Appendix H

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	RES	Site No.:	AM1
Date of visit:	17-5-2001	Hour of Visit:	11:00
Staff name:	W L Mak	HVAS S/N:	EVC7B03
Used filter paper no.:	LN45	New filter paper no.:	LN47
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 297+26.7 / 299.7 K Pressure, P_a = 1009 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading (ΔH_{STD}) corresponds to Q_{STD} = 40 ft^3/min.	Manometer reading at site conditions
EV08B01	5.1 (4/01)	$\Delta H_a = 1.500(P_a/T_a)$ =
EV08B02	5.0 (3/01)	$\Delta H_a = 1.471(P_a/T_a)$ = 4.95

Manometer reading before calibration: 4.90

Adjustment of flow controller (Y/N): N

Manometer reading after calibration: 4.90

Note: Manometer reading corrected to ambient conditions: $\Delta H_a = \Delta H_{STD}(P_a/P_{STD})(T_{STD}/T_a)$

III. General Conditions of HVAS

IV. Remarks

HIGH VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	Eb	Site No.:	AM2
Date of visit:	17-5-2001	Hour of Visit:	11:25
Staff name:	WL/MH/HK Tsang	HVAS S/N:	2195
Used filter paper no.:	UN44	New filter paper no.:	UU47
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 293+26.9 / 299.9 K Pressure, P_a = 1015 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading (ΔH_{STD}) corresponds to Q_{STD} = 40 ft^3/min.	Manometer reading at site conditions
EV08B01	5.1 (4/01)	$\Delta H_a = 1.500(P_a/T_a)$ =
✓EV08B02	5.0 (3/01)	$\Delta H_a = 1.471(P_a/T_a)$ = 4.98

Manometer reading before calibration: 5.20

Adjustment of flow controller (Y/N): Y

Manometer reading after calibration: 5.00

Note: Manometer reading corrected to ambient conditions: $\Delta H_a = \Delta H_{STD}(P_a/P_{STD})(T_{STD}/T_a)$

III. General Conditions of HVAS

IV. Remarks

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name ASH LAGOON   Site Number AM3

Date of Visit 23-5-2001   Hour of Visit 1055

Staff Name WL LMAK / SCHAN   Partisol S/N: 2000B 20550000 1

Used Filter No.: AL12   New Filter No.: AL13

Ambient temperature: 30°   Ambient pressure: 1005 mb

I. General Services

1. Replace control unit Large In-line Filter ✗
2. Clean the sample inlet head ✓
3. Clean sample tube ✗
4. Clean / Replace pump head ✓
5. Clean / Replace piston ✗

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check (Ambient temperature ± 2°C)

_______ °C Before   Calibration: Y / N   _______ °C After

2. Pressure Check (Ambient pressure ± 20 mbar)(factor = 0.000987)

_______ mbar Before   Calibration: Y / N   _______ mbar After

3. Flow Check (16.7± 1.1 litre/min)

_______ cc/min Before   Calibration: Y / N   _______ cc/min After

III. Remarks

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____

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MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	TY.V	Site No.:	AM4
Date of visit:	17-X-2001	Hour of Visit:	11:05
Staff name:	H.K. TSANG	MINIVOL S/N:	204P
Used filter paper no.:	ME75	New filter paper no.:	ME76

Type of filter: ~~Cellulose~~ / Glass-fibre
(Delete as appropriate)

I. Calibration is performed by using Drycal DC-2 Flow Calibrator
5 Sl/min set point is recommended

4PPo Before 4PPo After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / replace Pump Valves: x
3. Clean / replace Pump Diaphragms: x
4. Clean Impaction Inlet: ✓
5. Replace Timer Battery Every 6 months: x
6. Replace Inlet Filter: ✓

III. Remarks

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
TEOM 1400A CONTINUOUS DUST MONITOR
DATA QUALITY ASSURANCE LOG SHEET

Month : MAY Year : 2001

Reservoir (AM1)					
Date	Frequency (Hz) (260 – 280)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
4-5-2001	269.92	0.025	4	1.00	15.63
10-5-2001	269.69	0.025	4	1.00	15.65
16-5-2001	269.40	0.016	4	1.00	15.63
22-5-2001	269.25	0.029	4	1.00	15.64
28-5-2001	269.06	0.019	4	1.00	15.65

East Gate (AM2)					
Date	Frequency (Hz) (230 – 250)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
4-5-2001	244.32	0.031	4	1.00	15.66
10-5-2001	244.34	0.044	4	0.99	15.66
16-5-2001	244.22	0.025	4	1.00	15.65
22-5-2001	244.16	0.042	4	1.00	15.63
28-5-2001	244.05	0.038	4	1.00	15.66

Ash Lagoon (AM3)					
Date	Frequency (Hz) (230 – 250)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
4-5-2001	244.58	0.031	4	1.00	15.65
10-5-2001	244.44	0.054	4	1.00	15.64
16-5-2001	244.23	0.017	4	0.99	15.64
22-5-2001	244.13	0.084	4	1.00	15.65
28-5-2001	245.86	0.028	4	1.00	15.65

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓		✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter			
Pump Repair	✓		
Leak Check	✓		
Flow Audit			
Flow Controller Calibration A/C filter cleaning	✓	✓	✓

Remarks:

Prepared by : Alex .

Checked by : Cek

C:\alex\teomchk.doc

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
NOISE MONITORING STATION
SITE VISIT LOG SHEET

Location Ash Lagoon/~~Ching Lam*~~

Date 16-5-2001 Time 11:00

Equipment Rion NA-27 Sound Level Meter

Serial Number ~~00111465~~/00111466/~~00111467*~~

Staff Attended T.L. CHU ; H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 94

Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

a. ~~Sunny/fine~~/cloudy/s~~howery/heavy rain*~~

b. ~~Strong wind~~/breeze/~~calm*~~

3. Remark/Observation

Note: * - Please delete where inappropriate

28/3/2001

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
NOISE MONITORING STATION
SITE VISIT LOG SHEET

Location ~~Ash Lagoon~~/Ching Lam*

Date 16-5-2001 Time 1055

Equipment Rion NA-27 Sound Level Meter

Serial Number 00111465/~~00111466/00111467*~~

Staff Attended W L Mak

1. Calibration

   Acoustic calibrator used Rion NC-74

   Calibration level before adjustment (dB(A)) 93.6

   Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

   a. ~~Sunny/fine~~/cloudy/~~showery/heavy~~ rain*

   b. ~~Strong~~ wind/~~breeze/calm*~~

3. Remark/Observation

Note: * - Please delete where inappropriate

28/3/2001

Equipment Calibration Record

Equipment No.	CM-ESG-022	Equipment description	YSI 6820 Multi-parameter Water Quality Monitor
Calibration method reference	OD-ESG-075	Calibration equipment used (if any)	--

	pH	DO	Turbidity
Use of Reference material (if any)	pH 6.86 & 10.01 buffer RM ESG-006 RM ESG-007	--	0 NTU & 200 NTU RM-ESG-0002 RM-ESG-0003
Permissible tolerance of calibration	± 0.12 pH	±5%	±5%

Calibration Result

Date	Standard	pH 6.86	pH 10.01	DO 100%	Turbidity 0	Turbidity 200	Calibrated by
2/5/01	Before	6.80	10.06	98.7	0.4	201.3	Franky.
	After	6.86	10.01	100.0	0	200.0	
4-5-01	Before	6.81	10.02	[illegible]	0.1	204.0	TC Chan
	After	6.86	10.01	100.0	0.0	200.0	
7-5-01	Before	6.80	10.05	97.2	0.5	203.1	TC Chan
	After	6.86	10.01	100.0	0.0	200.0	
9-5-01	Before	6.84	9.98	99.8	-0.2	197.8	TC Chan
	After	6.86	10.01	100.0	0.0	200.0	
11-5-01	Before	6.79	10.07	94.5	-0.3	208.2	TC Chan
	After	6.86	10.01	100.0	0.0	200.0	
15/5/01	Before	6.81	10.05	98.9	-0.1	204.3	Franky.
	After	6.86	10.01	100.0	0.0	200.0	
17/5/01	Before	6.80	10.08	98.5	-0.3	201.2	Franky.
	After	6.86	10.01	100.0	0.0	200.0	
19-5-01	Before	6.79	10.03	94.5	0.0	202.2	Franky.
	After	6.86	10.01	100.0	0.0	200.0	
21/5/01	Before	6.82	9.98	96.5	0.2	201.3	Franky.
	After	6.86	10.01	100.0	0.0	200.0	
23/5/01	Before	6.80	10.07	98.4	-0.1	205.4	Franky.
	After	6.86	10.01	100.0	0.0	200.0	
25/5/01	Before	6.83	9.99	96.4	0.2	204.2	L
	After	6.86	10.01	100.0	0.0	200.0	
28/5/01	Before	6.80	10.04	98.7	0.1	200.4	L
	After	6.86	10.01	100.0	0.0	200.0	
30/5/01	Before	6.84	10.02	97.6	-0.2	203.0	L
	After	6.86	10.01	100.0	0.0	200.0	
	Before						
	After						

Approved by EMC: ____________ Date: 31/5/01

SUMMARY OF QUALITY CONTROL DATA - BLANK RESULTS

Parameter	Control Limit	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	
Suspended Solids mg/L	< 1	BK 0105003	< 1	BK 0105103	< 1	BK 0105203	< 1	BK 0105303	< 1	BK 0105105	< 1	BK 0105005	< 1	BK 0105205	< 1	
		BK 0105305	< 1	BK 0105008	< 1	BK 0105108	< 1	BK 0105208	< 1	BK 0105308	< 1	BK 0105010	< 1	BK 0105110	< 1	
		BK 0105210	< 1	BK 0105310	< 1	BK 0105014	< 1	BK 0105114	< 1	BK 0105214	< 1	BK 0105314	< 1	BK 0105016	< 1	
		BK 0106116	< 1	BK 0105216	< 1	BK 0105316	< 1	BK 0105018	< 1	BK 0105118	< 1	BK 0105218	< 1	BK 0105318	< 1	
		BK 0105021	< 1	BK 0105121	< 1	BK 0105221	< 1	BK 0105321	< 1	BK 0105421	< 1	BK 0105022	< 1	BK 0105122	< 1	
		BK 0105222	< 1	BK 0105322	< 1	BK 0105024	< 1	BK 0105124	< 1	BK 0105324	< 1	BK 0105424	< 1	BK 0105028	< 1	
		BK 0105128	< 1	BK 0105228	< 1	BK 0105328	< 1	BK 0105029	< 1	BK 0105129	< 1					**Total: 47**
Unionized Ammonia (as Ammonia) mg/L	< 0.01	BK 0105004	< 0.01	BK 0105104	< 0.01	BK 0105204	< 0.01	BK 0105304	< 0.01	BK 0105007	< 0.01	BK 0105107	< 0.01	BK 0105207	< 0.01	
		BK 0105307	< 0.01	BK 0105008	< 0.01	BK 0105108	< 0.01	BK 0105208	< 0.01	BK 0105308	< 0.01	BK 0105010	< 0.01	BK 0105110	< 0.01	
		BK 0105210	< 0.01	BK 0105310	< 0.01	BK 0105014	< 0.01	BK 0105114	< 0.01	BK 0105214	< 0.01	BK 0105314	< 0.01	BK 0105016	< 0.01	
		BK 0105116	< 0.01	BK 0105216	< 0.01	BK 0105316	< 0.01	BK 0105018	< 0.01	BK 0105118	< 0.01	BK 0105218	< 0.01	BK 0105318	< 0.01	
		BK 0105021	< 0.01	BK 0105121	< 0.01	BK 0105221	< 0.01	BK 0105321	< 0.01	BK 0105022	< 0.01	BK 0105122	< 0.01	BK 0105222	< 0.01	
		BK 0105322	< 0.01	BK 0105024	< 0.01	BK 0105124	< 0.01	BK 0105224	< 0.01	BK 0105324	< 0.01	BK 0105028	< 0.01	BK 0105128	< 0.01	
		BK 0105228	< 0.01													**Total: 43**
Total Inorganic Nitrogen (as Nitrite and Nitrate) mg/L	< 0.01	BK 0105402	< 0.01	BK 0105003	< 0.01	BK 0105103	< 0.01	BK 0105203	< 0.01	BK 0105007A	< 0.01	BK 0105107	< 0.01	BK 0105007B	< 0.01	
		BK 0105008A	< 0.01	BK 0105008B	< 0.01	BK 0105108A	< 0.01	BK 0105108B	< 0.01	BK 0105009	< 0.01	BK 0105010A	< 0.01	BK 0105110A	< 0.01	
		BK 0105010B	< 0.01	BK 0105110B	< 0.01	BK 0105014A	< 0.01	BK 0105114A	< 0.01	BK 0105014B	< 0.01	BK 0105114B	< 0.01	BK 0105016	< 0.01	
		BK 0105116	< 0.01	BK 0105216	< 0.01	BK 0105017	< 0.01	BK 0105018	< 0.01	BK 0105118	< 0.01	BK 0105218	< 0.01	BK 0105021	< 0.01	
		BK 0105121	< 0.01	BK 0105022	< 0.01	BK 0105122	< 0.01	BK 0105222	< 0.01	BK 0105023	< 0.01	BK 0105123	< 0.01	BK 0105223	<0.01	
		BK 0105024	< 0.01	BK 0105124	< 0.01	BK 0105025	< 0.01	BK 0105125	< 0.01	BK 0105225	< 0.01	BK 0105029	< 0.01	BK 0105129	<0.01	
		BK 0105030	< 0.01													**Total: 43**

SUMMARY OF QUALITY CONTROL DATA - QC SAMPLES RESULTS

Parameter	Control Limit	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	
Suspended Solids mg/L	8.9 - 10.3	QC0105003	9.1	QC0105103	9.5	QC0105203	9.7	QC0105303	9.3	QC0105105	9.3	QC0105005	9.6	QC0105205	9.6	
		QC0105305	9.1	QC0105008	9.3	QC0105108	9.1	QC0105208	9.0	QC0105308	9.4	QC0105010	9.1	QC0105110	9.1	
		QC0105210	9.3	QC0105310	9.4	QC0105014	9.9	QC0105114	9.5	QC0105214	9.2	QC0105314	9.3	QC0105016	9.3	
		QC0106114	9.6	QC0105216	9.4	QC0105316	9.4	QC0105018	9.4	QC0105118	9.1	QC0105218	9.4	QC0105318	9.3	
		QC0105021	9.3	QC0105121	9.4	QC0105221	9.3	QC0105321	9.5	QC0105421	9.6	QC0105022	9.5	QC0105122	9.6	
		QC0105222	9.0	QC0105322	9.1	QC0105024	8.9	QC0105124	9.4	QC0105776	9.7	QC0105424	9.6	QC0105028	9.4	
		QC0105128	9.7	QC0105228	9.9	QC0105328	9.4	QC0105029	9.2	QC0105129	9.5					**Total: 47**
Unionized Ammonia (as Ammonia) mg/L	0.09 - 0.12	QC0105004	0.10	QC0105104	0.10	QC0105204	0.10	QC0105304	0.10	QC0105007	0.10	QC0105107	0.11	QC0105207	0.11	
		QC0105307	0.10	QC0105008	0.10	QC0105108	0.10	QC0105208	0.10	QC0105308	0.10	QC0105010	0.12	QC0105110	0.12	
		QC0105210	0.11	QC0105310	0.11	QC0105014	0.11	QC0105114	0.11	QC0105214	0.11	QC0105314	0.11	QC0105016	0.10	
		QC0105116	0.11	QC0105216	0.11	QC0105316	0.11	QC0105018	0.10	QC0105118	0.10	QC0105218	0.10	QC0105318	0.10	
		QC0105021	0.10	QC0105121	0.10	QC0105221	0.10	QC0105321	0.10	QC0105022	0.10	QC0105122	0.10	QC0105222	0.10	
		QC0105322	0.11	QC0105024	0.10	QC0105124	0.10	QC0105024B	0.11	QC0105324	0.10	QC0105028	0.10	QC0105128	0.10	
		QC0105228	0.10													**Total: 43**
Total Inorganic Nitrogen (as Nitrite and Nitrate) mg/L	0.36 - 0.44	QC0105402	0.39	QC0105003	0.39	QC0105103	0.39	QC0105203	0.39	QC0105007	0.41	QC0105107	0.41	QC0105007	0.43	
		QC0105008A	0.36	QC0105008B	0.40	QC0105108A	0.40	QC0105108B	0.40	QC0105009	0.37	QC0105010A	0.41	QC0105110A	0.41	
		QC0105010B	0.38	QC0105110B	0.42	QC0105014A	0.39	QC0105114	0.38	QC0105014	0.38	QC0105114B	0.39	QC0105016	0.39	
		QC0105116	0.40	QC0105216	0.39	QC0105017	0.40	QC0105018	0.39	QC0105118	0.38	QC0105218	0.38	QC0105021	0.39	
		QC0105121	0.38	QC0105022	0.38	QC0105122	0.38	QC0105222	0.39	QC0105023	0.40	QC0105123	0.38	QC0105223	0.38	
		QC0105024	0.39	QC0105124	0.38	QC0105025	0.40	QC0105125	0.40	QC0105225	0.40	QC0105029	0.37	QC0105129	0.38	
		QC0105030	0.39													**Total: 43**

SUMMARY OF QUALITY CONTROL DATA - MATRIX SPIKE RESULTS

Parameter	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	
Unionized Ammonia (as Ammonia) mg/L	RT 0105004	100.0	RT 0105104	102.0	RT 0105204	90.0	RT 0105304	96.0	RT 0105007	97.0	RT 0105107	95.0	RT 0105207	100.0	
	RT 0105307	108.0	RT 0105008	95.0	RT 0105108	95.0	RT 0105208	94.0	RT 0105308	96.0	RT 0105010	115.0	RT 0105110	108.0	
	RT 0105210	106.0	RT 0105310	107.0	RT 0106273	96.0	RT 0105114	90.0	RT 0105214	101.0	RT 0105314	106.0	RT 0105016	116.0	
	RT 0105116	115.0	RT 0105216	105.0	RT 0105316	113.0	RT 0105018	107.0	RT 0105118	87.0	RT 0105218	101.0	RT 0105318	106.0	
	RT 0105021	98.0	RT 0105121	98.0	RT 0105221	102.0	RT 0105321	102.0	RT 0105022	106.0	RT 0105122	99.0	RT 0105222	98.0	
	RT 0105322	106.0	RT 0105024	93.0	RT 0105124	99.0	RT 0105224	99.0	RT 0105324	99.0	RT 0105028	94.0	RT 0105128	100.0	
	RT 0105228	98.0													**Total: 43**
Total Inorganic Nitrogen (as Nitrite + Nitrate) mg/L	RT 0105402	86.4	RT 0105003	87.5	RT 0105103	95.8	RT 0105203	101.4	RT 0105007	101.8	RT 0105107	98.9	RT 0105007	107.9	
	RT 0105118A	119.4	RT 0105008B	104.2	RT 0105108A	94.1	RT 0105108B	108.7	RT 0105009	95.3	RT 0105010A	101.0	RT 0105110A	103.8	
	RT 0105010B	110.5	RT 0105110B	116.1	RT 0105014A	112.4	RT 0105114	99.6	RT 0105014B	108.2	RT 0105114C	103.3	RT 0105016	100.2	
	RT 0105116	100.0	RT 0105216	91.8	RT 0105017	100.5	RT 0105018	99.7	RT 0105118	98.2	RT 0105218	99.7	RT 0105021	106.1	
	RT 0105121	100.6	RT 0105022	109.0	RT 0105122	97.7	RT 0105222	117.5	RT 0105023	98.5	RT 0105123	101.3	RT 0105223	101.3	
	RT 0105024	90.2	RT 0105124	102.7	RT 0105025	98.1	RT 0105125	116.8	RT 0105225	106.7	RT 0105029	110.1	RT 0105129	101.6	
	RT 0105030	103.1													**Total: 43**

Acceptance Criteria: 75% to 125%

SUMMARY OF QUALITY CONTROL DATA - DUPLICATE RESULTS

Parameter	Control Limit	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	
Suspended Solids mg/L	exceed 20%		9.7		8.2		15.1		8.9		3.5		8.3		8.2	
		WC 0105806	10.7	WC 0105826	8.0	WC 0105846	14.5	WC 0105865	9.9	WC 0105866	3.9	WC 0105934	6.9	WC 0105949	9.4	
			9.4		8.1		12.7		7.5		10.4		10.6		9.3	
		WC 0105970	9.2	WC 0105985	8.9	WC 0106027	12.7	WC 0106042	7.3	WC 0106063	10.8	WC 0106078	11.8	WC 0106154	9.7	
			12.1		9.5		10.0		7.9		7.3		8.2		12.9	
		WC 0106169	12.3	WC 0106910	10.1	WC 0106205	9.6	WC 0106273	8.3	WC 0106288	7.5	WC 01056309	7.8	WC 0106324	13.1	
			9.3		8.4		11.4		10.8		6.8		8.1		10.8	
		WC 0106370	9.1	WC 0106385	8.4	WC 0106406	11.4	WC 0106421	10.4	WC 0106481	7.6	WC 0106496	9.7	WC 0106517	10.2	
			6.9		6.5		11.4		11.7		7.7		14.8		7.9	
		WC 0106532	8.3	WC 0106587	7.5	WC 0106602	11.0	WC 0106623	11.3	WC 0106638	6.5	WC 0106656	15.4	WC 0106686	8.5	
			7.6		8.0		6.5		11.8		9.5		7.4		9.7	
		WC 0106701	8.2	WC 0106722	7.4	WC 0106737	7.3	WC 0106761	13.2	WC 0106798	8.1	WC 0106813	7.2	WC 0106834	9.7	
			7.6		12.0		11.1		11.7		6.4					**Total: 47**
		WC 0106849	7.6	WC 0106924	12.4	WC 0106939	10.1	WC 0106960	10.3	WC 0106975	6.4					
Unionised Ammonia (as Ammonia) mg/L	exceed 20%		0.001		0.003		0.002		0.001		0.002		0.005		0.001	
		WC 0105806	0.001	WC 0105826	0.003	WC 0105846	0.002	WC 0105866	0.001	WC 0105934	0.003	WC 0105949	0.005	WC 0105970	0.001	
			0.003		0.005		0.006		0.002		0.005		0.001		0.007	
		WC 0105985	0.004	WC 0106027	0.005	WC 0106042	0.006	WC 0106063	0.002	WC 0106078	0.006	WC 0106154	0.001	WC 0106169	0.007	
			0.001		0.004		0.002		0.006		0.002		0.005		0.001	
		WC 0106910	0.001	WC 0106205	0.004	WC 0106273	0.002	WC 0106288	0.006	WC 0106309	0.002	WC 0106324	0.005	WC 0106370	0.001	
			0.004		0.001		0.001		<0.001		0.002		0.001		0.003	
		WC 0106385	0.004	WC 0106406	0.001	WC 0106421	0.001	WC 0106481	<0.001	WC 0106496	0.002	WC 0106517	<0.001	WC 0106532	0.003	
			0.003		0.004		0.003		0.008		0.001		0.006		0.001	
		WC 0106587	0.003	WC 0106602	0.004	WC 0106623	0.003	WC 0106638	0.007	WC 0106686	0.001	WC 0106701	0.006	WC 0106722	0.001	
			0.006		0.002		0.004		0.002		0.004		0.001		0.001	
		WC 0106737	0.005	WC 0106798	0.002	WC 0106813	0.004	WC 0106834	0.003	WC 0106849	0.004	WC 0106924	0.001	WC 0106939	0.001	
			0.001													**Total: 43**
		WC 0106960	0.001													
Total Inorganic Nitrogen (as Nitrite + Nitrate) mg/L	exceed 20%		<0.01		0.13		0.14		0.11		0.02		0.17		0.03	
		WC 0105788	<0.01	WC 0105808	0.14	WC 0105828	0.14	WC 0105848	0.11	WC 0105934	0.01	WC 0105949	0.17	WC 0105970	0.03	
			0.11		0.21		0.30		0.09		0.24		0.09		0.26	
		WC 0105985	0.10	WC 0106027	0.22	WC 0106042	0.30	WC 0106063	0.11	WC 0106078	0.25	WC 0106154	0.08	WC 0106169	0.26	
			0.13		0.34		0.10		0.22		0.08		0.29		0.03	
		WC 0106190	0.13	WC 0106205	0.36	WC 0106273	0.09	WC 0106288	0.22	WC 0106309	0.08	WC 0106324	0.30	WC 0106370	0.02	
			0.29		<0.01		0.23		<0.01		0.22		0.10		0.16	
		WC 0106385	0.29	WC 0106406	<0.01	WC 0106421	0.23	WC 0106481	<0.01	WC 0106496	0.22	WC 0106973	0.10	WC 0106532	0.17	
			0.16		0.29		0.33		0.01		0.30		0.57		0.38	
		WC 0106587	0.16	WC 0106602	0.30	WC 0106638	0.34	WC 0106623	0.01	WC 0106686	0.29	WC 0106701	0.59	WC 0106722	0.38	
			0.36		0.21		0.22		0.12		0.29		0.13		0.26	
		WC 0106737	0.36	WC 0106798	0.20	WC 0106813	0.22	WC 0106834	0.12	WC 0106849	0.29	WC 0106913	0.13	WC 0106933	0.27	
			0.18													**Total: 43**
		WC 0106953	0.18													

SUMMARY OF QUALITY CONTROL DATA - BLIND DUPLICATE RESULTS

Parameter	Control Limit	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	
Suspended Solids mg/L	exceed 20%		11.9		15.5		10.1		14.1		8.9		9.9		10.5		11.3		9.5		10.7		7.5		
		WC 0105860	15.7	WC 0105861	12.2	WC 0105863	12.5	WC 0105864	16.9	WC 0105865	8.9	WC 0105994	10.9	WC 0105995	10.1	WC 0105996	11.6	WC 0105997	11.4	WC 0105998	11.2	WC 0105999	7.4		
			12.5		6.7		10.8		12.4		11.4		12.4		11.8		10.6		12.8		11.4		10.6		
		WC 0106000	12.1	WC 0106001	6.3	WC 0106087	11.9	WC 0106088	12.7	WC 0106089	12.5	WC 0106090	12.9	WC 0106091	11.0	WC 0106092	9.8	WC 0106093	12.2	WC 0106214	10.9	WC 0106215	11.1		
			15.4		7.0		10.2		9.6		10.8		8.5		7.1		10.3		7.7		10.7		8.9		
		WC 0106216	14.1	WC 0106217	6.5	WC 0106218	9.5	WC 0106219	8.9	WC 0106220	10.0	WC 0106333	8.3	WC 0106334	7.9	WC 0106335	13.1	WC 0106337	10.4	WC 0106338	8.6	WC 0106339	7.9		
			9.6		10.0		8.2		5.8		12.8		10.8		15.4		8.3		16.1		7.3		9.8		
		WC 0106430	11.1	WC 0106432	9.4	WC 0106433	8.6	WC 0106434	6.6	WC 0106435	14.0	WC 0106436	9.6	WC 0106541	14.4	WC 0106542	9.2	WC 0106543	17.7	WC 0106544	5.7	WC 0106545	10.8		
			9.9		7.5		10.9		7.1		10.9		8.5		11.3		10.1		9.1		15.9		10.3		
		WC 0106546	8.8	WC 0106547	7.3	WC 0106647	9.7	WC 0106648	8.1	WC 0106649	11.0	WC 0106650	8.6	WC 0106651	11.7	WC 0106652	9.5	WC 0106653	8.5	WC 0106746	20.1	WC 0106747	9.1		
			10.1		15.1		8.3		7.9		8.7		9.4		9.2		9.4		7.6		9.2		11.4		
		WC 0106748	9.2	WC 0106749	16.0	WC 0106750	8.0	WC 0106751	8.0	WC 0106752	9.3	WC 0106859	10.3	WC 0106860	7.6	WC 0106861	8.6	WC 0106862	7.3	WC 0106863	8.9	WC 0106864	11.0		
			8.6		10.6		10.0		10.8		9.2		9.6		10.2		9.2		10.0		7.4		7.6		
		WC 0106865	9.4	WC 0106984	10.2	WC 0106985	10.2	WC 0106986	10.7	WC 0106987	9.5	WC 0106988	9.3	WC 0106989	11.1	WC 0106990	8.0	WC 0106991	8.6	WC 0107091	7.4	WC 0107092	7.4		
			7.4		8.6		9.6		13.0		12.8		7.2		7.2		10.0		8.4		8.6		18.8		
		WC 0107093	7.4	WC 0107094	8.9	WC 0107095	9.2	WC 0107096	13.8	WC 0107097	13.0	WC 0107098	8.4	WC 0107212	6.6	WC 0107213	9.8	WC 0107214	7.6	WC 0107215	8.4	WC 0107216	18.3		
			6.8		8.2		10.0		10.4		14.2		19.9												**Total: 94**
		WC 0107217	7.7	WC 0107218	8.2	WC 0107219	9.6	WC 0107067	9.6	WC 0107082	13.2	WC 0107110	20.5												
Unionised Ammonia mg/L	exceed 20%		0.001		<0.001		0.001		0.001		0.003		0.001		0.005		0.001		0.005		0.002		0.005		
		WC 0105859	0.001	WC 0105860	<0.001	WC 0105861	0.001	WC 0105862	0.001	WC 0105863	0.003	WC 0105864	0.001	WC 0105865	0.005	WC 0105866	0.001	WC 0105994	0.005	WC 0105995	0.002	WC 0105996	0.004		
			0.002		0.005		0.001		0.006		<0.001		0.003		0.005		0.006		0.003		0.002		0.005		
		WC 0105997	0.002	WC 0105998	0.005	WC 0105999	0.001	WC 0106000	0.006	WC 0106001	<0.001	WC 0106087	0.003	WC 0106088	0.005	WC 0106089	0.006	WC 0106090	0.004	WC 0106092	0.002	WC 0106093	0.004		
			0.003		0.002		0.001		0.006		0.002		0.002		0.006		0.001		0.003		0.005		0.001		
		WC 0106214	0.003	WC 0106216	0.002	WC 0106219	0.001	WC 0106220	0.004	WC 0106333	0.002	WC 0106334	0.002	WC0106335	0.006	WC 0106336	0.001	WC 0106338	0.003	WC 0106339	0.004	WC 0106431	0.001		
			0.003		0.001		0.001		0.001		0.002		0.001		0.003		0.001		<0.001		0.002		0.001		
		WC 0106432	0.002	WC 0106433	0.001	WC 0106434	0.001	WC 0106435	0.001	WC 0106436	0.002	WC 0106542	0.001	WC 0106543	0.003	WC 0106544	0.001	WC 0106545	<0.001	WC 0106546	0.002	WC 0106547	<0.001		
			0.002		0.005		0.003		0.002		0.007		0.005		0.002		0.005		0.004		0.001		0.005		
		WC 0106648	0.002	WC 0106649	0.004	WC 0106650	0.003	WC 0106651	0.002	WC 0106652	0.007	WC 0106653	0.005	WC 0106747	0.002	WC 0106748	0.005	WC 0106749	0.004	WC 0106750	0.001	WC 0105751	0.005		
			0.004		0.003		0.001		0.003		0.005		0.002		0.005		0.001		0.001		0.005		0.001		
		WC 0106858	0.004	WC 0106859	0.002	WC 0106860	0.001	WC 0106861	0.004	WC 0106862	0.005	WC 0106863	0.002	WC 0106864	0.005	WC 0106984	0.001	WC 0106985	0.001	WC 0106986	0.005	WC 0106987	0.001		
			0.001		0.001		0.001		0.003		0.001		<0.001		0.004		0.003		<0.001		0.003		<0.001		
		WC 0106989	0.001	WC 0106990	0.001	WC 0106991	0.001	WC 0107091	0.003	WC 0107092	0.001	WC 0107093	<0.001	WC 0107094	0.004	WC 0107095	0.003	WC 0107096	0.001	WC 0107097	0.003	WC 0107098	<0.001		
			0.003		0.001		0.004		0.003		0.004		0.001		0.005		0.001		0.001						**Total: 86**
		WC 0107212	0.003	WC 0107213	0.001	WC 0107214	0.004	WC 0107215	0.003	WC 0107216	0.004	WC 0107217	0.001	WC 0107218	0.005	WC 0107067	0.001	WC 0107082	0.001						
Total Inorganic Nitrogen (as Nitrite + Nitrate) mg/L	exceed 20%		0.21		0.01		0.03		0.22		0.30		0.04		0.35		0.02		0.15		0.05		0.25		
		WC 0105859	0.20	WC 0105860	<0.01	WC 0105861	0.03	WC 0105862	0.21	WC 0105863	0.30	WC 0105864	0.04	WC 0105865	0.36	WC 0105866	0.02	WC 0105994	0.13	WC 0105995	0.03	WC 0105996	0.22		
			0.10		0.21		0.06		0.21		0.02		0.15		0.26		0.37		0.15		0.08		0.22		
		WC 0105997	0.11	WC 0105998	0.22	WC 0105999	0.04	WC 0106000	0.2	WC 0106001	0.02	WC 0106087	0.16	WC 0106088	0.28	WC 0106089	0.46	WC 0106090	0.16	WC 0106092	0.08	WC 0106093	0.25		
			0.27		0.20		0.07		0.44		0.15		0.12		0.24		<0.01		0.14		0.22		0.05		
		WC 0106214	0.18	WC 0106217	0.15	WC 0106219	0.08	WC 0106220	0.44	WC 0106333	0.13	WC 0106334	0.09	WC 0106335	0.19	WC 0106336	<0.01	WC 0106338	0.16	WC 0106339	0.22	WC 0106430	0.04		
			0.07		0.18		0.01		0.01		0.01		0.17		0.02		0.14		0.07		0.01		0.03		
		WC 0106431	0.07	WC 0106432	0.17	WC 0106433	0.01	WC 0106434	0.01	WC 0106435	0.01	WC 0106436	0.18	WC 0106542	0.01	WC 0106543	0.14	WC 0106544	0.08	WC 0106545	0.01	WC 0106546	0.04		
			0.02		0.07		0.35		0.17		0.04		0.24		0.20		0.33		0.43		0.27		0.37		
		WC 0106547	0.02	WC 0106648	0.07	WC 0106649	0.35	WC 0106650	0.18	WC 0106651	0.04	WC 0106652	0.24	WC 0106653	0.21	WC 0106747	0.34	WC 0106748	0.43	WC 0106749	0.28	WC 0106750	0.39		
			0.27		0.28		0.20		0.19		0.26		0.28		0.16		0.32		0.23		0.14		0.10		
		WC 0106751	0.27	WC 0106858	0.27	WC 0106859	0.20	WC 0106860	0.19	WC 0106861	0.27	WC 0106862	0.28	WC 0106863	0.17	WC 0106864	0.32	WC 0106865	0.24	WC 0106984	0.13	WC 0106985	0.08		
			0.34		0.15		0.19		0.09		0.12		0.12		0.38		0.29		0.28		0.42		0.39		
		WC 0106986	0.27	WC 0106987	0.13	WC 0106988	0.18	WC 0106989	0.08	WC 0106990	0.10	WC 0106991	0.11	WC 0107091	0.39	WC 0107092	0.30	WC 0107093	0.28	WC 0107094	0.42	WC 0107095	0.40		
			0.16		0.45		0.04		0.20		0.07		0.36		0.23		0.14		0.10						**Total: 86**
		WC 0107096	0.16	WC 0107097	0.43	WC 0107098	0.04	WC 0107212	0.20	WC 0107213	0.05	WC 0107214	0.36	WC 0107215	0.22	WC 0107216	0.15	WC 0107217	0.11						