled and disposed of properly to avoid entering the nearby water bodies and public drainage system. Stockpiles of cement and other construction materials shall be kept covered when not being used. Oils and fuels shall only be used and stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to nearby water bodies and public drains, all fuel tanks and storage areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund shall be drained of rainwater after a rain event. 	Work site / During the construction period	Contractor		√			ProPECC PN 1/94;
S6.7.2	<p><i>Sewage Effluents</i></p> <ul style="list-style-type: none"> Temporary sanitary facilities, such as portable chemical toilets, shall be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible for appropriate disposal and maintenance of these facilities. 	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO

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S6.7.2	<p><i>Release of PFA Leachate from Ash Lagoon into the Aquatic Environment</i></p> <ul style="list-style-type: none"> Environmental monitoring and audit (EM&A) should be included to ensure that the foundation construction would not cause an unacceptable release of PFA leachate into the Deep Bay waters. The parameters to be measured should include the heavy metals such as cadmium, chromium and aluminium, which have the greatest tendency to leach from the lagooned PFA into the seawater. Details of the measurement requirements are presented in the EM&A manual 	<p>Deep Bay</p> <p>Water outside the Ash Lagoon / During the construction period</p>	Contractor		√			WPCO

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Table 6. Implementation Schedule of Proposed Ecological Mitigation Measures

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S7.8.2	<p>Measures to Minimize Disturbance Impact to Wildlife</p> <ul style="list-style-type: none"> Hoarding of 3m high shall be set up along the boundary of the works areas and associated site access to shield the fauna and breeding population of Little Grebe in the Middle Lagoon from the disturbance impact of machinery. The works boundaries shall not go beyond the proposed Project Area. All work crews, equipment and human activities shall be confined within the designated works area only. No personnel should encroach or wilfully disturb any wild animals and their habitats. Traffic and human access from the western side of the Project Area should be avoided. Fencing with climbers or plantation shall be provided, where appropriate, along the STF site boundary and the two sides of access road to screen the surrounding habitats from the STF works areas. 	<p>Boundary of works areas/ Construction Phase</p> <p>Boundary of works areas/ Construction Phase</p> <p>Boundary of works areas/ Operation Phase</p>	<p>Contractor</p> <p>Contractor</p> <p>Contractor</p>		√			

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S7.8.2	<p>Measures to Minimize Impact to natural habitats</p> <ul style="list-style-type: none"> Where practicable, all proposed works shall be conducted in existing built up area to minimize impact to natural habitats. The abutment (permanent structure) for the vehicular bridge shall avoid streambed. The number and size of the temporary supporting structures to be installed over the streambed during construction shall be minimized as far as practicable. The temporarily affected natural habitats, including streambed, shall be reinstated after the completion of works. For affected natural stream section, placement of substrates of similar size and composition to those of original streambed shall be considered to encourage colonization. 	<p>Works areas/ Design and Construction Phase</p> <p>Vehicular bridge/ Design and Construction Phase</p> <p>Works Area/ Operation Phase</p> <p>Works Area/ Operation Phase</p>	<p>STF Designer/ Contractor</p> <p>STF Designer/ Contractor</p> <p>Contractor</p> <p>Contractor</p>	<p>√</p> <p>√</p> <p></p> <p></p>	<p>√</p> <p>√</p> <p>N/A</p> <p>N/A</p>				<p>ETWB TC (Works)</p> <p>No. 5/2005 Protection of natural streams/ rivers from adverse impacts arising from construction works</p>
S7.8.2	<p><i>Minimise sedimentation/water quality impacts to waterbodies</i></p> <ul style="list-style-type: none"> Measures to control potential sedimentation/ water quality impacts during the construction phase shall be implemented. To minimize the potential water quality impacts from the construction works located at any river channels, natural streams or seafront, the practices outlined in 	<p>Whole Site/ Construction Phase</p>	<p>Contractor</p>		<p>√</p> <p>√</p>			<p>ETWB TC (Works)</p> <p>No. 5/2005 Protection of natural streams/ rivers from adverse impacts arising from construction works</p>	

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	ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" shall be adopted where applicable.							
S7.8.2	<p><i>Minimize noise disturbance</i></p> <ul style="list-style-type: none"> Noise mitigation measures including the use of quieter piling machinery and construction plants shall be implemented to lower the noise level due to construction works. Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction programme. Machines and plant which may be in intermittent use shall be shut down to a minimum. Plant known to emit noise strongly in one direction, shall be oriented so that the noise is directed away from the Middle Lagoon, where possible. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction period. Mobile plant (such as generator) shall be sited as far away from the Middle Lagoon as possible. Material stockpiles and other structures shall be effectively utilized, where practicable, to screen noise from on-site construction activities. 	Whole Site/ Construction Phase	Contractor		√ √ √ N/A √ √			ETWB TC (Works) No. 5/2005 Protection of natural streams/ rivers from adverse impacts arising from construction works

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S7.8.3	<p><i>Measures to Mitigate the Loss of Vegetation</i></p> <ul style="list-style-type: none"> All vegetation located within the work areas shall be preserved as far as practicable. To compensate for the loss of the vegetation and habitats, tree planting shall be provided in the site area where possible. Species chosen for planting shall be similar to the species identified in the survey and be native to Hong Kong or the Southern China. 	Whole Site / Design, Construction and Operation Phase	Contractor / STF Operator	√	√ √			
S7.8.4	<p>Enhancement Measures to Create Additional Habitat for Little Grebe</p> <ul style="list-style-type: none"> An additional habitat for Little Grebe shall be created in a less disturbed area located at the northeastern part of the proposed STF. The created habitat shall be provided in form of shallow pond(s) incorporating suitable habitat characteristics for Little Grebe. The water level of the created pond shall be kept between 1.5 m to 2 m. Emergent vegetation shall be planted and fish population shall be controlled to allow development of aquatic invertebrate populations as prey of Little Grebe. To screen the created habitat from disturbance due to nearby landfill traffic, planting of native plants shall be provided on the boundary of the pond(s) as appropriate. Prior to construction of the pond(s), detailed Habitat Creation and Management Plan (HCMP) of the created habitat prepared by experienced ecologist(s) with over seven year experience in relevant field shall be circulated to relevant departments including AFCD for comment. 	Within Project Area/ Design Phase, Construction and Operation Phase	Contractor / STF Operator	√	N/A N/A N/A N/A N/A			

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Table 7. Implementation Schedule for Landscape and Visual Impact

EIA Ref #	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 9.4 CM-01	<u>Contaminant/ Sediment Control</u> – Suitable temporary barriers, covers and drainage provisions shall be provided around construction works to avoid discharge of contaminants (such as bleeding from in-situ concrete works) and sediments into sensitive water-based habitats, especially the tidal streams and the mangrove.	Work site / During the construction period	Contractor		√			
Table 9.4 CM-02	<u>Early Planting of Tall Trees</u> – Tall trees proposed under mitigation measure OM-02 shall be planted early, providing visual effect also during construction.	Work site / During the construction period	Contractor		N/A			
Table 9.4 CM-03	<u>Good Site Practice</u> – Construction activities should be restricted to works areas and should be clearly demarcated onsite. Piling of construction materials onsite shall be carefully considered for possible impacts before carrying out.	Work site / During the construction period	Contractor		√			
Table 9.4 CM-04	<u>Existing Trees within Works Areas</u> – All existing trees within work sites shall be properly maintained and protected for their crowns, trunks and roots.	Work site / During the construction period	Contractor	√	√			
Table 9.4 OM-01	<u>Sensitive Bridge Design</u> – The bridge of the proposed access road shall be sensitively designed to minimize impact to the tidal stream and mangrove. It shall be constructed with minimal use of in-situ concreting and with maximum use of precast or prefabricated elements. No pile or support shall be erected within the stream channel.	Bridge of access road / During the design & construction phases	Contractor	√	N/A			

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Table 9.4 OM-02	<u>Tall trees for Chimney</u> – Fast-growing tall trees shall be planted along the east side of the ash-lagoon to counterbalance possible exotic silhouettes, such as from the chimney, of the proposed sludge treatment facilities for sensitive viewers in Pak Nai. The trees shall be planted during the early stage of the construction to ensure effectiveness during operation. They will also help to lessen the visual impact during construction, as already suggested in mitigation measure CM-02.	East side of ash lagoon / During the design & construction phases	Contractor	√	N/A			
Table 9.4 OM-03	<u>Suitable Reinstatement at Ash-lagoon</u> – Affected perimeter of the proposed works area within the ash-lagoon shall be reinstated with suitable planting materials. Traditional reinstatement planting approach for construction projects may not work well for this project. Certain existing grasses and small shrubs have self-seeded the ash- lagoon, demonstrating their tolerance to salts, alkalinity and possible trace metals in the ash. Therefore the same or similar species of vegetation shall be used.	Perimeter of works area / During the design & construction phases	Contractor	√	N/A			
Table 9.4 OM-04	<u>Existing Tree Transplanting</u> – The proposed access roadworks may affect few existing trees, which shall be transplanted as far as practical. A comprehensive tree survey is recommended to locate these trees.	Access road / During the design & operation phases	Contractor	√	N/A			
Table 9.4 OM-05	<u>Planting at Road Intersection</u> – Suitable planting of woodland trees and shrubs shall be provided for the proposed access roadworks at the junction with Nim Wan Road.	Junction of access road with Nim Wan Road / During the design & operation phases	Contractor	√	N/A			

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Table 8. Implementation Schedule of Proposed Landfill Gas Hazard Protection Measures

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				Des	C	O	Dec	
S10.7.2	Appointment of Safety Officer Appoint a properly trained safety officer and provide with appropriate equipment to measure and monitor LFG hazard.	Work Site / During the construction phase	Contractor		√			
S10.7.2	Safety Measures - Excavation Staff should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. Excavation procedures and code of practice should be implemented.	Work Site / During the construction phase	Contractor		√			
S10.7.2	<i>Safety Measures – Welding, Flame-Cutting and Hot works</i> Hot works should be confined to open areas away from any trench or excavation. Should hot works must be carried out in trenches or confined space, “permit to work” procedures should be followed.	Work Site / During the construction phase	Contractor		√			
S10.7.2	Safety Measures – Enclosed Spaces Site offices or buildings located within WENT Landfill Consultation Zone which have the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas; or be raised clear of the ground by a minimum of 500mm.	Enclosed Spaces within WENT Consultant Zone / During the construction phase	Contractor		N/A			
S10.7.2	Safety Measures – Electrical Equipment Any electrical equipment, such as motors and extension cords, should be intrinsically safe.	Work Site / During the construction phase	Contractor		N/A			

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S10.7.2	Safety Measures – Piping During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed as installed to prevent the migration of gases through the pipeline/conduit. All piping/conduiting should be capped at the end of each working day.	Work Site / During the construction phase	Contractor		N/A			
S10.7.2	Safety Measures – Fire Safety Adequate fire safety equipments should be provided on site. Workers and visitors should be notified of the potential fire hazards. Safety notices should be posted around the site warning the anger and potential hazards.	Work Site / During the construction phase	Contractor		√			
S10.7.2	Safety Measures – Confined Spaces Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces, and that appropriate monitoring procedures are in place to prevent hazards in confined spaces.	Confined Spaces at Work Site / During the construction phase	Contractor		N/A			
S10.7.2	Monitoring Periodically during ground-works within the Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored shall be set down prior to commencement of ground-works. Depending on the results of the measurements, actions required will vary. As a minimum these should encompass those actions specified in Table 10.6 of the EIA Report.	Work Site / During the construction phase	Contractor		N/A			

All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

- Des - Design, C - Construction, O - Operation and Dec – Decommissioning
- N/A – The associated activities are not in progress during the monitoring month, √ - The proposed mitigation measures is implemented

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MateriaLab

Appendix 9

Incident Report on Action Level or Limit Level Non-compliance

FUGRO TECHNICAL SERVICES LIMITED

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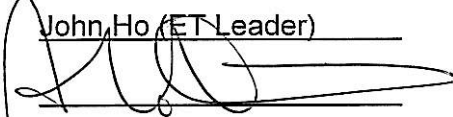
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Website : www.materiallab.com.hk



Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	26 May 2011
Time	09:34 to 10:11 (Mid-ebb)
Monitoring Location	W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: 5 mg/L; C2: 18 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: 5 mg/L; C2: 20 mg/L)
Measured Level	W2 : 8 mg/L (exceed Limit Level) W3 : 8 mg/L (exceed Limit Level) C1 : 4 mg/L C2 : 15 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C1.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	

Prepared by : John Ho (ET Leader)
Signature : 
Date : 01 June 2011

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Our Ref. No. : 100440
 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	26 May 2011
Time	09:34 to 10:11 (Mid-ebb)
Monitoring Location	W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: 7.1 NTU; C2: 4.1 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: 7.7 NTU; C2: 4.4 NTU)
Measured Level	W2 : 5.9 NTU (exceed Limit Level) W3 : 5.8 NTU (exceed Limit Level) C1 : 5.9 NTU C2 : 3.4 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	

Prepared by : John Ho (ET Leader)

Signature : 

Date : 28 May 2011

FUGRO TECHNICAL SERVICES LIMITED

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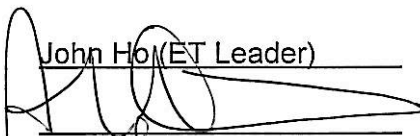
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Our Ref. No. : 100440
 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	26 May 2011
Time	14:05 to 14:45 (Mid-flood)
Monitoring Location	W1, W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 8 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 9 mg/L)
Measured Level	W1 : 10 mg/L (exceed Limit Level) W2 : 20 mg/L (exceed Limit Level) W3 : 14 mg/L (exceed Limit Level) C2 : 7 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by :  John Ho (ET Leader)

Signature :

Date : 01 June 2011

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MateriaLab

Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	26 May 2011
Time	14:05 to 14:45 (Mid-flood)
Monitoring Location	W1, W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: *; C2: 6.2 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: *; C2: 6.8 NTU)
Measured Level	W1 : 6.8 NTU (exceed Limit Level) W2 : 11.7 NTU (exceed Limit Level) W3 : 10.9 NTU (exceed Limit Level) C2 : 5.2 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 28 May 2011

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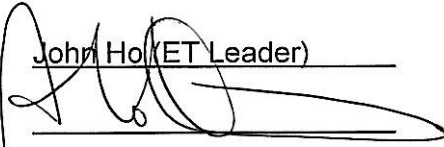
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Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : **Contract No. EP/SP/58/08**

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	28 May 2011
Time	11:18 to 11:52 (Mid-ebb)
Monitoring Location	W1, W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 2 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 3 mg/L)
Measured Level	W1 : 5 mg/L (exceed Limit Level) W2 : 15 mg/L (exceed Limit Level) W3 : 8 mg/L (exceed Limit Level) C2 : 2 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 01 June 2011

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Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	28 May 2011
Time	11:18 to 11:52 (Mid-ebb)
Monitoring Location	W1, W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: *; C2: 2.9 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: *; C2: 3.1 NTU)
Measured Level	W1 : 3.9 NTU (exceed Limit Level) W2 : 12.8 NTU (exceed Limit Level) W3 : 6.1 NTU (exceed Limit Level) C2 : 2.4 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 30 May 2011

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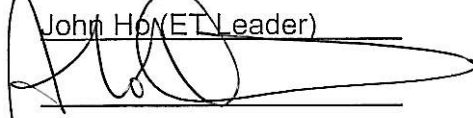
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 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	28 May 2011
Time	16:26 to 16:56 (Mid-flood)
Monitoring Location	W1, W2 and W3
Parameter	pH
Action & Limit Levels	Action Level : ≤ 7.55 or ≥ 8.11 Limit Level : ≤ 6 or ≥ 9
Measured Level	W1 : 8.24 (exceed Action Level) W2 : 8.34 (exceed Action Level) W3 : 8.17 (exceed Action Level) C2 : 8.59
Possible reason for Action or Limit Level Non-compliance	Piling in progress but far away from the stream. The exceedance was subject to the influent of the high pH from C2.
Actions taken / to be taken	Exceedance was not related to site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
 Signature : 
 Date : 30 May 2011

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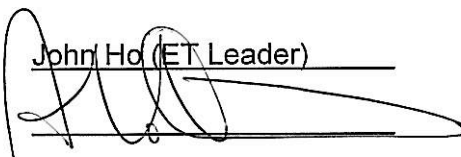
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Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	28 May 2011
Time	16:26 to 16:56 (Mid-flood)
Monitoring Location	W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 17 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 18 mg/L)
Measured Level	W2 : 32 mg/L (exceed Limit Level) W3 : 43 mg/L (exceed Limit Level) C2 : 14 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
Signature : 
Date : 01 June 2011

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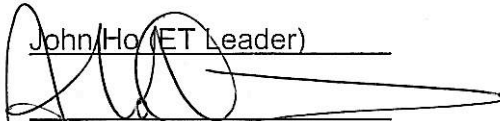
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 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	28 May 2011
Time	16:26 to 16:56 (Mid-flood)
Monitoring Location	W1, W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: *; C2: 4.0 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: *; C2: 4.3 NTU)
Measured Level	W1 : 10.3 NTU (exceed Limit Level) W2 : 21.3 NTU (exceed Limit Level) W3 : 23.3 NTU (exceed Limit Level) C2 : 3.3 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 30 May 2011

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MaterialLab

Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	31 May 2011
Time	12:29 to 13:23 (Mid-ebb)
Monitoring Location	W1, W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 1 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 1 mg/L)
Measured Level	W1 : 6 mg/L (exceed Limit Level) W2 : 8 mg/L (exceed Limit Level) W3 : 35 mg/L (exceed Limit Level) C2 : 1 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
Signature : 
Date : 03 June 2011

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Our Ref. No. : 100440
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 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	31 May 2011
Time	12:29 to 13:23 (Mid-ebb)
Monitoring Location	W1, W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: *; C2: 2.6 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: *; C2: 2.9 NTU)
Measured Level	W1 : 5.2 NTU (exceed Limit Level) W2 : 11.0 NTU (exceed Limit Level) W3 : 14.5 NTU (exceed Limit Level) C2 : 2.2 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 01 June 2011

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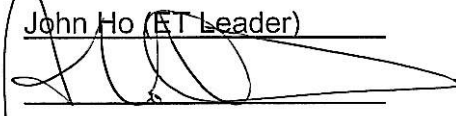
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 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	31 May 2011
Time	16:22 to 16:58 (Mid-flood)
Monitoring Location	W1 and W2
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 11 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 12 mg/L)
Measured Level	W1 : 15 mg/L (exceed Limit Level) W2 : 39 mg/L (exceed Limit Level) C2 : 9 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
 Signature : 
 Date : 03 June 2011

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Our Ref. No. : 100440
 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	31 May 2011
Time	16:22 to 16:58 (Mid-flood)
Monitoring Location	W1 and W2
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: *; C2: 3.8 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: *; C2: 4.2 NTU)
Measured Level	W1 : 11.6 NTU (exceed Limit Level) W2 : 19.6 NTU (exceed Limit Level) C2 : 3.2 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
 Signature : 
 Date : 01 June 2011

FUGRO TECHNICAL SERVICES LIMITED

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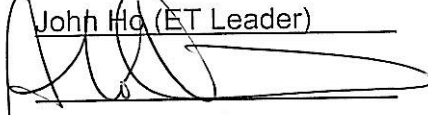
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Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	02 June 2011
Time	08:40 to 09:17 (Mid-flood)
Monitoring Location	W2
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 6 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 7 mg/L)
Measured Level	W2 : 8 mg/L (exceed Limit Level) C2 : 5 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
Signature : 
Date : 03 June 2011

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Website : www.materialab.com.hk

Materialab

Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : **Contract No. EP/SP/58/08**

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	02 June 2011
Time	13:31 to 14:07 (Mid-ebb)
Monitoring Location	W1, W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L or 120% of control station (i.e. C1: *; C2: 4 mg/L) Limit Level : ≥ 85 mg/L or 130% of control station (i.e. C1: *; C2: 4 mg/L)
Measured Level	W1 : 11 mg/L (exceed Limit Level) W2 : 16 mg/L (exceed Limit Level) W3 : 17 mg/L (exceed Limit Level) C2 : 3 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. Exceedance is not related to construction activity but was due to the low suspended solids content at C2.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 03 June 2011

FUGRO TECHNICAL SERVICES LIMITED

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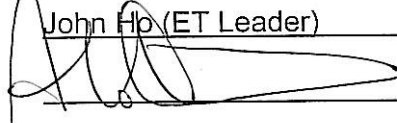
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 Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440
 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	02 June 2011
Time	13:31 to 14:07 (Mid-ebb)
Monitoring Location	W1, W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU or 120% of control station turbidity (i.e. C1: *; C2: 2.2 NTU) Limit Level : ≥ 78.9 NTU or 130% of control station turbidity (i.e. C1: *; C2: 2.3 NTU)
Measured Level	W1 : 7.4 NTU (exceed Limit Level) W2 : 11.6 NTU (exceed Limit Level) W3 : 13.4 NTU (exceed Limit Level) C2 : 1.8 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to the low turbidity recorded at C2.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
 Signature : 
 Date : 03 June 2011

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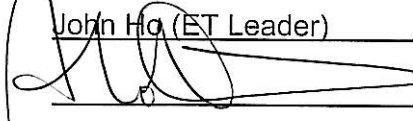
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MaterialLab

Our Ref. No. : 100440
 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	11 June 2011
Time	15:20 to 15:50 (Mid-flood)
Monitoring Location	W2 and W3
Parameter	Suspended solids content
Action & Limit Levels	Action Level : ≥ 41 mg/L and 120% of control station (i.e. C1: *; C2: 8 mg/L) Limit Level : ≥ 85 mg/L and 130% of control station (i.e. C1: *; C2: 9 mg/L)
Measured Level	W2 : 62 mg/L (exceed Action Level) W3 : 49 mg/L (exceed Action Level) C2 : 7 mg/L
Possible reason for Action or Limit Level Non-compliance	Piling at North part of the Lagoon and far away from the stream. The exceedance is due to turbid water back flowing from Deep Water Bay into Tsang Kok Stream.
Actions taken / to be taken	The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)
 Signature : 
 Date : 14 June 2011

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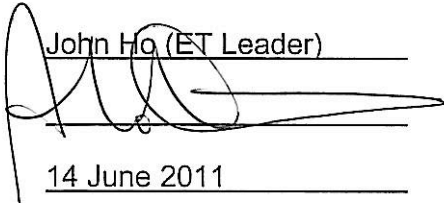
MaterialLab

Our Ref. No. : 100440
 Client : VW-VES (HK) Ltd.
 Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

Project	Sludge Treatment Facilities
Date	11 June 2011
Time	15:20 to 15:50 (Mid-flood)
Monitoring Location	W2 and W3
Parameter	Turbidity
Action & Limit Levels	Action Level : ≥ 36.4 NTU and 120% of control station turbidity (i.e. C1: *; C2: 2.6 NTU) Limit Level : ≥ 78.9 NTU and 130% of control station turbidity (i.e. C1: *; C2: 2.9 NTU)
Measured Level	W2 : 52.8 NTU (exceed Action Level) W3 : 41.3 NTU (exceed Action Level) C2 : 2.2 NTU
Possible reason for Action or Limit Level Non-compliance	The exceedance is due to turbid water back flowing from Deep Water Bay into Tsang Kok Stream.
Actions taken / to be taken	Piling was in progress but far away from the stream. The exceedance was not related to the site activities. Ad-hoc monitoring is cancelled.
Remarks	There was no water found at C1. In-situ measurement and sampling at C1 was cancelled.

Prepared by : John Ho (ET Leader)

Signature : 

Date : 14 June 2011

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, black, sans-serif font. The text is centered between two thick, horizontal black bars.

Appendix 10

Approval letter for revision of Action Level and Limit Level criteria

本署編號
 OUR REF: (5) in EP2/N4/G/94 Pt 6
 來函編號
 YOUR REF: HKSTF-VWVE-EPD-EIA-LE-110420-001
 電話
 TEL. NO.: 2835 1751
 傳真號碼
 FAX NO.: 2591 0558
 電子郵件
 E-MAIL:
 網址
 HOMEPAGE: <http://www.epd.gov.hk>

Environmental Protection Department
Branch Office
 28th Floor, Southorn Centre,
 130 Hennessy Road,
 Wan Chai, Hong Kong.



環境保護署分處
 香港灣仔
 軒尼詩道
 一百二十號
 修頓中心廿八樓

By Fax: 2430 8011

3 June, 2011

VW-VES (HK) Ltd.
 Level 30, Tower 1, Kowloon Commerce Centre
 No. 51 Kwai Cheong Road
 Kwai Chung
 Hong Kong
 (Attn.: Mr. Vincent Deleu)

Dear Mr. Deleu,

Sludge Treatment Facilities
Environmental Permit (No. FEP-01/334/2009)
Proposed Amendments of Stream Water Quality Monitoring Criteria

We refer to your letter of 20 April 2011 on the above subject.

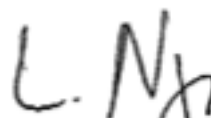
Based on your submitted information, we understand that the water quality monitoring at Tsang Kok Stream has been significantly affected by the seawater from Deep Bay rather than the construction activities relating to the proposed Sludge Treatment Facilities.

In view of the above and in accordance with Condition 3.1 of the Environmental Permit No. FEP-01/334/2009, we have no objection to your proposal of:

- (a) revising the Action and Limit Levels of Suspended Solids (SS) recommended in Table 5.3 of the EM&A Manual to “ ≥ 95 %-ile of baseline data and 120 % of control station’s SS on the same day of measurement” and “ ≥ 99 %-ile of baseline data and 130 % of control station’s SS on the same day of measurement” respectively; and
- (b) revising the Action and Limit Levels of Turbidity recommended in Table 5.3 of the EM&A Manual to “ ≥ 95 %-ile of baseline data and 120 % of control station’s Turbidity on the same day of measurement” and “ ≥ 99 %-ile of baseline data and 130 % of control station’s Turbidity

on the same day of measurement" respectively.

Yours faithfully,



(Lawrence K KINGO)

Senior Environmental Protection Officer
for Director of Environmental Protection

c.c.	Fugro Technical Services Ltd.	(Attn: Mr. John Ho)	Fax: 2450 6138
	BMT	(Attn: Ms. Claudine Lee)	Fax: 2815 3377

ID: STFltr1.6.11

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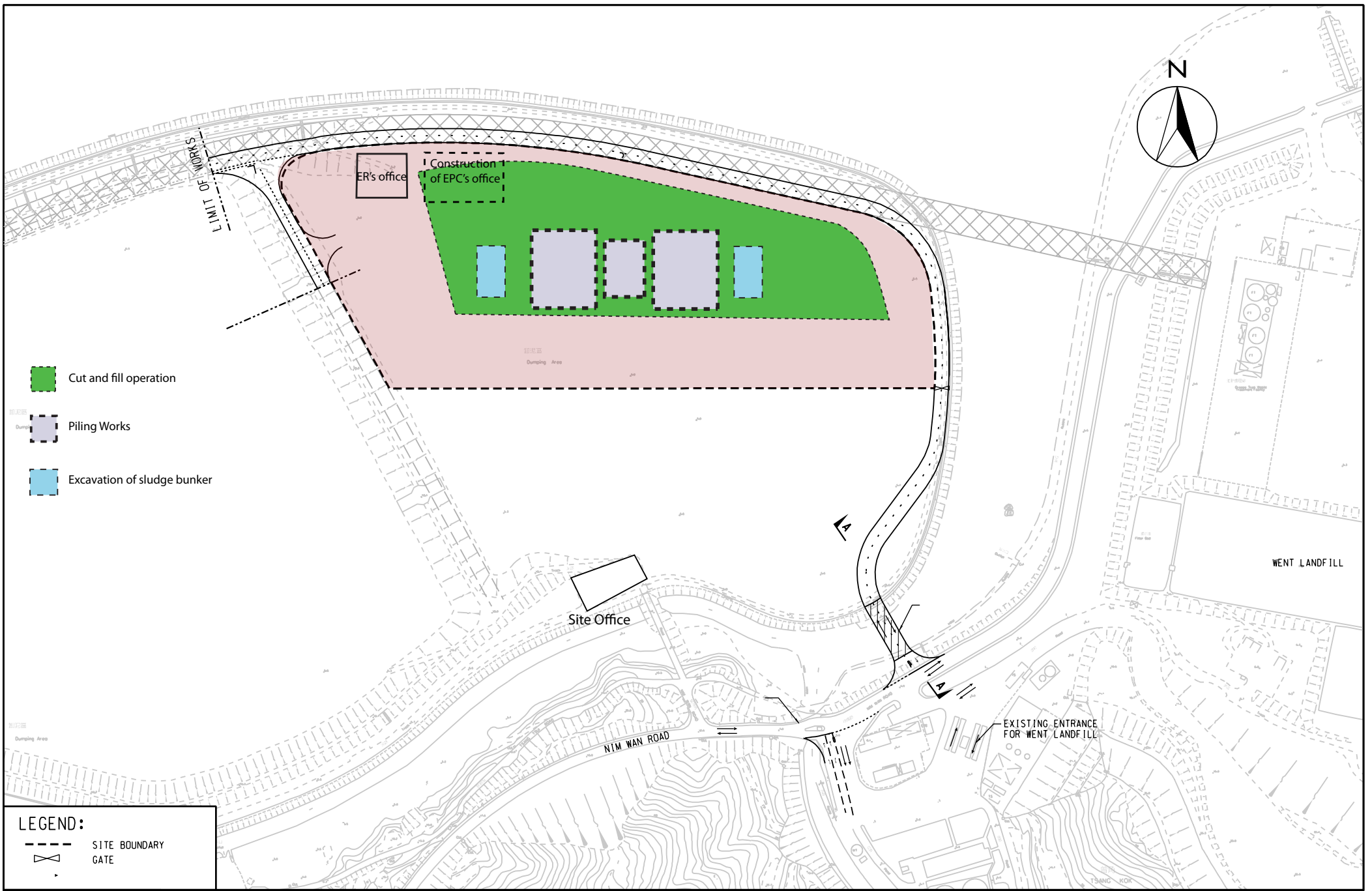
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Figure 1.1

Construction Works Area



- Cut and fill operation
- Piling Works
- Excavation of sludge bunker

LEGEND:

- SITE BOUNDARY
- GATE

MAUNSELL | AECOM
 Metcalf & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
 SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
GENERAL LAYOUT OF PROPOSED SLUDGE TREATMENT FACILITIES (STF)

SCALE	A3 1:2500	DATE	JAN. 2008
CHECK	-	DRAWN	MJM
JOB No.	60015756	DRAWING No.	FIGURE 1.1
		REV	-

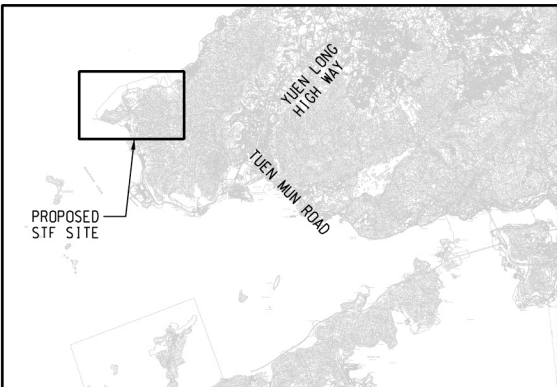
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Figure 3.1
Site Layout Plan



PROPOSED STF SITE

KEY PLAN
A3 1:250000



DEEP BAY

PROPOSED SLUDGE TREATMENT FACILITIES

EXISTING CLP ASH LAGOON AT TSANG TSUI

WENT LANDFILL

大 水 坑
Tai Shui Hong 831250 N

BLACK POINT POWER STATION

TSANG KOK STREAM

BLACK POINT

830000 N

URMSTON ROAD

配水庫
Ser Res

龍鼓上灘
Lung Awu
Sheung Tan

807500 E

808750 E

810000 E

811250 E

DATE: GUOXH 2008-9-30

MAUNSELL | AECOM
Metcalf & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
LOCATION PLAN OF PROPOSED SLUDGE TREATMENT FACILITIES

SCALE	A3 1:12500	DATE	SEP. 2008
CHECK	PPMY	DRAWN	XCF
JOB No.	60015756	DRAWING No.	FIGURE 1.1
		REV	-

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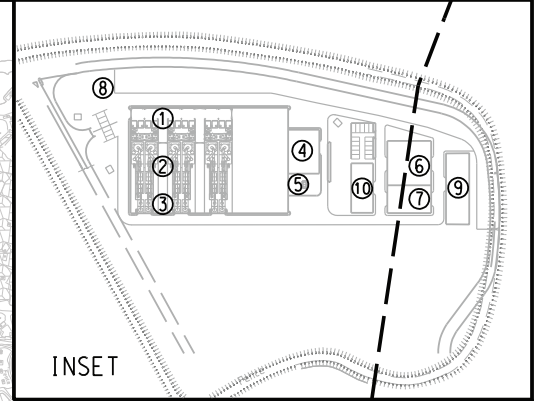
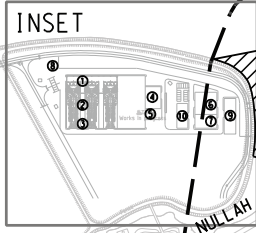
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Figure 3.2

WENT Landfill Gas Control Zone



SECTION OF NULLAH
WHERE WATER IS ALWAYS
PRESENT



LEGEND

- ① DELIVERY BAY
- ② INCINERATORS AND AIR CONTROL EQUIPMENT
- ③ FUEL GAS RESIDUE SILOS, ASH SILOS & LOADING AREA
- ④ CHEMICAL / FUEL STORAGE AND FEEDING
- ⑤ STACK
- ⑥ ADMINISTRATION BUILDING & LABORATORY
- ⑦ MAINTENANCE WORKSHOP
- ⑧ UTILITY YARD
- ⑨ DESALINATION PLANT, SEAWATER PUMPING STATION & STORAGE TANK
- ⑩ SEWAGE TREATMENT WORKS

WENT LANDFILL
CONSULTATION ZONE
BOUNDARY

WENT LANDFILL
WASTE BOUNDARY

DATE: \$DATE\$

MAUNSELL | AECOM
Metcalf & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
WENT LANDFILL CONSULTATION ZONE

SCALE	1:11000	DATE	APR. 2008
CHECK	TCYC	DRAWN	ALFA
JOB No.	60039510	DRAWING No.	FIGURE 10.1
		REV	-

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Figure 4.1

Ecological Transect Route

0m 100m 200m 300m 400m



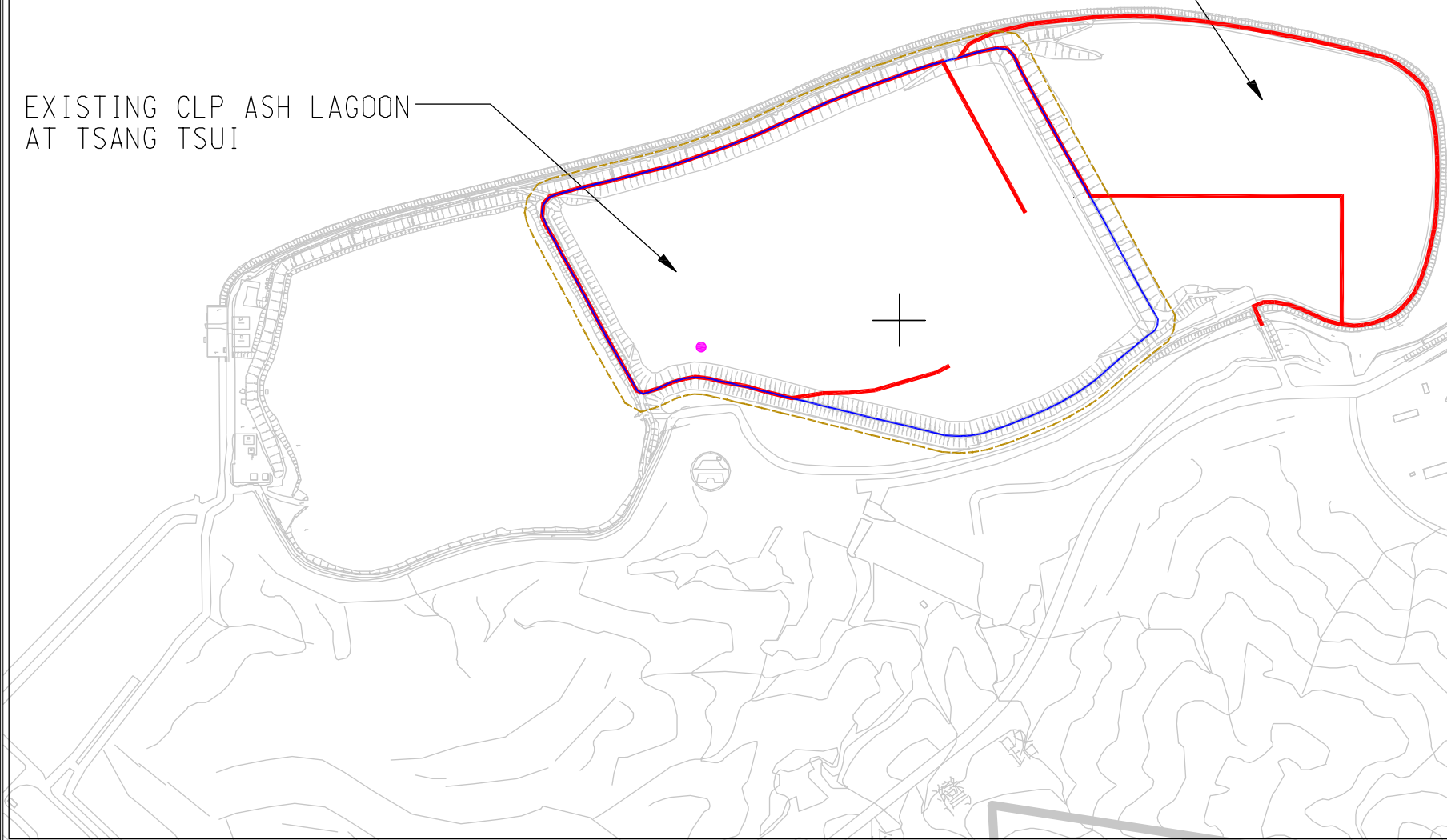
Notes:

- Survey Route
- Middle Lagoon Boundary
- 20m from Middle Lagoon Boundary
- Approximate Location of Little Grebe Nest

DEEP BAY

PROPOSED SLUDGE
TREATMENT FACILITIES

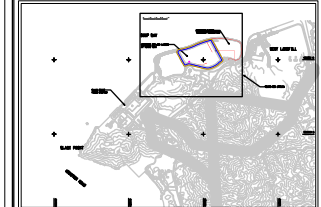
EXISTING CLP ASH LAGOON
AT TSANG TSUI



Project Title:

Contract No. EP/SP/58/08
Sludge Treatment Facilities

Key Plan:



Drawing Title:

Ecological Transect Route

Drawn: SK	Scale: As shown
Checked: DJS	Date: May 2011
Approved: DJS	File: --
Drawing Number: -	Revision 1