

APPENDIX B

DATA QUALITY AND STATUS

APPENDIX B DATA QUALITY AND STATUS

All analytical data were subjected to a quality assurance and quality control (QA/QC) review conducted by EcoChem, Incorporated located in Seattle. Validation reports are included in Appendix A. Field replicate results for chemical and conventional data are provided in the table at the end of this appendix. The following discussion summarizes the information in the validation reports.

B.1 GRAIN SIZE AND OTHER PARAMETER DATA

- Field triplicate analysis for grain size was performed on two sample groups. Precision was acceptable for one group. Results for the other group showed some variability in the mid-range between 15.6 and 125 microns, but was acceptable above and below this range.
- Results of sulfide analysis for 13 samples were assigned a "J" qualifier due to exceedence of holding time criteria, and 13 other sulfide results were assigned a "J" qualifier due to a high relative percent difference (RPD) value of laboratory triplicate analyses. Field replicates for sulfide had percent relative standard deviation (%RSD) out of control limits, possibly due to sample heterogeneity and holding time exceedences. Field replicate analyses for all other analytes were within control limits, and no qualifiers were necessary.
- For one set of field triplicate samples, the analysis of ammonia for Sample DAC-HY-19 was 11.4 mg/kg. The results in Samples DAC-HY-31 and DAC-HY-32 (two field replicates of DAC-HY-19) were 25.3 mg/kg and 28.9 mg/kg, respectively. Sample DAC-HY-19 was reanalyzed for ammonia, past holding time, and the result was 28.0 mg/kg.

Overall, precision and accuracy were acceptable. Qualifiers were assigned for sulfide results. The data, as qualified, were deemed acceptable by EcoChem.

B.2 CHEMICAL DATA

B.2.1 Total Acid Digestion Metals

Analytical data for 36 sediment samples and 2 field blank (filter) samples were reviewed using NOAA (1995) QC criteria. The laboratory followed the NOAA (1995) requirements for QC sample frequency of analysis, acceptance criteria, and corrective action processes. Data qualifiers were assigned as follows:

- Mercury results for all samples were qualified as estimated (UJ), due to holding time exceedences and presence in method blank samples, at the reporting limit.
- Cadmium results in nine samples were qualified as not detected (U) due to their presence in method blank samples.
- All arsenic results were qualified as estimated (J) due to standard reference material (SRM) recoveries that were less than the certified lower control limit.

For the analysis of antimony, accuracy could not be determined as all SRM certified values were less than the laboratory method detection limit (MDL), or the measured values were less than three times the MDL. Target MDLs were not met for antimony, arsenic, chromium, lead, mercury, nickel, and zinc. No qualification of data was necessary, and data usability was determined not to be affected.

B.2.2 Organotin Compounds

The laboratory followed the quality assurance plan requirements (NOAA 1995) for QC samples frequency of analysis, acceptance criteria, and corrective action processes. Precision of organotin compounds results, as measured by the RPD between duplicate sample pairs, was acceptable. Accuracy, as measured by the percent recovery of the SRMs, was acceptable for all organotin compounds species. NOAA (1995) QA/QC requirements were met, and all organotin compounds data as reported are acceptable for use.

B.2.3 Aromatic Hydrocarbons

General analytical methodology as outlined by NOAA (1995) and laboratory standard operating procedure (SOP) were followed. Qualified data and reasons for assigning qualifiers are as follows:

- The method blank for one laboratory batch contained low levels of naphthalene, fluoranthene, and pyrene. Only the naphthalene result for the filter blank, DAC-HY-05CCB, was qualified as not detected (U) at the reported concentration.
- Bottle blanks DAC-HY-11 and DAC-HY-22 and filter blank DAC-HY-05CCB contained low levels of naphthalene. The naphthalene result for DAC-HY-05CCB was qualified as described above (U). All sample results were significantly greater than 10 times the bottle blank concentrations, so no qualifiers were assigned on this basis.
- Percent RSDs calculated for laboratory replicates exceeded the criterion of 50 percent for 2-methylnaphthalene, fluorene, phenanthrene, anthracene, fluoranthene, and pyrene in Sample DAC-HY-03. Percent RSDs exceeded 50 percent for fluorene and anthracene in Sample DAC-HY-16. Qualification of data due to laboratory replicate precision outliers will apply only to the samples used for replicate analysis. Positive results for the compounds with high percent relative standard deviation (%RSD) values are estimated (J) in the replicate samples.
- Because of matrix spike/matrix spike duplicate (MS/MSD) performance, all positive results for phenanthrene and fluoranthene in one laboratory batch were qualified as estimated (J).
- Method detection limits listed by the laboratory for four analytes (2-methylnaphthalene, acenaphthalene, fluorene, and dibenz(a,h)anthracene) were greater than the MDL specified in Table 6.1 of the quality assurance plan (NOAA, 1995). With the exception of the 2-methylnaphthalene result for Sample DAC-HY-02A, all reported results for these compounds were significantly greater than the calculated MDL, so no action was required. For analytes that were not detected, the laboratory calculated a sample-specific reporting limit based upon the response of the lowest standard, sample weight, and percent moisture. However, the only analyses that do not have positive results for all compounds are the bottle and filter blanks and the reference samples. All field sample results are significantly greater than the reporting limit and calculated MDL, so sample results were judged not to be affected.

Accuracy, as demonstrated by the recovery values of most of the surrogate, matrix spike, and SRM compounds, was acceptable. Precision, as demonstrated by the RSD of the replicate concentrations of the SRM and by the RPD of the MS/MSD pairs, was acceptable. The data, as qualified, are acceptable for use.

B.2.4 Phthalates, Phenols, Chlorinated Benzenes, and Hexachlorobutadiene

The laboratory followed NOAA (1995) requirements for QC sample frequency of analysis, acceptance criteria, and corrective action processes. Accuracy was acceptable, as demonstrated by the percent recovery values of most of the surrogate and matrix spiking compounds. Precision, as demonstrated by the RPD of the MS/MSD pairs, was acceptable. Data were qualified because of calibration outliers, method blank contamination, a low surrogate compound percent recovery value, poor laboratory replicate precision, and MS/MSD percent recovery outliers. The data, as qualified, are acceptable for use. Qualifiers were assigned as follows:

- Positive results for di-n-octyl-phthalate in one laboratory batch were qualified as estimated (J) because the initial calibration correlation coefficient of 0.9824 was less than the specified (NOAA, 1995) value of 0.990.
- Seven of 16 target compounds were detected in all of method blanks. Action levels were established at 10 times the concentration detected in method blanks, and all associated sample results less than the action levels were qualified as not detected (U) at the reported concentrations.
- Phenol was detected in all method blanks at concentrations greater than 3 times the MDL. Phenol was also detected in all field samples, including bottle blank and filter blank samples. An action level for phenol was established using a criterion similar to that used to assess the SRM results. All associated phenol results less than the action level (18.3 ng/g) were qualified as not detected (U) at the reported concentrations.
- Surrogate spike recovery for dibenzyl phthalate was less than the lower control limit at 35 percent in Sample DAC-HY-24. Dibenzyl phthalate was used to calculate the concentrations of all of the phthalate target compounds. The phthalate target compounds in Sample DAC-HY-24 are qualified as estimated (J for positive results and UJ for reporting limits of nondetected compounds) due to low recovery.

- Results of laboratory replicate analysis for di-n-octyl phthalate (DAC-HY-16) and diethyl phthalate (DAC-HY-28) had percent RSD exceeding the specified (NOAA, 1995) goal of 50 percent. Positive results for the compounds with high percent RSD values are estimated (J) in the replicate samples.
- Because of MS/MSD performance, all positive results for bis(2-ethylhexyl)phthalate not previously qualified due to calibration outliers are estimated (J).
- The laboratory method for reporting detection limits does not agree with Table 6.1 of the quality assurance plan (NOAA, 1995). However, most reported positive results are greater than the reporting limit and calculated MDL, or are qualified as not detected (U) due to blank contamination. Therefore, no qualifier was assigned on the basis of the laboratory's method of reporting detection limits.

B.2.5 Pesticides, PCBs, and Hexachlorobenzene

The laboratory followed requirements (NOAA, 1995) for QC sample frequency of analysis, acceptance criteria, and corrective action processes. A summary of qualified data and reasons is as follows:

- Percent difference values for continuing calibration were less than the specified 10 percent, so no data were qualified on the basis of calibration parameter exceedences.
- Hexachlorobenzene was detected at a low concentration in the method blank extracted with one laboratory batch. Action levels were established at 10 times the concentration detected in the method blank. All associated hexachlorobenzene sample results were greater than the action levels, with the exception of Sample DAC-HY-02, which was qualified as not detected (U) at the reported concentration.
- Chlorobiphenyl congeners were detected in all of the method blanks at low levels, and 4 of the 17 congeners were detected in each method blank. All associated sample results less than the action level of 10 times the concentration detected in the method blank have been qualified as not detected (U) at the reported concentrations.
- Surrogate spike recoveries were within control limits specified by NOAA (1995), with the exception of Sample DAC-HY-34. All positive results in this sample are qualified as estimated (J), and the detection limits for non-detected compounds are qualified as estimated (UJ).

- Because of laboratory replicate analysis performance, positive results for alpha- and gamma-chlordane and chlorobiphenyl congener 153 (Sample DAC-HY-16) and for p,p'-DDT and chlorobiphenyl congener 195 (Sample DAC-HY-28) are estimated (J) in the replicate samples.
- No data were qualified on the basis of differences between the NOAA (1995) specified method for reporting MDLs and the laboratory's use of a method for calculating a sample-specific reporting limit rather than reporting MDLs.
- General analytical methodology as outlined in the quality assurance plan (NOAA, 1995) and laboratory SOP were followed. Accuracy, as demonstrated by the recovery values of most of the surrogate and matrix spike compounds, was acceptable. Precision, as demonstrated by the RPD of the MS/MSD pairs, was acceptable. Data qualifiers were issued due to method blank contamination, a low surrogate recovery, and poor laboratory replicate precision. The data, as qualified, are acceptable for use.

B.2.6 Volatile Organic Compounds

The laboratory followed QC analytical criteria specified by EVS (1994b). Two sample data groups were analyzed.

- All QC criteria were met for one data group, and no qualifiers were assigned.
- For the second data group, all samples were analyzed within the specified holding period of 14 days, with the exception of the rinsate blank DAC-HY-19VB (17 days) and the trip blank (22 days). No target compounds were detected in either sample. Due to the possible low bias, the detection limits were qualified as estimated (UJ) for all target compounds in the second data group.

For the volatile organic compound analysis, precision is acceptable, as demonstrated by the RPD values of the MS/MSD analyses. Accuracy is acceptable, as demonstrated by MS/MSD and laboratory control sample recovery values. All data, as qualified, are acceptable for use.

B.3 TOXICITY TEST DATA

Three standardized sediment toxicity tests were conducted: a 10-day amphipod test using *Rhepoxynius abronius*, a 20-day juvenile polychaete growth test using *Neanthes arenaceodentata*, and a 48-hour echinoderm larval test using *Dendraster excentricus*. Five

replicates were used for each sediment bioassay type. Sediment collected from West Beach, Whidbey Island was used as a negative control for all three bioassays.

Based on an independent data review, the data for amphipod, juvenile polychaete, and echinoderm larvae were deemed acceptable for use with the following qualifications for each test.

B.3.1 Amphipod Mortality Test

The starting temperature in the positive control in Setup #1 was measured at 17°C. The elevated temperature does not appear to have affected the results. Crabs and several small starfish were observed in several of the test sediment replicates. Several replicates were missing amphipods at the termination of the test. Comparisons between mean amphipod survival from these stations and mean control survival were not summarized with the data; therefore no determinations were made to evaluate if the presence of crabs or starfish had a significant effect on the bioassay results for these particular sediments.

B.3.2 Juvenile Polychaete Growth Test

Temperature measurements exceeded recommended test conditions (22°C) during the first two days of Setup #1, and in the positive control in Setups #1 and #2. The salinity of some samples fell outside of the lower and upper values (measurements ranged from 24 to 33 ppt) specified in the protocols, but do not appear to have affected the test results. Several of the dissolved oxygen (DO) measurements made during the test did not meet acceptance criteria. Percent survival does not appear to have been affected by the occasional drop in DO in replicate jars.

B.3.3 Echinoderm Larval Mortality and Abnormality Test

Test sediments were analyzed within the recommended holding times, except for samples DAC-HY-13T, DAC-HY-14T, DAC-HY-15T, DAC-HY-16T, DAC-HY-17T, DAC-HY-18T, DAC-HY-19T, and DAC-HY-25T, which were analyzed 1 or 2 days outside the recommended holding time of 14 days. Results for these samples are acceptable with proper holding conditions for sediments.

Inoculation density in Setup #1 was 15,400 embryos/L and in Setup #2 was 18,500 embryos/L. The SOP stated that recommended density is 20,000 to 40,000 embryos/L. Several samples showed survival recovery greater than controls, which resulted in negative mortality data. This may have been caused by initial inoculation and enumeration procedures.

Temperatures were measured at 16.5°C for the majority of the samples in Setup #1 (recommended range 15.0°C to 16°C), and temperature was measured at 17°C in the positive control for Setup #2. No data were available to determine if the elevated temperatures affected the bioassay results.

A few samples exceeded the upper salinity value (samples ranged from 29 to 32 ppt). The higher salinities should not have affected the test results.

One DO measurement was recorded below 60 percent saturation at 4.6 mg/L (sample range was 7.0 to 9.0 mg/L) in the water quality jar for station DAC-HY-23T. Since DO levels were measured at acceptable levels in each replicate at the termination of the test, this probably did not significantly affect the test results.

Water quality measurements recorded for each sample replicate upon termination of each bioassay generally indicated that acceptable water quality conditions existed for all tests.

B.4 BENTHIC ORGANISM IDENTIFICATION AND ABUNDANCE DATA

Benthic infauna samples were collected using a 0.06-m² van Veen grab sampler and sieved through a 1.0-mm screen. Materials retained on the screen were transferred to sample containers and fixed with a 10 percent solution of buffered formalin. In the laboratory samples were preserved in a 70 percent ethanol solution for sorting. Species were then identified and enumerated to the lowest practical taxonomic level.

All benthic data were deemed acceptable; no significant problems were encountered during the taxonomic review. The samples submitted for independent review (identification and enumeration) met the variability criterion of 5 percent or less.

Measurement of Conventional in Surface Sediments of the Hylebos Waterway for Field Replicates (mg/kg DW)

Station	Sample	Clay, percent		Gravel, percent		Sand, percent		Silt, percent		Total solids		Total volatile solids		Ammonia-nitrogen		Sulfides		Total organic carbon	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	18.0		1.00		45.0		36.0		57.2		24400		15.6		719		1.93	
DAC-HY-06	33C	21.0		3.00		43.0		33.0		58.1		24000		13.0		310		1.83	
DAC-HY-06	34C	17.0		1.00		46.0		36.0		52.2		26300		16.5		224		1.98	
DAC-HY-19	19C	27.0		0.00		24.0		49.0		45.9		40100		11.4		941	J	3.85	
DAC-HY-19	31C	28.0		0.00		21.0		51.0		44.5		38600		25.3		996	J	3.54	
DAC-HY-19	32C	26.0		0.00		25.0		49.0		44.2		37000		28.9		849	J	3.08	

Concentrations of Metals in Surface Sediments of Hylebos Waterway for Field Replicates using Strong Acid (mg/kg)

Station	Sample	Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Silver	Zinc
		Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
		Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.
DAC-HY-06	06C	0.995	20.7	0.331	35.9	80.2	68.6	0.365	22.7	0.356	130
DAC-HY-06	33C	0.995	17.0	0.310	24.9	85.9	74.6	2.59	22.9	0.376	127
DAC-HY-06	34C	0.995	22.1	0.523	30.8	77.0	94.2	2.41	25.6	0.356	178
DAC-HY-19	19C	1.45	42.0	0.676	32.6	120	74.1	0.595	28.4	0.438	169
DAC-HY-19	31C	1.55	37.7	0.679	37.7	132	79.5	0.709	30.3	0.474	205
DAC-HY-19	32C	5.37	36.3	0.624	36.3	131	101	0.628	29.5	0.450	340

Concentration of Metals in Surface Sediments of the Hylebos Waterway for Field Replicates using Total Acid Digestion (mg/kg DW)

Station	Sample	Antimony		Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	3.05		15.0		0.405	U	31.0		79.1		73.9		0.281	UJ	35.0		0.264		142	
DAC-HY-06	33C	20.1		28.2		0.378		28.5		90.7		66.1		1.77		32.9		0.312		163	
DAC-HY-06	34C	6.95		14.8		0.405		43.3		81.7		85.9		1.66	UJ	38.7		0.222		160	
DAC-HY-19	19C	14.1		40.1		0.529		33.6		135		95.5		2.70	UJ	36.7		0.340		217	
DAC-HY-19	31C	10.3		18.3		0.655		33.9		133		116		0.450	UJ	35.1		0.289		203	
DAC-HY-19	32C	19.7		95.1		0.580		33.6		127		124		0.401	UJ	35.9		0.304		290	

Concentration of Organotin Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW)

Station	Sample	Monobutyltin		Dibutyltin		Tributyltin		Tetrabutyltin	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	7.31	U	7.31	U	35.1	U	7.31	U
DAC-HY-06	33C	8.47	U	19.5		78.3		8.47	U
DAC-HY-06	34C	7.70	U	22.7		44.2		7.70	U
DAC-HY-19	19C	9.78	U	55.7		218		9.77	U
DAC-HY-19	31C	7.03	U	30.1		147		7.03	U
DAC-HY-19	32C	9.40	U	49.0		252		9.40	U

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW)

Station	Sample	2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Fluorene		Total low molecular weight PAHs	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	130		110		19.0		270		150		1470	
DAC-HY-06	33C	95.0		74.0		25.0		260		110		1190	
DAC-HY-06	34C	260		340		34.0		720		440		3760	
DAC-HY-19	19C	83.0		140		26.0		450		150		2030	
DAC-HY-19	31C	65.0		40.0		21.0		240		67.0		968	
DAC-HY-19	32C	78.0		60.0		25.0		350		90.0		1420	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	Naphthalene		Phenanthrene		Dibenz(a,h)anthracene		Benz(a)anthracene		Benzo(a)pyrene		Benzo(g,h,i)perylene		Chrysene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	260		660		61.0		420		410		250		610	
DAC-HY-06	33C	230		490		70.0		420		430		260		630	
DAC-HY-06	34C	730		1500		96.0		930		600		360		1200	
DAC-HY-19	19C	160		1100		200		850		1100		940		2200	
DAC-HY-19	31C	140		460		180		750		960		880		2000	
DAC-HY-19	32C	330		570		220		970		1200		1100		2700	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	Fluoranthene		Total high molecular weight PAHs		Indeno(1,2,3-c,d)pyrene		Pyrene		Total benzofluoranthenes		2-Methylphenol	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	970		5200		250		1300		930		6.30	U
DAC-HY-06	33C	1100		5540		280		1400		950		4.30	U
DAC-HY-06	34C	2700		10300		360		2700		1400		7.00	U
DAC-HY-19	19C	2200		15500		800		3800		3400		7.50	U
DAC-HY-19	31C	1700		13300		710		2700		3400		8.00	U
DAC-HY-19	32C	4500		20800		900		5100		4100		6.70	U

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	2,4-Dimethylphenol		4-Methylphenol		Pentachlorophenol		Phenol		1,2-Dichlorobenzene		1,2,4-Trichlorobenzene		1,3-Dichlorobenzene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	6.10		20.0		35.0	J	40.0		10.0		97.0		11.0	
DAC-HY-06	33C	8.20		25.0		33.0		33.0		5.20		46.0		5.60	
DAC-HY-06	34C	15.0		37.0		29.0		37.0		12.0		110		19.0	
DAC-HY-19	19C	9.70		42.0		72.0	J	44.0		6.70		40.0		7.00	
DAC-HY-19	31C	9.50		42.0		56.0		47.0		7.20		39.0		6.30	
DAC-HY-19	32C	8.30		43.0		83.0		46.0		6.40		42.0		7.40	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	1,4-Dichlorobenzene		Hexachlorobutadiene		Di-n-octyl phthalate		Bis(2-ethylhexyl)phthalate		Butylbenzyl phthalate		Diethyl phthalate		Dimethyl phthalate	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	81.0		150		10.0		140	J	9.70	J	2.50	UJ	4.80	J
DAC-HY-06	33C	51.0		71.0		9.40		210	J	8.20	U	2.70	UJ	4.70	
DAC-HY-06	34C	170		150		3.90		160	J	8.80	U	2.10	UJ	3.40	UJ
DAC-HY-19	19C	22.0		27.0		7.10		500	J	53.0	J	3.00	UJ	30.0	J
DAC-HY-19	31C	25.0		33.0		6.20		580	J	120		3.90	UJ	39.0	J
DAC-HY-19	32C	21.0		53.0		15.0		520	J	59.0		3.20	UJ	25.0	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	Di-n-butyl phthalate		Gamma-HCH (Lindane)		Hexachlorobenzene		Aldrin		Alpha-chlordane		Gamma-chlordane		Chlordane	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	6.20	UJ	2.00		63.0		0.062	U	3.00		4.20		7.20	
DAC-HY-06	33C	8.20	UJ	2.90		44.0		0.042	U	2.50		4.50		7.00	
DAC-HY-06	34C	7.50	UJ	5.10		99.0		3.60		4.20		0.058	U	4.20	
DAC-HY-19	19C	15.0	UJ	1.40		21.0		0.061	U	2.30		0.060	U	2.30	
DAC-HY-19	31C	27.0	UJ	1.20		22.0		0.068	U	1.30		0.066	U	1.30	
DAC-HY-19	32C	23.0	UJ	1.90		28.0		0.058	U	3.90		0.063	U	3.90	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	Dieldrin		Heptachlor		Chlorobiphenyl 10/209		Chlorobiphenyl 3/18		Chlorobiphenyl 3/28		Chlorobiphenyl 4/44		Chlorobiphenyl 4/52	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	1.40		1.90		57.0		5.80		6.20		6.40		7.00	
DAC-HY-06	33C	1.70		3.10		38.0		6.70		5.70		6.20	U	6.20	
DAC-HY-06	34C	2.70		6.90		99.0		0.200	U	7.40		16.0		13.0	
DAC-HY-19	19C	0.062	U	0.900		19.0		14.0		9.50		12.0		20.0	
DAC-HY-19	31C	1.40		1.70		20.0		7.40		6.20		11.0		25.0	
DAC-HY-19	32C	0.640		0.600		18.0		14.0		6.00		7.20	U	14.0	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	Chlorobiphenyl 4/66	Chlorobiphenyl 5/101	Chlorobiphenyl 5/105	Chlorobiphenyl 5/118	Chlorobiphenyl 6/128	Chlorobiphenyl 6/138	Chlorobiphenyl 6/153
		Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
		Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.
DAC-HY-06	06C	12.0	6.20	7.40	41.0	0.048	11.0	8.70
DAC-HY-06	33C	5.00	6.80	6.70	38.0	2.40	18.0	9.90
DAC-HY-06	34C	11.0	9.40	0.054	19.0	3.10	13.0	9.10
DAC-HY-19	19C	6.00	40.0	16.0	40.0	11.0	48.0	48.0
DAC-HY-19	31C	0.090	40.0	0.062	49.0	9.60	44.0	48.0
DAC-HY-19	32C	5.00	33.0	14.0	51.0	8.50	38.0	46.0

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	Chlorobiphenyl 7/170		Chlorobiphenyl 7/180		Chlorobiphenyl 7/187		Chlorobiphenyl 8/195		Chlorobiphenyl 9/206		PCBs, total		p,p-DDD	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	0.940	U	31.0		5.80		3.40		44.0		510		7.40	
DAC-HY-06	33C	1.10		25.0		5.40		2.80		27.0		420		6.20	
DAC-HY-06	34C	2.00		16.0		7.90		3.90		60.0		580		8.30	
DAC-HY-19	19C	3.20		29.0		7.40		1.70		12.0		670		14.0	
DAC-HY-19	31C	2.20		23.0		7.50		1.70		11.0		610		12.0	
DAC-HY-19	32C	2.90		23.0		17.0		4.30		21.0		650		15.0	

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW) (Continued)

Station	Sample	p,p'-DDE		p,p'-DDT	
		Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	0.840		2.70	
DAC-HY-06	33C	0.640		3.10	
DAC-HY-06	34C	0.790		0.100	U
DAC-HY-19	19C	6.30		5.40	
DAC-HY-19	31C	3.90		3.00	
DAC-HY-19	32C	3.90		7.60	

Concentrations of Volatile Organic Compounds in Surface Sediments of the Hylebos Waterway for Field Replicates (ug/kg DW)

Station	Sample	Trichloroethene		Tetrachloroethene		Ethylbenzene		Xylenes		1,2-Dichlorobenzene		1,2,4-Trichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	08C	1.40	U	1.40	U	1.40	U	2.80	U	1.40	U	7.00	U	1.40	U	1.40	U
DAC-HY-06	33C	3.20	U	1.70	U	1.70	U	3.40	U	1.70	U	8.40	U	1.70	U	1.70	U
DAC-HY-06	34C	1.50	U	1.50	U	1.50	U	3.00	U	1.50	U	7.50	U	1.50	U	11.0	U
DAC-HY-19	19C	1.00	U	1.00	U	1.00	U	2.00	U	1.00	U	5.00	U	1.00	U	1.00	U
DAC-HY-19	31C	2.00	U	2.00	U	2.00	U	4.00	U	2.00	U	10.0	U	2.00	U	2.00	U
DAC-HY-19	32C	1.90	U	1.90	U	1.90	U	3.80	U	1.90	U	9.60	U	1.90	U	1.90	U

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized)

Station	Sample	2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Fluorene		Total low molecular weight PAHs		Naphthalene		Phenanthrene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	6740		5700		984		14000		7770		76100		13500		34200	
DAC-HY-06	33C	5190		4040		1370		14200		6010		65000		12600		26800	
DAC-HY-06	34C	13100		17200		1720		36400		22200		190000		36900		75800	
DAC-HY-19	19C	2160		3640		675		11700		3900		52600		4160		28600	
DAC-HY-19	31C	1840		1130		593		6780		1890		27300		3950		13000	
DAC-HY-19	32C	2530		1950		812		11400		2920		46300		10700		18500	

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized) (Continued)

Station	Sample	Dibenz(a,h)anthracene Conc. Qual.	Benz(a)anthracene Conc. Qual.	Benzo(a)pyrene Conc. Qual.	Benzo(g,h,i)perylene Conc. Qual.	Chrysene Conc. Qual.	Fluoranthene Conc. Qual.	Total high molecular weight PAHs Conc. Qual.
DAC-HY-06	06C	3160	21800	21200	13000	31600	50300	269000
DAC-HY-06	33C	3630	23000	23500	14200	34400	60100	303000
DAC-HY-06	34C	4650	47000	30300	18200	60600	136000	523000
DAC-HY-19	19C	5190	22100	28600	24400	57100	57100	402000
DAC-HY-19	31C	5080	21200	27100	24900	56500	48000	375000
DAC-HY-19	32C	7140	31500	39000	35700	87700	146000	675000

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized) (Continued)

Station	Sample	Indeno(1,2,3-c-d)pyrene	Pyrene	Total benzofluoranthenes	1,2-Dichlorobenzene	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
		Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
		Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.
DAC-HY-06	06C	13000	67400	48200	518	5030	570	4200
DAC-HY-06	33C	15300	76500	51900	284	2510	306	2790
DAC-HY-06	34C	18200	136000	70700	606	5560	960	8590
DAC-HY-19	19C	20800	98700	88300	174	1040	182	571
DAC-HY-19	31C	20100	76300	96000	203	1100	178	706
DAC-HY-19	32C	29200	166000	133000	208	1360	240	682

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized) (Continued)

Station	Sample	Hexachlorobutadiene	Di-n-octyl phthalate	Bis(2-ethylhexyl)phthalate	Butylbenzyl phthalate	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Hexachlorobenzene
		Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
		Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.
DAC-HY-06	06C	7770	518	7250	503	130	249	321	3250
DAC-HY-06	33C	3880	514	11500	448	148	257	448	2400
DAC-HY-06	34C	7580	197	8080	444	106	172	379	5000
DAC-HY-19	19C	701	184	13000	1380	77.9	779	390	545
DAC-HY-19	31C	932	175	16400	3390	110	1100	763	621
DAC-HY-19	32C	1720	487	16900	1920	104	812	747	909

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized) (Continued)

Station	Sample	Chlorobiphenyl 10/209	Chlorobiphenyl 3/18	Chlorobiphenyl 3/28	Chlorobiphenyl 4/44	Chlorobiphenyl 4/52	Chlorobiphenyl 4/66	Chlorobiphenyl 5/101
		Conc.	Qual.	Conc.	Conc.	Conc.	Conc.	Conc.
DAC-HY-06	06C	2950		321	332	363	622	321
DAC-HY-06	33C	2080		311	339	339	273	372
DAC-HY-06	34C	5000	U	374	808	657	556	475
DAC-HY-19	19C	494		247	312	519	156	1040
DAC-HY-19	31C	565		175	311	706	2.54	1130
DAC-HY-19	32C	584		195	234	455	162	1070

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized) (Continued)

Station	Sample	Chlorobiphenyl 7/187		Chlorobiphenyl 8/195		Chlorobiphenyl 9/206		PCBs, total	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-06	06C	301		176		2280		26400	
DAC-HY-06	33C	295		153		1480		23000	
DAC-HY-06	34C	399		197		3030		29300	
DAC-HY-19	19C	192		44.2		312		17400	
DAC-HY-19	31C	212		48		311		17200	
DAC-HY-19	32C	552		140		582		21100	

Concentrations of Volatile Organic Compounds in Surface Sediments of Hylebos Waterway for Field Replicates (Organic Carbon Normalized)

Station	Sample	Trichloroethene		Tetrachloroethene		Ethylbenzene		Xylenes		1,2-Dichlorobenzene		1,2,4-Trichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene			
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.		
DACHY-06	06C	72.5	U	72.5	U	72.5	U	72.5	U	145	U	72.5	U	363	U	72.5	U	72.5	U
DACHY-06	33C	175	U	92.9	U	92.9	U	92.9	U	186	U	92.9	U	459	U	92.9	U	92.9	U
DACHY-06	34C	75.8	U	75.8	U	75.8	U	75.8	U	152	U	75.8	U	379	U	75.8	U	75.8	U
DACHY-19	19C	26.0	U	26.0	U	26.0	U	26.0	U	52.0	U	26.0	U	130	U	26.0	U	26.0	U
DACHY-19	31C	56.5	U	56.5	U	56.5	U	56.5	U	113	U	56.5	U	282	U	56.5	U	56.5	U
DACHY-19	32C	61.7	U	61.7	U	61.7	U	61.7	U	123	U	61.7	U	312	U	61.7	U	61.7	U

APPENDIX C

**ANALYTICAL RESULTS
FOR SURFACE SEDIMENT SAMPLES**

Measurement of Conventional in Surface Sediments of the Hylebos Waterway and Reference Stations (mg/kg DW)

Station	Sample	Clay, percent		Gravel, percent		Sand, percent		Silt, percent		Total solids		Total volatile solids		Ammonia-nitrogen		Sulfides		Total organic carbon	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	16.0		4.00		42.0		38.0		63.3		21900		1.80		30.0		1.50	
DAC-HY-02	02C	14.0		19.0		37.0		30.0		63.8		26400		2.66		337		1.80	
DAC-HY-03	03C	25.0		0.00		32.0		43.0		55.4		26200		9.03		740		1.92	
DAC-HY-04	04C	23.0		1.00		36.0		40.0		60.0		26000		22.0		179		1.75	
DAC-HY-05	05C	22.0		0.00		39.0		39.0		58.0		28400		26.5		145		1.97	
DAC-HY-06	06C	18.0		1.00		45.0		36.0		57.2		24400		15.6		719		1.93	
DAC-HY-07	07C	19.0		1.00		48.0		32.0		59.7		23200		19.0		151		1.75	
DAC-HY-08	08C	31.0		0.00		13.0		56.0		49.5		29600		9.84		1450		2.88	
DAC-HY-09	09C	23.0		1.00		31.0		45.0		52.0		26900		22.0		270		2.02	
DAC-HY-10	10C	26.0		1.00		24.0		49.0		48.4		28600		26.5		307		2.04	
DAC-HY-11	11C	22.0		1.00		31.0		46.0		53.9		28500		21.5		153	J	2.09	
DAC-HY-12	12C	22.0		0.00		34.0		44.0		53.6		31100		18.6		944	J	2.50	
DAC-HY-13	13C	11.0		28.0		38.0		23.0		65.1		26000		11.7		108	J	1.89	
DAC-HY-14	14C	16.0		2.00		55.0		27.0		61.2		24300		11.1		46.8	J	1.47	
DAC-HY-15	15C	29.0		0.00		19.0		52.0		45.2		34000		21.0		79.0	J	2.55	
DAC-HY-16	16C	30.0		0.00		12.0		58.0		41.2		33100		20.0		813	J	3.12	
DAC-HY-17	17C	16.0		1.00		36.0		47.0		62.1		26300		8.81		210	J	2.28	
DAC-HY-18	18C	28.0		0.00		21.0		51.0		43.7		37500		16.7		816	J	3.37	
DAC-HY-19	19C	27.0		0.00		24.0		49.0		45.9		40100		28.0		941	J	3.85	
DAC-HY-20	20C	36.0		0.00		7.00		57.0		41.8		38800		25.7		2350		4.04	
DAC-HY-21	21C	33.0		0.00		10.0		57.0		40.6		39000		25.9		2820		3.92	
DAC-HY-22	22C	19.0		1.00		51.0		23.0		52.6		28500		18.5		621		3.21	
DAC-HY-23	23C	28.0		1.00		32.0		39.0		44.2		40500		15.9		1610		3.78	
DAC-HY-24	24C	23.0		2.00		23.0		52.0		35.5		61500		25.0		5650		5.85	
DAC-HY-25	25C	33.0		0.00		15.0		52.0		37.7		45200		28.6		2690		6.32	
DAC-HY-26	26C	29.0		1.00		10.0		60.0		37.6		47900		19.2		5290		6.08	
DAC-HY-27	27C	30.0		2.00		11.0		57.0		44.6		39400		30.7		1670	J	3.76	
DAC-HY-28	28C	37.0		0.00		10.0		53.0		39.8		46300		19.3		2970		4.92	
DAC-CR-02	02C-REF	5.00		4.00		59.0		32.0		68.8		13700		5.49		1.46	U	0.981	
DAC-CR-02A	02AC-REF	9.00		0.00		25.0		66.0		61.1		16100		2.50		4.03		0.740	
DAC-HY-30	30C-REF	36.0		1.00		16.0		47.0		49.36		39000		9.66		961		2.42	
DAC-HY-35	35C-REF	29.0		3.00		32.0		36.0		55.0		27800		3.53		172		1.71	

Concentration of Metals in Surface Sediments of the Hylebos Waterway and Reference Stations using Strong Acid Digestion (mg/kg DW)

Station	Sample	Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Silver	Zinc
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	0.995	U	0.184	22.7	48.5	21.5	0.222	UU	0.269	63.4
DAC-HY-02	02C	0.995	U	0.255	30.9	76.4	58.9	0.304	UU	0.325	98.1
DAC-HY-03	03C	0.995	U	0.261	32.4	152	72.3	0.387	UU	0.429	142
DAC-HY-04	04C	0.995	U	0.281	28.0	98.0	47.4	0.255	UU	0.396	124
DAC-HY-05	05C	0.995	U	0.234	29.3	80.2	54.0	0.268	UU	0.416	97.7
DAC-HY-06	06C	0.995	U	0.331	35.9	80.2	68.6	0.365	UU	0.356	130
DAC-HY-07	07C	0.995	U	0.206	28.2	76.1	58.5	0.241	UU	0.315	103
DAC-HY-08	08C	0.995	U	0.400	32.5	82.3	82.5	0.487	UU	0.334	97.2
DAC-HY-09	09C	0.995	U	0.292	27.6	84.0	66.3	0.317	UU	0.399	109
DAC-HY-10	10C	0.995	U	0.343	32.8	110	176	0.395	UU	0.473	129
DAC-HY-11	11C	0.995	U	0.335	28.3	83.7	57.9	0.348	U	0.391	97.4
DAC-HY-12	12C	0.995	U	0.308	27.8	89.7	68.5	0.392	UU	0.424	104
DAC-HY-13	13C	0.995	U	0.230	28.9	59.2	33.0	0.239	UU	0.198	71.4
DAC-HY-14	14C	1.12		0.236	23.1	71.3	40.7	0.242	UU	0.229	86.6
DAC-HY-15	15C	0.995	U	0.447	36.6	115	75.4	0.459	UU	0.465	132
DAC-HY-16	16C	0.995	U	0.560	37.3	125	64.4	0.528	UU	0.449	530
DAC-HY-17	17C	2.07		0.202	20.3	43.4	35.2	0.207	UU	0.112	95.5
DAC-HY-18	18C	1.46		0.618	33.7	121	72.3	0.558	UU	0.481	173
DAC-HY-19	19C	1.45		0.676	32.6	120	74.1	0.595	UU	0.438	169
DAC-HY-20	20C	0.995	U	0.762	49.3	155	90.8	0.759	UU	0.507	243
DAC-HY-21	21C	1.17		0.830	36.4	147	89.1	0.801	UU	0.461	221
DAC-HY-22	22C	1.12		0.685	30.8	114	68.9	0.605	UU	0.341	200
DAC-HY-23	23C	1.36		1.14	34.5	166	84.2	0.578	UU	0.356	380
DAC-HY-24	24C	1.83		1.18	45.6	151	77.9	0.976	UU	0.352	329
DAC-HY-25	25C	2.27		1.35	48.8	184	83.2	0.911	UU	0.399	376
DAC-HY-26	26C	1.54		1.05	50.2	181	91.0	0.997	UU	0.460	347
DAC-HY-27	27C	0.995	U	0.694	40.7	115	52.1	0.619	UU	0.257	210
DAC-HY-28	28C	0.995	U	1.50	43.6	140	65.0	0.747	UU	0.438	263
DAC-CR-02	02C-REF	0.995	U	0.156	25.8	12.2	4.02	0.084	UU	0.045	37.5
DAC-CR-02A	02AC-REF	0.995	U	0.311	31.4	18.7	6.09	0.113	UU	0.096	51.3
DAC-HY-30	30-C-REF	0.995	U	0.207	28.3	65.7	27.3	0.386	UU	0.371	86.5
DAC-HY-35	35C-REF	0.995	U	0.195	23.3	53.8	32.5	0.279	UU	0.356	95.8
DAC-HY-26	26FB	0.995	U	0.005	0.967	2.70	0.179	0.248	U	0.018	1.90
DAC-HY-05	05CCB	0.995	U	0.005	0.967	3.49	0.179	0.055	U	0.018	2.93

Concentration of Metals in Surface Sediments of the Hylebos Waterway and Reference Stations using Total Acid Digestion (mg/kg DW)

Station	Sample	Antimony		Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	1.73	U	5.45	U	0.216	U	29.0	U	53.6	U	23.4	U	0.082	U	24.8	U	0.189	U	109	U
DAC-HY-02	02C	5.81	U	15.2	U	0.303	U	31.5	U	90.7	U	44.9	U	0.221	U	28.8	U	0.229	U	135	U
DAC-HY-03	03C	3.40	U	12.9	U	0.296	U	31.6	U	159	U	50.3	U	0.160	U	28.6	U	0.309	U	210	U
DAC-HY-04	04C	4.40	U	10.7	U	0.298	U	31.4	U	121	U	63.0	U	0.195	U	28.3	U	0.259	U	176	U
DAC-HY-05	05C	3.10	U	12.2	U	0.301	U	31.2	U	80.8	U	40.8	U	0.200	U	27.7	U	0.268	U	119	U
DAC-HY-06	06C	3.05	U	15.0	U	0.405	U	31.0	U	79.1	U	73.9	U	0.281	U	35.0	U	0.264	U	142	U
DAC-HY-07	07C			10.8	U	0.323	U	29.1	U	84.4	U	56.4	U	0.209	U	30.7	U	0.254	U	145	U
DAC-HY-08	08C	3.44	U	17.3	U	0.456	U	30.5	U	94.7	U	86.4	U	0.303	U	36.4	U	0.295	U	135	U
DAC-HY-09	09C	2.87	U	11.3	U	0.318	U	30.5	U	104	U	64.2	U	0.206	U	29.9	U	0.307	U	155	U
DAC-HY-10	10C	4.59	U	8.64	U	0.339	U	91.7	U	113	U	158	U	0.239	U	32.8	U	0.328	U	161	U
DAC-HY-11	11C	3.28	U	15.8	U	0.382	U	29.2	U	94.5	U	59.6	U	0.250	U	30.0	U	0.309	U	140	U
DAC-HY-12	12C	3.84	U	16.0	U	0.356	U	28.7	U	103	U	65.1	U	0.248	U	30.2	U	0.306	U	113	U
DAC-HY-13	13C	3.69	U	7.88	U	0.241	U	29.2	U	60.7	U	30.7	U	0.116	U	27.1	U	0.140	U	105	U
DAC-HY-14	14C	15.2	U	21.1	U	0.269	U	35.2	U	77.6	U	55.3	U	0.152	U	28.2	U	0.173	U	144	U
DAC-HY-15	15C	10.9	U	15.8	U	0.383	U	35.0	U	132	U	89.3	U	0.358	U	32.1	U	0.368	U	173	U
DAC-HY-16	16C	7.88	U	34.9	U	0.477	U	37.1	U	136	U	83.1	U	0.393	U	37.5	U	0.363	U	579	U
DAC-HY-17	17C	4.57	U	9.92	U	0.202	U	28.7	U	53.8	U	207	U	0.174	U	29.5	U	0.095	U	99.4	U
DAC-HY-18	18C	10.4	U	17.5	U	0.474	U	34.8	U	130	U	87.9	U	0.366	U	34.4	U	0.325	U	213	U
DAC-HY-19	19C	14.1	U	40.1	U	0.529	U	33.6	U	135	U	95.5	U	2.70	U	36.7	U	0.340	U	217	U
DAC-HY-20	20C	10.6	U	45.9	U	0.674	U	36.2	U	160	U	105	U	0.569	U	40.3	U	0.370	U	261	U
DAC-HY-21	21C	16.5	U	32.2	U	0.703	U	39.3	U	161	U	103	U	0.774	U	43.7	U	0.398	U	279	U
DAC-HY-22	22C	7.13	U	30.9	U	0.492	U	34.4	U	101	U	57.0	U	0.357	U	35.9	U	0.206	U	196	U
DAC-HY-23	23C	16.5	U	22.9	U	1.07	U	39.8	U	190	U	105	U	0.414	U	39.8	U	0.288	U	434	U
DAC-HY-24	24C	11.6	U	120	U	1.95	U	39.4	U	154	U	114	U	2.73	U	38.2	U	0.248	U	295	U
DAC-HY-25	25C	13.8	U	61.4	U	1.36	U	40.7	U	230	U	122	U	0.631	U	39.4	U	0.289	U	384	U
DAC-HY-26	26C	14.5	U	55.1	U	0.981	U	40.4	U	183	U	129	U	0.715	U	41.2	U	0.289	U	324	U
DAC-HY-27	27C	6.77	U	97.6	U	0.633	U	33.7	U	127	U	64.0	U	0.396	U	36.4	U	0.202	U	216	U
DAC-HY-28	28C	8.59	U	37.0	U	0.803	U	38.8	U	141	U	73.6	U	0.501	U	38.8	U	0.245	U	250	U
DAC-CR-02	02C-FEF	1.22	U	3.06	U	0.348	U	61.4	U	16.0	U	10.4	U	0.038	U	33.9	U	0.076	U	17.2	U
DAC-CR-02A	02A-REF	1.22	U	1.87	U	0.180	U	45.8	U	9.80	U	8.49	U	0.024	U	27.5	U	0.043	U	15.7	U
DAC-HY-30	30C-FEF	1.22	U	6.41	U	0.295	U	27.7	U	71.4	U	28.7	U	0.251	U	26.1	U	0.240	U	75.5	U
DAC-HY-35	35C-FEF	1.22	U	6.61	U	0.217	U	20.9	U	52.1	U	40.9	U	0.169	U	24.6	U	0.217	U	64.6	U
DAC-HY-26	26FB	1.22	U	0.136	U	0.046	U	1.75	U	0.602	U	0.486	U	0.024	U	0.783	U	0.007	U	15.7	U
DAC-HY-05	05C0B	1.22	U	0.136	U	0.046	U	1.75	U	0.602	U	0.486	U	0.024	U	0.783	U	0.007	U	15.7	U

Concentration of Organotin Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)

Station	Sample	Monobutyltin Conc. Qual.	Dibutyltin Conc. Qual.	Tributyltin Conc. Qual.	Tetrabutyltin Conc. Qual.
DAC-HY-01	01C	7.13 U	13.2	37.1	7.13 U
DAC-HY-02	02C	6.60 U	19.0	43.6	6.60 U
DAC-HY-03	03C	8.28 U	82.8	236	8.28 U
DAC-HY-04	04C	7.12 U	54.1	122	7.12 U
DAC-HY-05	05C	8.39 U	22.4	64.8	8.39 U
DAC-HY-06	06C	7.31 U	7.31 U	35.1	7.31 U
DAC-HY-07	07C	6.63 U	33.4	90.2	6.63 U
DAC-HY-08	08C	9.32 U	9.32 U	31.0	9.32 U
DAC-HY-09	09C	9.20 U	52.3	169	9.20 U
DAC-HY-10	10C	10.4 U	52.5	179	10.4 U
DAC-HY-11	11C	7.93 U	10.8	50.6	7.93 U
DAC-HY-12	12C	8.63 U	42.7	78.8	8.63 U
DAC-HY-13	13C	6.25 U	6.25 U	14.9	6.25 U
DAC-HY-14	14C	7.58 U	12.2	140	7.58 U
DAC-HY-15	15C	9.71 U	32.0	133	9.71 U
DAC-HY-16	16C	9.79 U	41.7	199	9.79 U
DAC-HY-17	17C	5.78 U	5.78 U	15.5	5.78 U
DAC-HY-18	18C	10.4 U	32.2	184	10.4 U
DAC-HY-19	19C	9.78 U	55.7	218	9.77 U
DAC-HY-20	20C	11.1 U	70.3	225	11.1 U
DAC-HY-21	21C	11.8 U	64.1	174	11.8 U
DAC-HY-22	22C	7.01 U	47.0	81.9	7.01 U
DAC-HY-23	23C	10.7 U	73.7	128	10.7 U
DAC-HY-24	24C	12.8 U	70.0	212	12.8 U
DAC-HY-25	25C	12.7 U	79.1	238	12.7 U
DAC-HY-26	26C	11.9 U	82.6	181	11.9 U
DAC-HY-27	27C	10.6 U	46.5	136	10.6 U
DAC-HY-28	28C	11.6 U	55.5	174	11.6 U
DAC-CR-02	02C-REF	5.75 U	5.75 U	5.75 U	5.75 U
DAC-CR-02A	02AC-REF	7.26 U	7.26 U	7.26 U	7.26 U
DAC-HY-30	30C-REF	10.5 U	19.9	25.5	10.5 U
DAC-HY-35	35C-REF	7.14 U	7.14 U	7.14 U	7.14 U

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)

Station	Sample	2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Fluorene		Total low molecular weight PAHs	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	57.0		17.0		9.80		71.0		31.0		372	
DAC-HY-02	02C	61.0		46.0		19.0		130		64.0		789	
DAC-HY-03	03C	150	J	190		22.0		740	J	310	J	2880	J
DAC-HY-04	04C	87.0		61.0		20.0		170		71.0		902	
DAC-HY-05	05C	100		51.0		25.0		800		190		2170	
DAC-HY-06	06C	130		110		19.0		270		150		1470	
DAC-HY-07	07C	130		64.0		21.0		520		110		1460	
DAC-HY-08	08C	190		86.0		47.0		310		140		1530	
DAC-HY-09	09C	120		63.0		19.0		300		110		1360	
DAC-HY-10	10C	110		87.0		26.0		330		140		1610	
DAC-HY-11	11C	75.0		38.0		21.0		160		60.0		769	
DAC-HY-12	12C	100		62.0		30.0		250		97.0		1150	
DAC-HY-13	13C	100		61.0		23.0		120		68.0		862	
DAC-HY-14	14C	65.0		34.0		22.0		110		47.0		643	
DAC-HY-15	15C	88.0		56.0		32.0		290		97.0		1220	
DAC-HY-16	16C	72.0		44.0		23.0		160	J	66.0	J	913	J
DAC-HY-17	17C	21.0		11.0		5.30		60.0		18.0		248	
DAC-HY-18	18C	73.0		41.0		21.0		240		73.0		985	
DAC-HY-19	19C	83.0		140		26.0		450		150		2030	
DAC-HY-20	20C	63.0		44.0		20.0		270		71.0		1080	
DAC-HY-21	21C	72.0		57.0		25.0		300		83.0		1160	
DAC-HY-22	22C	47.0		42.0		13.0		430		69.0		2640	
DAC-HY-23	23C	51.0		42.0		16.0		250		66.0		964	
DAC-HY-24	24C	59.0		61.0		17.0		990		170		2100	
DAC-HY-25	25C	53.0		40.0		22.0		270		68.0		955	J
DAC-HY-26	26C	42.0		28.0		22.0		170		60.0		728	
DAC-HY-27	27C	33.0		23.0		14.0		130		39.0		531	J
DAC-HY-28	28C	57.0		35.0		20.0		240		70.0		841	J
DAC-CR-02	02C-REF	0.700	U	0.820	U	0.480	U	0.420	U	0.660	U	6.58	<
DAC-CR-02A	02AC-REF	2.30		1.90	U	1.10	U	1.40		1.50	U	16.9	<
DAC-HY-30	30C-REF	68.0		66.0		12.0		190		82.0		1062	J
DAC-HY-35	35C-REF	93.0		100		23.0		230		110		1450	
DAC-HY-05	05CCB	1.10	U	1.40	U	0.830	U	0.740	U	1.10	U	6.69	
DAC-HY-22	22FB	0.650	U	0.760	U	0.440	U	0.390	U	0.610	U	3.04	

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	Naphthalene		Phenanthrene		Dibenz(a,h)anthracene		Benz(a)anthracene		Benzo(a)pyrene		Benzo(g,h,i)perylene		Chrysene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	83.0		160		15.0		98.0		92.0		65.0		140	
DAC-HY-02	02C	130		400		38.0		200		230		160		290	
DAC-HY-03	03C	220		1400	J	110		990		800		410		1200	
DAC-HY-04	04C	160		420		51.0		340		340		200		480	
DAC-HY-05	05C	170		830		56.0		560		390		220		810	
DAC-HY-06	06C	260		660		61.0		420		410		250		610	
DAC-HY-07	07C	200		550		55.0		520		400		220		680	
DAC-HY-08	08C	300		650		80.0		530		520		410		1100	
DAC-HY-09	09C	300		570		67.0		520		420		250		760	
DAC-HY-10	10C	240		790		92.0		710		620		360		1100	
DAC-HY-11	11C	150		340		57.0		350		350		240		610	
DAC-HY-12	12C	230		480		94.0		590		590		350		1000	
DAC-HY-13	13C	320		270		24.0		180		150		110		330	
DAC-HY-14	14C	170		260		45.0		240		280		190		470	
DAC-HY-15	15C	200		540		110		520		550		450		1100	
DAC-HY-16	16C	150		470		110		390		550		460		880	
DAC-HY-17	17C	54.0		100		48.0		130		290		230		430	
DAC-HY-18	18C	130		480		140		510		720		620		1300	
DAC-HY-19	19C	160		1100		200		850		1100		940		2200	
DAC-HY-20	20C	140		530		190		730		910		870		1800	
DAC-HY-21	21C	130		560		210		670		1000		880		1800	
DAC-HY-22	22C	91.0		2000		150		640		700		590		1500	
DAC-HY-23	23C	100		490		210		770		1100		870		1900	
DAC-HY-24	24C	86.0		780		340		1900		1800		1300		3700	
DAC-HY-25	25C	85.0		470	J	280		740		1300		1000		2100	
DAC-HY-26	26C	78.0		370	J	240		470		1000		870		1500	
DAC-HY-27	27C	55.0		270	J	150		330		690		550		980	
DAC-HY-28	28C	66.0		410	J	180		670		850		640		1600	
DAC-CF-02	02C-REF	1.30		2.90		0.720		0.570		0.550		0.680		2.10	
DAC-CF-02A	02AC-REF	4.00		7.00		1.10		3.50		3.50		4.90		6.40	
DAC-HY-30	30C-REF	94.0		550	J	43.0		240		260		170		340	
DAC-HY-35	35C-REF	170		820		34.0		340		250		150		370	
DAC-HY-05	05CCB	1.90	U	0.720	U	0.830	U	0.650	U	0.660	U	0.780	U	0.600	U
DAC-HY-22	22FB	0.450	U	0.390	U	0.530	U	0.420	U	0.410	U	0.500	U	0.390	U

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	Fluoranthene		Total high molecular weight PAHs		Indeno(1,2,3-c,d)pyrene		Pyrene		Total benzofluoranthenes		2-Methylphenol	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	240		1270		61.0		320		240		2.90	U
DAC-HY-02	02C	570		2970		160		760		560		4.50	U
DAC-HY-03	03C	2400	J	10200	J	440		1900	J	1900		6.90	U
DAC-HY-04	04C	900		4380		200		1000		870		4.70	U
DAC-HY-05	05C	1600		6160		220		1300		1000		5.50	U
DAC-HY-06	06C	970		5200		250		1300		930		6.30	U
DAC-HY-07	07C	1200		5540		230		1300		930		5.10	U
DAC-HY-08	08C	1100		7190		350		1500		1600		9.50	U
DAC-HY-09	09C	1400		6070		250		1300		1100		11.0	U
DAC-HY-10	10C	1900		8450		370		1600		1700		12.0	U
DAC-HY-11	11C	830		4750		210		1000		1100		7.30	U
DAC-HY-12	12C	1100		6970		350		1300		1600		9.40	U
DAC-HY-13	13C	560		2520		91.0		630		440		6.20	U
DAC-HY-14	14C	600		3620		170		780		840		18.0	U
DAC-HY-15	15C	1200		7640		410		1500		1800		8.00	U
DAC-HY-16	16C	970		6960		400		1400		1800		8.20	U
DAC-HY-17	17C	300		3450		180		950		890		1.80	U
DAC-HY-18	18C	1400		9620		530		2100		2300		23.0	U
DAC-HY-19	19C	2200		15500		800		3800		3400		7.50	U
DAC-HY-20	20C	1800		12700		720		2400		3300		8.40	U
DAC-HY-21	21C	1700		13200		780		2800		3400		7.80	U
DAC-HY-22	22C	2900		12100		540		2700		2400		4.70	U
DAC-HY-23	23C	1600		13400		750		2300		3900		10.0	U
DAC-HY-24	24C	6100		28500		1100		5700		6600		14.0	U
DAC-HY-25	25C	2000	J	16600		930		3400		4800		7.90	U
DAC-HY-26	26C	1100	J	12400		800		2500		3900		8.80	U
DAC-HY-27	27C	1100	J	8590		490		1800		2500		4.80	U
DAC-HY-28	28C	2200	J	11800		600		2100		3000		7.30	U
DAC-CR-02	02C-REF	6.10		17.4	<	0.720	U	4.90		1.10		2.00	U
DAC-CR-02A	02AC-REF	15.0		62.1	<	3.70		12.0		12.0		1.90	U
DACHY-30	30C-REF	670		3183	J	180		750		530		4.60	U
DACHY-35	35C-REF	780		3410		140		890		460		4.50	U
DACHY-05	05COB	0.650	U	6.25		0.870	U	0.620	U	0.590	U	0.640	U
DACHY-22	22FB	0.360	U	3.89		0.530	U	0.350	U	0.400	U	10.0	U

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	2,4-Dimethylphenol		4-Methylphenol		Pentachlorophenol		Phenol		1,2-Dichlorobenzene		1,2,4-Trichlorobenzene		1,3-Dichlorobenzene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	3.70		26.0	J	13.0	J	33.0		1.50		6.90		1.20	
DAC-HY-02	02C	4.40		23.0	J	27.0	J	38.0		4.10		29.0		3.10	
DAC-HY-03	03C	8.30		33.0	J	56.0	J	57.0		5.50		16.0		2.20	
DAC-HY-04	04C	5.60		27.0	J	55.0	J	45.0		4.00		22.0		3.00	
DAC-HY-05	05C	5.10		26.0	J	40.0	J	45.0		4.70		31.0		3.90	
DAC-HY-06	06C	6.10		20.0	J	35.0	J	40.0		10.0		97.0		11.0	
DAC-HY-07	07C	9.80		20.0	J	45.0	J	39.0		4.90		45.0		5.20	
DAC-HY-08	08C	13.0		120	J	37.0	J	38.0		10.0		74.0		11.0	
DAC-HY-09	09C	11.0		40.0	J	790	J	48.0		8.50		59.0		9.80	
DAC-HY-10	10C	18.0		38.0	J	180	J	45.0		13.0		110		14.0	
DAC-HY-11	11C	7.50		27.0	J	64.0	J	40.0		5.90		42.0		6.30	
DAC-HY-12	12C	12.0		34.0	J	150	J	44.0		5.30		35.0		5.30	
DAC-HY-13	13C	7.10		37.0	J	17.0	J	30.0		1.40		7.40		1.60	U
DAC-HY-14	14C	4.90		24.0	J	26.0	J	27.0		2.40		15.0		2.50	U
DAC-HY-15	15C	11.0		43.0	J	53.0	J	38.0		3.10		19.0		3.00	
DAC-HY-16	16C	7.90		40.0	J	95.0	J	42.0		3.70		22.0		4.10	
DAC-HY-17	17C	12.0		16.0	J	15.0	J	53.0		2.00		14.0		2.30	
DAC-HY-18	18C	10.0		32.0	J	69.0	J	38.0		4.60		30.0		5.30	
DAC-HY-19	19C	9.70		42.0	J	72.0	J	44.0		6.70		40.0		7.00	
DAC-HY-20	20C	16.0		40.0	J	75.0	J	68.0		3.60		25.0		4.00	
DAC-HY-21	21C	11.0		42.0	J	91.0	J	47.0		6.60		37.0		6.70	
DAC-HY-22	22C	6.50		22.0	J	42.0	J	33.0		4.50		21.0		4.10	
DAC-HY-23	23C	8.20		44.0	J	52.0	J	53.0		3.40		15.0		2.80	
DAC-HY-24	24C	11.0		72.0	J	55.0	J	53.0		3.00		12.0		3.00	
DAC-HY-25	25C	8.00		53.0	J	74.0	J	57.0		3.40		14.0		2.90	
DAC-HY-26	26C	7.10		53.0	J	93.0	J	56.0		2.40		11.0		2.30	
DAC-HY-27	27C	4.90		36.0	J	52.0	J	43.0		2.00		7.70		1.60	
DAC-HY-28	28C	7.50		49.0	J	65.0	J	49.0		2.00		8.00		1.90	
DAC-CR-02	02C-REF	0.410		3.90	J	0.760	J	21.0		0.300		0.270	U	0.260	U
DAC-CR-02A	02AC-REF	1.50		4.00	J	0.700	J	16.0	U	0.400		0.320	U	0.380	U
DAC-HY-30	30C-REF	4.40		25.0	J	13.0	J	31.0		1.60		2.50		1.00	
DAC-HY-35	35C-REF	6.00		32.0	J	7.80	J	31.0		1.80		2.00		0.690	
DAC-HY-05	05CCB	0.670	U	1.20	U	0.340	U	26.0	U	0.480	U	0.420	U	0.470	U
DAC-HY-22	22FB	0.440	U	0.660	U	0.480	U	16.0	U	0.350	U	0.310	U	0.390	U

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)

Station	Sample	1,4-Dichlorobenzene		Hexachlorobutadiene		Di-n-octyl phthalate		Bis(2-ethylhexyl)phthalate		Butylbenzyl phthalate		Diethyl phthalate		Dimethyl phthalate	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	8.60	U	14.0		3.00		94.0	J	12.0	J	3.30	UJ	2.40	J
DAC-HY-02	02C	19.0		49.0		3.30		89.0	J	8.70	UJ	2.80	UJ	2.30	J
DAC-HY-03	03C	61.0		25.0		11.0		470	J	35.0	J	2.20	UJ	7.90	J
DAC-HY-04	04C	47.0		37.0		7.70		250	J	20.0	J	2.60	UJ	5.20	J
DAC-HY-05	05C	31.0		75.0		5.30		550	J	15.0	J	3.00	UJ	8.90	J
DAC-HY-06	06C	81.0		150		10.0		140	J	9.70	J	2.50	UJ	4.80	J
DAC-HY-07	07C	25.0		260		5.40		270	J	8.80	UJ	2.60	UJ	14.0	J
DAC-HY-08	08C	35.0		240		5.80		160	J	13.0	U	4.20	U	5.20	J
DAC-HY-09	09C	40.0		220		9.90		1100	J	22.0	U	2.50	U	9.60	J
DAC-HY-10	10C	50.0		120		14.0		460	J	46.0	U	5.10	U	47.0	J
DAC-HY-11	11C	28.0		66.0		7.70		310	J	20.0	U	3.90	U	11.0	J
DAC-HY-12	12C	44.0		62.0		11.0		330	J	36.0	U	4.50	U	12.0	J
DAC-HY-13	13C	7.30	U	16.0		2.70		100	J	5.10	U	2.30	U	6.90	J
DAC-HY-14	14C	12.0		23.0		4.00		180	J	19.0	U	3.00	U	6.20	J
DAC-HY-15	15C	17.0	U	25.0		8.70		520	J	63.0	UJ	4.30	UJ	33.0	J
DAC-HY-16	16C	20.0		25.0		3.80	J	580	J	93.0	U	6.10	U	38.0	J
DAC-HY-17	17C	5.70	U	8.80		1.90		71.0	UJ	8.10	UJ	1.90	UJ	0.960	J
DAC-HY-18	18C	21.0		24.0		8.20		560	J	67.0	J	3.30	UJ	32.0	J
DAC-HY-19	19C	22.0		27.0		7.10		500	J	53.0	J	3.00	UJ	30.0	J
DAC-HY-20	20C	17.0	U	19.0		7.60		760	J	120	U	4.10	UJ	55.0	J
DAC-HY-21	21C	23.0		24.0		5.80		770	J	82.0	J	6.40	UJ	65.0	J
DAC-HY-22	22C	14.0		17.0		7.90		600	J	70.0	J	0.520	UJ	19.0	J
DAC-HY-23	23C	15.0	U	12.0		14.0	J	920	J	580	J	3.40	UJ	36.0	J
DAC-HY-24	24C	16.0	U	12.0		12.0		1400	J	150	J	8.30	UJ	75.0	J
DAC-HY-25	25C	16.0		9.60		12.0		1000	J	88.0	U	3.30	UJ	48.0	J
DAC-HY-26	26C	12.0		6.60		6.40		920	J	55.0	U	5.00	UJ	54.0	J
DAC-HY-27	27C	10.0		5.70		13.0		1200	J	67.0	UJ	2.10	UJ	60.0	J
DAC-HY-28	28C	13.0		6.80		11.0		1200	J	100	UJ	1.80	UJ	67.0	J
DAC-CR-02	02C-REF	1.20	U	1.10	U	0.190	U	7.90	U	0.970	UJ	2.10	UJ	0.210	J
DAC-CR-02A	02AC-REF	1.80	U	1.50	U	0.350	U	18.0	UJ	1.90	U	2.50	U	0.420	UJ
DAC-HY-30	30C-REF	10.0		3.30		7.80		150	J	13.0	UJ	3.20	UJ	20.0	J
DAC-HY-35	35C-REF	7.70	U	3.20		1.80		97.0	J	5.70	UJ	2.70	UJ	5.50	J
DAC-HY-05	05CCB	1.60	U	1.50	U	0.960		140	J	1200	U	4.00	U	0.250	U
DAC-HY-22	22FB	1.00	U	1.20	U	2.70		900	J	24.0	J	1.50	U	0.085	U

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	D-n-butyl phthalate		Gamma-HCH (Lindane)		Hexachlorobenzene		Aldrin		Alpha-chlordane		Gamma-chlordane		Chlordane	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	72.0	J	0.470	11.0	11.0	0.088	U	0.610	0.910	1.50				
DAC-HY-02	02C	6.20	UJ	0.990	20.0	20.0	0.065	U	2.00	2.10	4.10				
DAC-HY-03	03C	30.0	UJ	0.840	22.0	22.0	8.00	U	1.90	0.070	1.90				
DAC-HY-04	04C	14.0	UJ	0.940	22.0	22.0	0.076	U	1.80	2.90	4.70				
DAC-HY-05	05C	76.0	J	1.20	41.0	41.0	0.078	U	1.90	3.20	5.10				
DAC-HY-06	06C	6.20	UJ	2.00	63.0	63.0	0.062	U	3.00	4.20	7.20				
DAC-HY-07	07C	13.0	UJ	2.60	64.0	64.0	0.500	U	2.40	5.90	8.30				
DAC-HY-08	08C	9.40	U	3.00	54.0	54.0	0.086	U	3.40	0.062	3.40				
DAC-HY-09	09C	30.0	U	4.80	120	120	0.040	U	2.00	3.40	5.40				
DAC-HY-10	10C	25.0	U	3.80	64.0	64.0	0.043	U	5.10	2.20	7.30				
DAC-HY-11	11C	14.0	U	1.90	40.0	40.0	0.081	U	2.00	2.50	4.50				
DAC-HY-12	12C	11.0	U	1.90	45.0	45.0	0.088	U	2.90	0.064	2.90				
DAC-HY-13	13C	5.50	U	0.670	12.0	12.0	0.076	U	0.670	1.70	2.40				
DAC-HY-14	14C	8.50	U	0.740	16.0	16.0	0.075	U	1.10	2.00	3.20				
DAC-HY-15	15C	21.0	UJ	1.40	28.0	28.0	0.082	U	1.20	0.080	1.20				
DAC-HY-16	16C	26.0	U	1.20	23.0	23.0	6.30	U	1.80	4.10	5.90				
DAC-HY-17	17C	5.90	UJ	1.00	9.90	9.90	0.057	U	1.10	1.00	2.10				
DAC-HY-18	18C	20.0	UJ	1.10	21.0	21.0	0.067	U	1.90	0.065	1.90				
DAC-HY-19	19C	15.0	UJ	1.40	21.0	21.0	0.061	U	2.30	0.060	2.30				
DAC-HY-20	20C	34.0	UJ	1.30	23.0	23.0	0.082	U	1.50	0.080	1.50				
DAC-HY-21	21C	30.0	UJ	1.80	29.0	29.0	0.066	U	3.00	3.50	6.40				
DAC-HY-22	22C	24.0	UJ	0.780	12.0	12.0	0.059	U	1.30	0.058	1.30				
DAC-HY-23	23C	28.0	UJ	0.590	11.0	11.0	7.70	U	1.20	4.10	5.30				
DAC-HY-24	24C	79.0	UJ	0.610	12.0	12.0	6.70	U	1.40	0.480	1.90				
DAC-HY-25	25C	23.0	UJ	0.760	13.0	13.0	5.30	U	2.00	1.20	3.10				
DAC-HY-26	26C	17.0	UJ	0.550	12.0	12.0	5.20	U	2.60	0.130	2.70				
DAC-HY-27	27C	20.0	UJ	0.410	8.10	8.10	3.30	U	1.80	4.20	6.00				
DAC-HY-28	28C	23.0	UJ	0.400	8.70	8.70	4.10	U	2.50	0.550	3.10				
DAC-CR-02	02C-REF	2.70	UJ	0.070	0.110	0.110	0.100	U	0.130	0.110	0.240				
DAC-CR-02A	02AC-REF	5.40	UJ	0.110	0.180	0.180	0.082	U	0.390	0.550	0.940				
DAC-HY-30	30C-REF	11.0	UJ	0.530	4.60	4.60	0.090	U	0.540	0.097	0.540				
DAC-HY-35	35C-REF	6.80	UJ	0.210	4.30	4.30	0.120	U	0.350	1.80	2.20				
DAC-HY-05	05CCB	1800	J	0.068	0.064	0.064	0.062	U	0.140	0.120					
DAC-HY-22	22FB	2900	J	0.037	0.480	0.480	0.066	U	0.045	0.048					

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	Dieldrin		Heptachlor		Chlorobiphenyl 10/209		Chlorobiphenyl 3/18		Chlorobiphenyl 3/28		Chlorobiphenyl 4/44		Chlorobiphenyl 4/52	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	0.120		0.200		12.0		2.10		0.510	U	1.30	U	0.800	
DAC-HY-02	02C	0.520		0.800		35.0		5.40		3.20		3.10	U	4.50	
DAC-HY-03	03C	0.750		0.500		25.0		4.50		2.30	U	3.10	U	2.10	
DAC-HY-04	04C	0.590		0.500		15.0		5.70		2.90		3.00		3.10	
DAC-HY-05	05C	0.790		0.800		40.0		6.20		3.40		3.50	U	3.10	
DAC-HY-06	06C	1.40		1.90		57.0		5.80		6.20		6.40		7.00	
DAC-HY-07	07C	0.340		4.10		29.0		12.0		5.70		4.40	U	3.10	
DAC-HY-08	08C	1.40		1.90		140		11.0		9.00		10.0		5.10	
DAC-HY-09	09C	1.40		4.10		12.0		22.0		3.90		2.60	U	3.60	
DAC-HY-10	10C	2.30		0.500		16.0		15.0		3.60		2.40	U	9.50	
DAC-HY-11	11C	1.60		0.800		25.0		9.90		2.40		4.70	U	4.20	
DAC-HY-12	12C	2.50		0.400		19.0		10.0		3.60		4.40	U	4.60	
DAC-HY-13	13C	0.055	U	0.400		6.00		3.40		0.880	U	1.60	U	2.70	
DAC-HY-14	14C	0.054	U	0.500		10.0		4.10		1.40		4.00	U	4.50	
DAC-HY-15	15C	1.90		1.80		22.0		3.80		2.20		6.90		8.90	
DAC-HY-16	16C	1.30		0.700		26.0		4.70		4.10		8.50		9.20	
DAC-HY-17	17C	0.057	U	1.10		9.50		6.40		4.10		9.80		31.0	
DAC-HY-18	18C	1.20		1.60		22.0		11.0		6.30		8.70	U	16.0	
DAC-HY-19	19C	0.062	U	0.900		19.0		14.0		9.50		12.0		20.0	
DAC-HY-20	20C	3.50		1.40		19.0		5.90		5.00		10.0		16.0	
DAC-HY-21	21C	3.30		0.800		22.0		21.0		8.80		11.0		16.0	
DAC-HY-22	22C	1.40		0.400		11.0		8.60		6.10		7.20	U	11.0	
DAC-HY-23	23C	1.50		0.500		13.0		8.70		12.0		12.0		17.0	
DAC-HY-24	24C	1.40		0.400		9.30		5.90		8.50		11.0		14.0	
DAC-HY-25	25C	2.10		0.900		18.0		6.90		8.00		13.0		14.0	
DAC-HY-26	26C	2.20		0.700		17.0		4.10		5.50		13.0		15.0	
DAC-HY-27	27C	2.00		0.500		12.0		3.70		4.40		8.50	U	12.0	
DAC-HY-28	28C	2.30		0.700		10.0		4.00		4.80		8.20	U	11.0	
DAC-CR-02	02C-REF	0.054		0.100		0.055	U	0.190	U	0.180	U	0.530	U	0.180	
DAC-CR-02A	02AC-REF	0.086	U	0.100	U	0.150		0.280	U	0.220		0.560	U	0.210	
DAC-HY-30	30C-REF	0.570		0.300		3.90		2.30		0.770	U	2.00	U	2.10	
DAC-HY-35	35C-REF	0.340		0.100		1.50		2.60		0.980	U	1.20	U	1.70	
DAC-HY-05	05CCB	0.063	U	0.076	U	0.160	U	0.320	U	0.220	U	0.900	U	0.210	U
DAC-HY-22	22FB	0.048	U	0.029	U	0.500	U	0.180	U	0.170	U	0.510	U	0.130	U

Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)

Station	Sample	Chlorobiphenyl 4/66	Chlorobiphenyl 5/101	Chlorobiphenyl 5/105	Chlorobiphenyl 5/118	Chlorobiphenyl 6/128	Chlorobiphenyl 6/138	Chlorobiphenyl 6/153
		Conc. Qual.	Conc. Qual.	Conc. Qual.	Conc. Qual.	Conc. Qual.	Conc. Qual.	Conc. Qual.
DAC-HY-01	01C	0.100 U	2.00	1.00	5.40	0.590	2.90	3.50
DAC-HY-02	02C	6.00	5.60	5.30	31.0	1.50	12.0	7.90
DAC-HY-03	03C	1.00 U	3.70	1.50	2.30	1.20	5.90	6.20
DAC-HY-04	04C	4.00	5.00	5.00	22.0	1.40	6.70	7.10
DAC-HY-05	05C	4.00	7.90	3.70	26.0	3.70	12.0	15.0
DAC-HY-06	06C	12.0	6.20	7.40	41.0	0.048 U	11.0	8.70
DAC-HY-07	07C	7.00	3.10	6.50	20.0	0.042 U	8.40	0.070 U
DAC-HY-08	08C	10.0	6.90	4.70	50.0	0.067 U	9.20	15.0
DAC-HY-09	09C	9.00	1.70	3.30	25.0	0.031 U	5.70	2.90
DAC-HY-10	10C	9.00	0.060 U	9.40	54.0	3.40	13.0	55.0
DAC-HY-11	11C	5.00	5.40	7.70	47.0	0.760	14.0	13.0 J
DAC-HY-12	12C	6.00	8.30	8.00	45.0	3.90	19.0	14.0
DAC-HY-13	13C	2.00	4.80	2.80	13.0	1.30	6.10	9.20
DAC-HY-14	14C	2.00	8.70	4.70	7.50	3.30	14.0	15.0
DAC-HY-15	15C	0.100 U	18.0	0.075 U	24.0	5.40	28.0	24.0
DAC-HY-16	16C	8.00	28.0	11.0	28.0	8.60	37.0	61.0 J
DAC-HY-17	17C	0.100 U	50.0	20.0	63.0	10.0	46.0	47.0
DAC-HY-18	18C	0.100 U	33.0	13.0	35.0	8.00	43.0	43.0
DAC-HY-19	19C	6.00	40.0	16.0	40.0	11.0	48.0	48.0
DAC-HY-20	20C	0.100 U	39.0	0.074 U	50.0	12.0	52.0	40.0
DAC-HY-21	21C	7.00	35.0	27.0	45.0	0.070 U	45.0	0.120 U
DAC-HY-22	22C	0.100 U	24.0	8.80	33.0	7.00	26.0	30.0
DAC-HY-23	23C	13.0	33.0	0.085 U	35.0	9.90	43.0	32.0
DAC-HY-24	24C	0.400	32.0	0.110 U	36.0	6.90	39.0	33.0
DAC-HY-25	25C	12.0	29.0	9.20	26.0	6.70	35.0	38.0
DAC-HY-26	26C	10.0	26.0	7.50	19.0	5.70	32.0	36.0
DAC-HY-27	27C	8.00	21.0	6.60	24.0	5.10	25.0	28.0
DAC-HY-28	28C	7.00	19.0	7.00	15.0	4.70	24.0	26.0
DAC-CR-02	02C-REF	0.080 U	0.200 U	0.160	0.250	0.077	0.340 U	0.310 U
DAC-CR-02A	02AC-REF	0.200	0.270	0.075 U	0.390 U	0.071 U	0.510 U	0.380
DAC-HY-30	30C-REF	0.200 U	2.50	0.520	2.70	0.710	2.80	3.10
DAC-HY-35	35C-REF	0.100 U	2.90	1.30	5.10	0.500	4.10	5.40
DAC-HY-05	05CCB	0.500 U	0.230	0.070 U	0.110 U	0.069	2.80	0.110 U
DAC-HY-22	22FB	0.090 U	0.200 U	0.057 U	0.250 U	0.051 U	0.290 U	0.140 U

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	Chlorobiphenyl 7/170		Chlorobiphenyl 7/180		Chlorobiphenyl 7/187		Chlorobiphenyl 8/195		Chlorobiphenyl 9/206		PCBs, total		p,p-DDD	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	0.680	U	4.40		2.20		0.620		6.80		94.0		2.00	
DAC-HY-02	02C	0.670	U	20.0		4.10		2.00		20.0		330		5.20	
DAC-HY-03	03C	1.80		11.0		3.20		1.30		12.0		180		3.50	
DAC-HY-04	04C	1.60		12.0		3.30		1.30		11.0		220		3.80	
DAC-HY-05	05C	2.40		20.0		4.60		1.80		17.0		350		3.70	
DAC-HY-06	06C	0.940	U	31.0		5.80		3.40		44.0		510		7.40	
DAC-HY-07	07C	2.40		19.0		6.70		1.60		13.0		280		1.40	
DAC-HY-08	08C	0.067	U	42.0		9.20		5.20		66.0		790		7.20	
DAC-HY-09	09C	0.840		13.0		2.20		0.910		8.10		230		3.90	
DAC-HY-10	10C	1.20		28.0		3.00		0.620		11.0		470		7.40	
DAC-HY-11	11C	1.70		27.0		6.30		2.10		18.0		390		6.50	
DAC-HY-12	12C	2.20		27.0		6.50		2.00		16.0		400		7.80	
DAC-HY-13	13C	0.210		11.0		4.60		1.00		6.00		150		3.00	
DAC-HY-14	14C	1.10		16.0		6.70		1.40		8.30		230		3.90	
DAC-HY-15	15C	2.30		28.0		14.0		2.40		15.0		410		6.70	
DAC-HY-16	16C	6.20		29.0		12.0		2.00		15.0		600		13.0	
DAC-HY-17	17C	1.30		15.0		3.50		0.950		7.00		650		5.90	
DAC-HY-18	18C	3.00		27.0		7.40		1.60		11.0		580		7.60	
DAC-HY-19	19C	3.20		29.0		7.40		1.70		12.0		670		14.0	
DAC-HY-20	20C	2.70		24.0		10.0		1.70		13.0		600		15.0	
DAC-HY-21	21C	3.10		37.0		7.70		2.10		12.0		600		14.0	
DAC-HY-22	22C	2.50		17.0		5.00		1.10		7.00		410		7.10	
DAC-HY-23	23C	4.90		17.0		7.10		1.00		7.40		530		11.0	
DAC-HY-24	24C	5.60		16.0		6.80		1.20		8.20		470		16.0	
DAC-HY-25	25C	5.30		17.0		5.90		1.70		8.70		510		2.50	
DAC-HY-26	26C	5.00		15.0		5.80		1.80		7.50		450		2.60	
DAC-HY-27	27C	3.30		11.0		5.30		2.90		5.30		370		1.70	
DAC-HY-28	28C	4.30		11.0		5.90		3.40	J	6.40		350		21.0	
DAC-CR-02	02C-REF	0.460	U	0.160		0.066	U	0.050	U	0.110		6.00		0.140	
DAC-CR-02A	02AC-REF	0.130	U	0.210		0.100		0.059	U	0.079		8.00		0.180	
DAC-HY-30	30C-REF	1.20		2.20		2.00		0.320		2.30		64.0		1.30	
DAC-HY-35	35C-REF	0.930	U	1.70		1.10		0.087	U	0.710		63.0		1.70	
DAC-HY-05	05CCB	0.071	U	0.072	U	0.088	U	0.071	U	0.072	U	11		0.093	U
DAC-HY-22	22FB	0.052	U	0.130		0.065	U	0.049	U	0.330		5		0.098	U

**Concentrations of Semivolatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)
(Continued)**

Station	Sample	p,p-DDE		p,p-DDT	
		Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	0.220		0.074	U
DAC-HY-02	02C	0.490		6.50	
DAC-HY-03	03C	0.100		0.860	
DAC-HY-04	04C	0.830		1.50	
DAC-HY-05	05C	0.540		0.360	
DAC-HY-06	06C	0.840		2.70	
DAC-HY-07	07C	0.038	U	0.055	U
DAC-HY-08	08C	0.180		0.072	U
DAC-HY-09	09C	0.470		0.520	
DAC-HY-10	10C	0.640		2.70	
DAC-HY-11	11C	1.20		2.20	
DAC-HY-12	12C	1.80		2.90	
DAC-HY-13	13C	2.10		0.280	
DAC-HY-14	14C	1.10		0.960	
DAC-HY-15	15C	1.80		5.70	
DAC-HY-16	16C	3.10		2.90	
DAC-HY-17	17C	4.50		1.80	
DAC-HY-18	18C	4.10		5.10	
DAC-HY-19	19C	6.30		5.40	
DAC-HY-20	20C	3.90		7.80	
DAC-HY-21	21C	4.10		19.0	
DAC-HY-22	22C	2.70		2.10	
DAC-HY-23	23C	3.80		3.50	
DAC-HY-24	24C	6.90		2.50	
DAC-HY-25	25C	9.60		2.80	
DAC-HY-26	26C	13.0		2.40	
DAC-HY-27	27C	8.90		2.20	
DAC-HY-28	28C	12.0		1.90	J
DAC-CR-02	02C-REF	0.110		0.057	U
DAC-CR-02A	02AC-REF	0.210		0.140	U
DAC-HY-30	30C-REF	0.380		0.210	
DAC-HY-35	35C-REF	0.190		0.200	
DAC-HY-05	05COB	0.059	U	0.086	U
DAC-HY-22	22FB	0.052	U	0.056	U

Concentrations of Volatile Organic Compounds in Surface Sediments of the Hylebos Waterway and Reference Stations (ug/kg DW)

Station	Sample	Trichloroethene		Tetrachloroethene		Ethylbenzene		Xylenes		1,2-Dichlorobenzene		1,2,4-Trichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	1.40	U	1.40	U	1.40	U	1.40	U	2.90	U	7.10	U	1.40	U	1.40	U
DAC-HY-02	02C	1.40	U	1.40	U	1.40	U	1.40	U	2.80	U	6.90	U	1.40	U	1.40	U
DAC-HY-03	03C	1.60	U	1.60	U	1.60	U	1.60	U	3.30	U	8.20	U	1.60	U	1.60	U
DAC-HY-04	04C	1.40	U	1.40	U	1.40	U	1.40	U	2.90	U	7.20	U	1.40	U	1.40	U
DAC-HY-05	05C	1.20	U	1.20	U	1.20	U	1.20	U	2.50	U	6.20	U	1.20	U	1.20	U
DAC-HY-06	06C	1.40	U	1.40	U	1.40	U	1.40	U	2.80	U	7.00	U	1.40	U	1.40	U
DAC-HY-07	07C	2.40	U	1.40	U	1.40	U	1.40	U	2.70	U	6.80	U	1.40	U	1.40	U
DAC-HY-08	08C	1.60	U	1.60	U	1.60	U	1.60	U	3.10	U	7.80	U	1.60	U	1.60	U
DAC-HY-09	09C	1.00	U	1.00	U	1.00	U	1.00	U	2.00	U	5.00	U	1.00	U	1.00	U
DAC-HY-10	10C	1.80	U	1.80	U	1.80	U	1.80	U	3.60	U	9.00	U	1.80	U	1.80	U
DAC-HY-11	11C	1.60	U	1.60	U	1.60	U	1.60	U	3.20	U	8.00	U	1.60	U	1.60	U
DAC-HY-12	12C	1.50	U	1.50	U	1.50	U	1.50	U	3.10	U	7.70	U	1.50	U	1.50	U
DAC-HY-13	13C	1.60	U	1.60	U	1.60	U	1.60	U	3.20	U	8.10	U	1.60	U	1.60	U
DAC-HY-14	14C	1.20	U	1.20	U	1.20	U	1.20	U	2.50	U	6.20	U	1.20	U	1.20	U
DAC-HY-15	15C	1.90	U	1.90	U	1.90	U	1.90	U	3.70	U	9.30	U	1.90	U	1.90	U
DAC-HY-16	16C	2.20	U	2.20	U	2.20	U	2.20	U	4.50	U	11.0	U	2.20	U	2.20	U
DAC-HY-17	17C	1.40	U	1.40	U	1.40	U	1.40	U	2.80	U	7.00	U	1.40	U	1.40	U
DAC-HY-18	18C	1.80	U	1.80	U	1.80	U	1.80	U	3.50	U	8.90	U	1.80	U	1.80	U
DAC-HY-19	19C	1.00	U	1.00	U	1.00	U	1.00	U	2.00	U	5.00	U	1.00	U	1.00	U
DAC-HY-20	20C	2.10	U	2.10	U	2.10	U	2.10	U	4.30	U	11.0	U	2.10	U	2.10	U
DAC-HY-21	21C	1.00	U	1.00	U	1.00	U	1.00	U	2.00	U	5.00	U	1.00	U	1.00	U
DAC-HY-22	22C	1.70	U	1.70	U	1.70	U	1.70	U	3.40	U	8.50	U	1.70	U	1.70	U
DAC-HY-23	23C	1.70	U	1.70	U	1.70	U	1.70	U	3.40	U	8.50	U	1.70	U	1.70	U
DAC-HY-24	24C	2.30	U	2.30	U	2.30	U	2.30	U	4.70	U	12.0	U	2.30	U	2.30	U
DAC-HY-25	25C	2.00	U	2.00	U	2.00	U	2.00	U	4.00	U	9.90	U	2.00	U	2.00	U
DAC-HY-26	26C	2.30	U	2.30	U	2.30	U	2.30	U	4.60	U	12.0	U	2.30	U	2.30	U
DAC-HY-27	27C	1.90	U	1.90	U	1.90	U	1.90	U	3.80	U	9.50	U	1.90	U	1.90	U
DAC-HY-28	28C	2.30	U	2.30	U	2.30	U	2.30	U	4.60	U	11.0	U	2.30	U	2.30	U
DAC-CR-02	02C-REF	1.20	U	1.20	U	1.20	U	1.20	U	2.40	U	6.10	U	1.20	U	1.20	U
DAC-CR-02A	02AC-REF	1.00	U	1.00	U	1.00	U	1.00	U	2.00	U	5.00	U	1.00	U	1.00	U
DAC-HY-30	30C-REF	1.70	U	1.70	U	1.70	U	1.70	U	3.30	U	8.30	U	1.70	U	1.70	U
DAC-HY-35	35C-REF	1.60	U	1.60	U	1.60	U	1.60	U	3.20	U	8.00	U	1.60	U	1.60	U
DAC-HY-30	30C-VB	1.00	U	1.00	U	1.00	U	1.00	U	2.00	U	5.00	U	1.00	U	1.00	U

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized)

Station	Sample	2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Fluorene		Total low molecular weight PAHs		Naphthalene		Phenanthrene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	3800		1130		653		4730		2070		24800		5530		10700	
DAC-HY-02	02C	3390		2560		1060		7220		3560		43800		7220		22200	
DAC-HY-03	03C	7810	J	9900		1150		38500	J	16100	J	150000	J	11500		72900	J
DAC-HY-04	04C	4970		3490		1140		9710		4060		51500		9140		24000	
DAC-HY-05	05C	5080		2590		1270		40600		9640		105000		8630		42100	
DAC-HY-06	06C	6740		5700		984		14000		7770		67100		13500		34200	
DAC-HY-07	07C	7430		3660		1200		29700		6290		83700		11400		31400	
DAC-HY-08	08C	6600		2990		1630		10800		4860		53200		10400		22600	
DAC-HY-09	09C	5940		3120		941		14900		5450		67400		14900		28200	
DAC-HY-10	10C	5390		4260		1270		16200		6860		79100		11800		38700	
DAC-HY-11	11C	3570		1810		1000		7620		2860		36800		7140		16200	
DAC-HY-12	12C	4000		2480		1200		10000		3880		46000		9200		19200	
DAC-HY-13	13C	5290		3230		1220		6350		3600		45600		16900		14300	
DAC-HY-14	14C	4420		2310		1500		7480		3200		43700		11600		17700	
DAC-HY-15	15C	3450		2200		1250		11400		3800		47600		7840		21200	
DAC-HY-16	16C	2310		1410		737		5130	J	2120	J	29300	J	4810		15100	
DAC-HY-17	17C	921		482		232		2630		789		10900		2370		4390	
DAC-HY-18	18C	2170		1220		623		7120		2170		29200		3860		14200	
DAC-HY-19	19C	2160		3640		675		11700		3900		52600		4160		28600	
DAC-HY-20	20C	1680		1090		495		6680		1760		26600		3470		13100	
DAC-HY-21	21C	1840		1450		638		7650		2120		29500		3320		14300	
DAC-HY-22	22C	1460		1310		405		13400		2150		82400		2830		62300	
DAC-HY-23	23C	1350		1110		423		6610		1750		25500		2650		13000	
DAC-HY-24	24C	1010		1040		291		16900		2910		36000		1470		13300	
DAC-HY-25	25C	839		633		348		4270		1080		15100	J	1340		7440	J
DAC-HY-26	26C	691		461		362		2800		987		12000		1280		6090	J
DAC-HY-27	27C	878		612		372		3460		1040		14100	J	1460		7180	J
DAC-HY-28	28C	1160		711		406		4880		1420		17100	J	1340		8330	J
DAC-CR-02	02C-REF	71.4	U	83.6	U	48.9	U	42.8	U	67.3	U	671	<	133		296	
DAC-CR-02A	02AC-REF	311		257	U	149	U	189		203	U	2280	<	541		946	
DAC-HY-30	30C-REF	2810		2730		496		7850		3390		41100	J	3880		22700	J
DAC-HY-35	35C-REF	5790		5850		1350		13500		6430		85000		9940		48000	

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized) (Continued)

Station	Sample	Dibenz(a,h)anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Total high molecular weight PAHs
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.
DAC-HY-01	01C	1000		6130	4330	9330	16000	84700
DAC-HY-02	02C	2110		12800	8890	16100	31700	165000
DAC-HY-03	03C	5730		41700	21400	62500	125000	529000
DAC-HY-04	04C	2910		19400	11400	27400	51400	250000
DAC-HY-05	05C	2840		19800	11200	41100	81200	312000
DAC-HY-06	06C	3160		21200	13000	31600	50300	269000
DAC-HY-07	07C	3140		22900	12600	38900	68600	316000
DAC-HY-08	08C	2780		18100	14200	38200	38200	250000
DAC-HY-09	09C	3320		20800	12400	37600	69300	300000
DAC-HY-10	10C	4510		30400	17600	53900	93100	414000
DAC-HY-11	11C	2710		16700	11400	29000	39500	226000
DAC-HY-12	12C	3760		23600	14000	40000	44000	279000
DAC-HY-13	13C	1270		7940	5820	17500	29600	133000
DAC-HY-14	14C	3060		19000	12900	32000	40800	246000
DAC-HY-15	15C	4310		21600	17600	43100	47100	300000
DAC-HY-16	16C	3530		17600	14700	28200	31100	223000
DAC-HY-17	17C	2110		12700	10100	18900	13200	151000
DAC-HY-18	18C	4150		21400	18400	38600	41500	285000
DAC-HY-19	19C	5190		28600	24400	57100	57100	402000
DAC-HY-20	20C	4700		22500	21500	44600	44600	315000
DAC-HY-21	21C	5360		25500	22400	45900	43400	338000
DAC-HY-22	22C	4670		21800	18400	46700	90300	378000
DAC-HY-23	23C	5560		29100	23000	50300	42300	354000
DAC-HY-24	24C	5810		30800	22200	63200	104000	488000
DAC-HY-25	25C	4430		20600	15800	33200	31600	262000
DAC-HY-26	26C	3950		16400	14300	24700	18100	204000
DAC-HY-27	27C	3990		18400	14600	26100	29300	228000
DAC-HY-28	28C	3660		17300	13000	32500	44700	241000
DAC-CR-02	02C-REF	73.4	U	56.1	U	214	622	1780
DAC-CR-02A	02AC-REF	149	U	473	662	865	2030	8390
DAC-HY-30	30C-REF	1780		10700	7020	14000	27700	132000
DAC-HY-35	35C-REF	1990		14600	8770	21600	45600	200000

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized) (Continued)

Station	Sample	Indeno(1,2,3-c,d)pyrene	Pyrene	Total benzofluoranthenes	1,2-Dichlorobenzene	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
		Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
		Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.
DAC-HY-01	01C	4070	21300	16000	100	460	80.0	573
DAC-HY-02	02C	8890	42200	31100	228	1610	172	1060
DAC-HY-03	03C	22900	99000	99000	286	833	115	3180
DAC-HY-04	04C	11400	57100	49700	229	1260	171	2690
DAC-HY-05	05C	11200	66000	50800	239	1570	198	1570
DAC-HY-06	06C	13000	67400	48200	518	5030	570	4200
DAC-HY-07	07C	13100	74300	53100	280	2570	297	1430
DAC-HY-08	08C	12200	52100	55600	347	2570	382	1220
DAC-HY-09	09C	12400	64400	54500	421	2920	485	1980
DAC-HY-10	10C	18100	78400	83300	637	5390	686	2450
DAC-HY-11	11C	10000	47600	52400	281	2000	300	1330
DAC-HY-12	12C	14000	52000	64000	212	1400	212	1760
DAC-HY-13	13C	4810	33300	23300	74.1	392	84.7	386
DAC-HY-14	14C	11600	53100	57100	163	1020	170	816
DAC-HY-15	15C	16100	58800	70600	122	745	118	667
DAC-HY-16	16C	12800	44900	57700	119	705	131	641
DAC-HY-17	17C	7890	41700	39000	87.7	614	101	250
DAC-HY-18	18C	15700	62300	68200	136	890	157	623
DAC-HY-19	19C	20800	98700	88300	174	1040	182	571
DAC-HY-20	20C	17800	59400	81700	89.1	619	99	421
DAC-HY-21	21C	19900	71400	86700	168	944	171	587
DAC-HY-22	22C	16800	84100	74800	140	654	128	436
DAC-HY-23	23C	19800	60800	103000	90.0	397	74.1	397
DAC-HY-24	24C	18800	97400	113000	51.3	205	51.3	274
DAC-HY-25	25C	14700	53800	75900	53.8	222	45.9	253
DAC-HY-26	26C	13200	41100	64100	39.5	181	37.8	197
DAC-HY-27	27C	13000	47900	66500	53.2	205	42.6	266
DAC-HY-28	28C	12200	42700	61000	40.6	163	38.6	264
DAC-CR-02	02C-REF	73.4	499	112	30.6	27.5	26.5	122
DAC-CR-02A	02AC-REF	500	1620	1620	54.0	43.2	51.4	249
DAC-HY-30	30C-REF	7440	31000	21900	66.1	103	41.3	413
DAC-HY-35	35C-REF	8190	52000	26900	105	117	40.4	450

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized) (Continued)

Station	Sample	Hexachlorobutadiene	Di-n-octyl phthalate	Bis(2-ethylhexyl)phthalate	Butylbenzyl phthalate	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Hexachlorobenzene					
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.					
DAC-HY-01	01C	933		6270	J	800	J	220	UJ	160	J	4800	J	733
DAC-HY-02	02C	2720		4940	J	483	UJ	156	UJ	128	J	344	UJ	1110
DAC-HY-03	03C	1300		24500	J	1820	J	115	UJ	411	J	1560	UJ	1150
DAC-HY-04	04C	2110		14300	J	1140	J	149	UJ	297	J	800	UJ	1260
DAC-HY-05	05C	3810		27900	J	761	J	152	UJ	452	J	3860	J	2080
DAC-HY-06	06C	7770		7250	J	503	J	130	UJ	249	J	321	UJ	3260
DAC-HY-07	07C	14900		15400	J	503	UJ	149	UJ	800	J	743	UJ	3660
DAC-HY-08	08C	8330		5560	J	451		146	U	181		326	U	1880
DAC-HY-09	09C	10900		54500	J	1090		124	U	475		1490	U	5940
DAC-HY-10	10C	5880		22500	J	2250		250	U	2300		1230	U	3140
DAC-HY-11	11C	3140		14800	J	952		186	U	524		667	U	1900
DAC-HY-12	12C	2480		13200	J	1440		180	U	480		440	U	1800
DAC-HY-13	13C	847		5290	J	270	U	122	U	365		291	U	635
DAC-HY-14	14C	1560		12200	J	1290		204	U	422		578	U	1090
DAC-HY-15	15C	980		20400	J	2470		169	UJ	1290	J	824	UJ	1100
DAC-HY-16	16C	801		18600	J	2980		196	U	1220		833	U	737
DAC-HY-17	17C	386		3110	UJ	355	UJ	83.3	UJ	42.1	J	259	UJ	434
DAC-HY-18	18C	712		16600	J	1990	J	97.9	UJ	950	J	593	UJ	623
DAC-HY-19	19C	701		13000	J	1380	J	77.9	UJ	779	J	390	UJ	545
DAC-HY-20	20C	470		18800	J	2970		101	UJ	1360	J	842	UJ	569
DAC-HY-21	21C	612		19600	J	2090	J	163	UJ	1660	J	765	UJ	740
DAC-HY-22	22C	530		18700	J	2180	J	16.2	UJ	592	J	748	UJ	374
DAC-HY-23	23C	317		24300	J	15300		90.0	UJ	952	J	741	UJ	291
DAC-HY-24	24C	205		23900	J	2560	J	142	UJ	1280	J	1350	UJ	205
DAC-HY-25	25C	152		15800	J	1390		52.2	UJ	759		364	UJ	206
DAC-HY-26	26C	109		15100	J	905		82.2	UJ	888		280	UJ	197
DAC-HY-27	27C	152		31900	J	1780		55.8	UJ	1600		532	UJ	215
DAC-HY-28	28C	138		24400	J	2030		36.6	UJ	1360		467	UJ	177
DAC-CR-02	02C-REF	112	U	805	U	98.9	UJ	214	UJ	21.4	J	275	UJ	11.2
DAC-CR-02A	02AC-REF	203	U	2430	UJ	257	U	338	U	56.8	UJ	730	UJ	24.3
DAC-HY-30	30C-REF	136		6200	J	537		132	UJ	826		455	UJ	190
DAC-HY-35	35C-REF	187		5670	J	333	UJ	158	UJ	322	J	398	UJ	251

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized) (Continued)

Station	Sample	Chlorobiphenyl 10/209	Chlorobiphenyl 3/18	Chlorobiphenyl 3/28	Chlorobiphenyl 4/44	Chlorobiphenyl 4/52	Chlorobiphenyl 4/66	Chlorobiphenyl 5/101
		Conc.	Conc.	Qual.	Conc.	Conc.	Conc.	Conc.
		Qual.	Qual.	Qual.	Qual.	Qual.	Qual.	Qual.
DAC-HY-01	01C	800	140	U	86.7	53.3	6.67	133
DAC-HY-02	02C	1940	300	U	172	250	333	311
DAC-HY-03	03C	1300	234	U	161	109	52.1	193
DAC-HY-04	04C	857	326	U	171	177	229	286
DAC-HY-05	05C	2030	315	U	178	157	203	401
DAC-HY-06	06C	2950	301	U	332	363	622	321
DAC-HY-07	07C	1660	686	U	251	177	400	177
DAC-HY-08	08C	4860	382	U	347	177	347	240
DAC-HY-09	09C	594	1090	U	129	178	446	84.2
DAC-HY-10	10C	784	735	U	118	466	441	2.94
DAC-HY-11	11C	1190	471	U	224	200	238	257
DAC-HY-12	12C	760	400	U	176	184	240	332
DAC-HY-13	13C	317	180	U	84.7	143	106	254
DAC-HY-14	14C	680	279	U	272	306	136	592
DAC-HY-15	15C	863	149	U	271	349	3.92	706
DAC-HY-16	16C	833	151	U	272	295	256	897
DAC-HY-17	17C	417	281	U	430	1360	4.39	2190
DAC-HY-18	18C	653	326	U	258	475	2.97	979
DAC-HY-19	19C	494	364	U	312	519	156	1040
DAC-HY-20	20C	470	146	U	248	396	2.48	965
DAC-HY-21	21C	561	536	U	281	408	179	893
DAC-HY-22	22C	343	268	U	224	343	3.12	748
DAC-HY-23	23C	344	230	U	317	450	344	873
DAC-HY-24	24C	159	101	U	188	239	6.84	547
DAC-HY-25	25C	285	109	U	206	222	190	459
DAC-HY-26	26C	280	67.4	U	214	247	164	428
DAC-HY-27	27C	319	98.4	U	226	319	213	559
DAC-HY-28	28C	203	81.3	U	167	224	142	386
DAC-CR-02	02C-REF	5.61	19.4	U	54.0	18.4	8.15	20.4
DAC-CR-02A	02AC-REF	20.3	37.8	U	75.7	28.4	27.0	36.5
DAC-HY-30	30C-REF	161	95.0	U	82.6	86.8	8.26	103
DAC-HY-35	35C-REF	87.7	152	U	70.2	99.4	5.85	170

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized) (Continued)

Station	Sample	Chlorobiphenyl 5/105	Chlorobiphenyl 5/118	Chlorobiphenyl 6/128	Chlorobiphenyl 6/138	Chlorobiphenyl 6/153	Chlorobiphenyl 7/170	Chlorobiphenyl 7/180
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.
DAC-HY-01	01C	66.7	360	39.3	193	233	45.3	293
DAC-HY-02	02C	322	1720	83.3	667	439	37.2	1110
DAC-HY-03	03C	83.3	120	62.5	307	323	93.8	573
DAC-HY-04	04C	286	1260	80.0	383	406	91.4	686
DAC-HY-05	05C	188	1320	188	609	761	122	1020
DAC-HY-06	06C	383	2120	2.49	570	451	48.7	1610
DAC-HY-07	07C	371	1140	2.40	480	4.00	137	1090
DAC-HY-08	08C	163	1740	2.33	319	521	2.33	1460
DAC-HY-09	09C	163	1240	1.53	282	144	41.6	644
DAC-HY-10	10C	461	2650	167	637	2700	58.8	1370
DAC-HY-11	11C	367	2240	36.2	667	619	81.0	1290
DAC-HY-12	12C	320	1800	156	760	560	88.0	1080
DAC-HY-13	13C	148	688	68.8	323	487	11.1	582
DAC-HY-14	14C	320	510	224	952	1020	74.8	1090
DAC-HY-15	15C	2.94	941	212	1100	941	90.2	1100
DAC-HY-16	16C	353	897	276	1190	1960	199	929
DAC-HY-17	17C	877	2760	439	2020	2060	57.0	658
DAC-HY-18	18C	386	1040	237	1280	1280	89.0	801
DAC-HY-19	19C	416	1040	286	1250	1250	83.1	753
DAC-HY-20	20C	1.83	1240	297	1290	990	66.8	594
DAC-HY-21	21C	689	1150	1.79	1150	3.06	79.1	944
DAC-HY-22	22C	274	1030	218	810	935	77.9	530
DAC-HY-23	23C	2.25	926	262	1140	847	130	450
DAC-HY-24	24C	1.88	615	118	667	564	95.7	274
DAC-HY-25	25C	146	411	106	554	601	83.9	269
DAC-HY-26	26C	130	312	93.8	526	592	82.2	247
DAC-HY-27	27C	181	638	136	665	745	87.8	293
DAC-HY-28	28C	142	305	95.5	488	528	87.4	224
DAC-CR-02	02C-REF	16.3	25.5	7.85	34.7	31.6	46.9	16.3
DAC-CR-02A	02AC-REF	10.1	52.7	9.59	68.9	51.4	17.6	23.4
DAC-HY-30	30C-REF	21.5	112	29.3	116	128	49.6	90.9
DAC-HY-35	35C-REF	76.0	298	29.2	240	316	54.4	99.4

Concentrations of Semi-Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized) (Continued)

Station	Sample	Chlorobiphenyl 7/187		Chlorobiphenyl 8/195		Chlorobiphenyl 9/206		PCBs, total	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	147		41.3		453		6270	
DAC-HY-02	02C	228		111		1110		18300	
DAC-HY-03	03C	167		67.7		625		9380	
DAC-HY-04	04C	189		74.3		629		12600	
DAC-HY-05	05C	234		91.4		863		17800	
DAC-HY-06	06C	301		176		2280		26400	
DAC-HY-07	07C	383		91.4		743		16000	
DAC-HY-08	08C	319		181		2290		27400	
DAC-HY-09	09C	109		45.0		401		11400	
DAC-HY-10	10C	147		30.4		539		23000	
DAC-HY-11	11C	300		100		857		18600	
DAC-HY-12	12C	260		80.0		640		16000	
DAC-HY-13	13C	243		52.9		317		7940	
DAC-HY-14	14C	456		95.2		565		15600	
DAC-HY-15	15C	549		94.1		568		16100	
DAC-HY-16	16C	385		64.1		481		19200	
DAC-HY-17	17C	154		41.7		307		28500	
DAC-HY-18	18C	220		47.5		326		17200	
DAC-HY-19	19C	192		44.2		312		17400	
DAC-HY-20	20C	248		42.1		322		14900	
DAC-HY-21	21C	196		53.6		306		15300	
DAC-HY-22	22C	156		34.3		218		12800	
DAC-HY-23	23C	188		26.5		196		14000	
DAC-HY-24	24C	116		20.5		140		8030	
DAC-HY-25	25C	93.4		26.9		138		8070	
DAC-HY-26	26C	95.4		29.6		123		7400	
DAC-HY-27	27C	141		77.1		141		9840	
DAC-HY-28	28C	120		69.1	J	130		7110	
DAC-CR-02	02C-REF	6.73	U	5.10	U	11.2		612	
DAC-CR-02A	02AC-REF	13.5		7.97	U	10.7		1080	
DAC-HY-30	30C-REF	82.6		13.2		95.0		2640	
DAC-HY-35	35C-REF	64.3		5.09	U	41.5		3680	

Concentrations of Volatile Organic Compounds in Surface Sediments of Hylebos Waterway and Reference Stations (Organic Carbon Normalized)

Station	Sample	Trichloroethene		Tetrachloroethene		Ethylbenzene		Xylenes		1,2-Dichlorobenzene		1,2,4-Trichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene	
		Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
DAC-HY-01	01C	93.3	U	93.3	U	93.3	U	193	U	93.3	U	473	U	93.3	U	93.3	U
DAC-HY-02	02C	77.8	U	77.8	U	77.8	U	156	U	77.8	U	383	U	77.8	U	77.8	U
DAC-HY-03	03C	83.3	U	83.3	U	83.3	U	172	U	83.3	U	427	U	83.3	U	83.3	U
DAC-HY-04	04C	80.0	U	80.0	U	80.0	U	166	U	80.0	U	411	U	80.0	U	80.0	U
DAC-HY-05	05C	60.9	U	60.9	U	60.9	U	127	U	60.9	U	315	U	60.9	U	60.9	U
DAC-HY-06	06C	72.5	U	72.5	U	72.5	U	145	U	72.5	U	363	U	72.5	U	72.5	U
DAC-HY-07	07C	137	U	80.0	U	80.0	U	154	U	80.0	U	389	U	80.0	U	80.0	U
DAC-HY-08	08C	55.6	U	55.6	U	55.6	U	108	U	55.6	U	271	U	55.6	U	55.6	U
DAC-HY-09	09C	49.5	U	49.5	U	49.5	U	99.0	U	49.5	U	248	U	49.5	U	49.5	U
DAC-HY-10	10C	88.2	U	88.2	U	88.2	U	176	U	88.2	U	441	U	88.2	U	88.2	U
DAC-HY-11	11C	76.2	U	76.2	U	76.2	U	152	U	76.2	U	381	U	76.2	U	76.2	U
DAC-HY-12	12C	60.0	U	60.0	U	60.0	U	124	U	60.0	U	308	U	60.0	U	60.0	U
DAC-HY-13	13C	84.7	U	84.7	U	84.7	U	169	U	84.7	U	429	U	84.7	U	84.7	U
DAC-HY-14	14C	81.6	U	81.6	U	81.6	U	170	U	81.6	U	422	U	81.6	U	81.6	U
DAC-HY-15	15C	74.5	U	74.5	U	74.5	U	145	U	74.5	U	365	U	74.5	U	74.5	U
DAC-HY-16	16C	70.5	U	70.5	U	70.5	U	144	U	70.5	U	353	U	70.5	U	70.5	U
DAC-HY-17	17C	61.4	U	61.4	U	61.4	U	123	U	61.4	U	307	U	61.4	U	61.4	U
DAC-HY-18	18C	53.4	U	53.4	U	53.4	U	104	U	53.4	U	264	U	53.4	U	53.4	U
DAC-HY-19	19C	26.0	U	26.0	U	26.0	U	52.0	U	26.0	U	130	U	26.0	U	26.0	U
DAC-HY-20	20C	52.0	U	52.0	U	52.0	U	106	U	52.0	U	272	U	52.0	U	52.0	U
DAC-HY-21	21C	25.5	U	25.5	U	25.5	U	51.0	U	25.5	U	128	U	25.5	U	25.5	U
DAC-HY-22	22C	53.0	U	53.0	U	53.0	U	106	U	53.0	U	265	U	53.0	U	53.0	U
DAC-HY-23	23C	45.0	U	45.0	U	45.0	U	90.0	U	45.0	U	225	U	45.0	U	45.0	U
DAC-HY-24	24C	39.3	U	39.3	U	39.3	U	80.3	U	39.3	U	205	U	39.3	U	39.3	U
DAC-HY-25	25C	31.6	U	31.6	U	31.6	U	63.3	U	31.6	U	157	U	31.6	U	31.6	U
DAC-HY-26	26C	37.8	U	37.8	U	37.8	U	75.7	U	37.8	U	197	U	37.8	U	37.8	U
DAC-HY-27	27C	50.5	U	50.5	U	50.5	U	101	U	50.5	U	253	U	50.5	U	50.5	U
DAC-HY-28	28C	46.8	U	46.8	U	46.8	U	93.5	U	46.8	U	224	U	46.8	U	46.8	U
DAC-CR-02	02C-REF	122	U	122	U	122	U	245	U	122	U	622	U	122	U	122	U
DAC-CR-02A	02AC-REF	135	U	135	U	135	U	270	U	135	U	676	U	135	U	135	U
DAC-HY-30	30C-REF	70.2	U	70.2	U	70.2	U	136	U	70.2	U	343	U	70.2	U	70.2	U
DAC-HY-35	35C-REF	93.6	U	93.6	U	93.6	U	187	U	93.6	U	468	U	93.6	U	93.6	U

Ratio of metal concentrations as analyzed by total digestion and strong acid digestion methods

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
CR-02	02C-REF	ANTIMONY	TD	1.22	U	SA	0.995	U	1.23
CR-02A	02AC-REF	ANTIMONY	TD	1.22	U	SA	0.995	U	1.23
HY-01	01C	ANTIMONY	TD	1.73		SA	0.995	U	1.74
HY-02	02C	ANTIMONY	TD	5.81		SA	0.995	U	5.84
HY-03	03C	ANTIMONY	TD	3.4		SA	0.995	U	3.42
HY-04	04C	ANTIMONY	TD	4.4		SA	0.995	U	4.42
HY-05	05C	ANTIMONY	TD	3.1		SA	0.995	U	3.12
HY-06	06C	ANTIMONY	TD	3.05		SA	0.995	U	3.07
HY-07	07C	ANTIMONY	TD	2.15		SA	0.995	U	2.16
HY-08	08C	ANTIMONY	TD	3.44		SA	0.995	U	3.46
HY-09	09C	ANTIMONY	TD	2.87		SA	0.995	U	2.88
HY-10	10C	ANTIMONY	TD	4.59		SA	0.995	U	4.61
HY-11	11C	ANTIMONY	TD	3.28		SA	0.995	U	3.3
HY-12	12C	ANTIMONY	TD	3.84		SA	0.995	U	3.86
HY-13	13C	ANTIMONY	TD	3.69		SA	0.995	U	3.71
HY-14	14C	ANTIMONY	TD	15.2		SA	1.12		13.57
HY-15	15C	ANTIMONY	TD	10.9		SA	0.995	U	10.95
HY-16	16C	ANTIMONY	TD	7.88		SA	0.995	U	7.92
HY-17	17C	ANTIMONY	TD	4.57		SA	2.07		2.21
HY-18	18C	ANTIMONY	TD	10.4		SA	1.46		7.12
HY-19	19C	ANTIMONY	TD	14.1		SA	1.45		9.72
HY-20	20C	ANTIMONY	TD	10.6		SA	0.995	U	10.65
HY-21	21C	ANTIMONY	TD	16.5		SA	1.17		14.1
HY-22	22C	ANTIMONY	TD	7.13		SA	1.12		6.37
HY-23	23C	ANTIMONY	TD	16.5		SA	1.36		12.13
HY-24	24C	ANTIMONY	TD	11.6		SA	1.83		6.34
HY-25	25C	ANTIMONY	TD	13.8		SA	2.27		6.08
HY-26	26C	ANTIMONY	TD	14.5		SA	1.54		9.42
HY-27	27C	ANTIMONY	TD	6.77		SA	0.995	U	6.8
HY-28	28C	ANTIMONY	TD	8.59		SA	0.995	U	8.63
HY-30	30C-REF	ANTIMONY	TD	1.22	U	SA	0.995	U	1.23
								Average:	5.85
CR-02	02C-REF	ARSENIC	TD	3.06		SA	13	U	0.24
CR-02A	02AC-REF	ARSENIC	TD	1.87		SA	13	U	0.14
HY-01	01C	ARSENIC	TD	5.45		SA	13	U	0.42
HY-02	02C	ARSENIC	TD	15.2		SA	16.6		0.92
HY-03	03C	ARSENIC	TD	12.9		SA	14.2		0.91
HY-04	04C	ARSENIC	TD	10.7		SA	13	U	0.82
HY-05	05C	ARSENIC	TD	12.2		SA	13	U	0.94
HY-06	06C	ARSENIC	TD	15		SA	20.7		0.72
HY-07	07C	ARSENIC	TD	10.8		SA	13	U	0.83
HY-08	08C	ARSENIC	TD	17.3		SA	27.6		0.63
HY-09	09C	ARSENIC	TD	11.3		SA	18.6		0.61
HY-10	10C	ARSENIC	TD	8.64		SA	13	U	0.66
HY-11	11C	ARSENIC	TD	15.8		SA	13.9		1.14

Ratio of metal concentrations as analyzed by total digestion and strong acid digestion methods (continued)

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
HY-12	12C	ARSENIC	TD	16		SA	21.4		0.75
HY-13	13C	ARSENIC	TD	7.88		SA	21.6		0.36
HY-14	14C	ARSENIC	TD	21.1		SA	14.9		1.42
HY-15	15C	ARSENIC	TD	15.8		SA	34.6		0.46
HY-16	16C	ARSENIC	TD	34.9		SA	34.6		1.01
HY-17	17C	ARSENIC	TD	9.92		SA	22.4		0.44
HY-18	18C	ARSENIC	TD	17.5		SA	41.1		0.43
HY-19	19C	ARSENIC	TD	40.1		SA	42		0.95
HY-20	20C	ARSENIC	TD	45.9		SA	48.9		0.94
HY-21	21C	ARSENIC	TD	32.2		SA	51.5		0.63
HY-22	22C	ARSENIC	TD	30.9		SA	47.2		0.65
HY-23	23C	ARSENIC	TD	22.9		SA	52.6		0.44
HY-24	24C	ARSENIC	TD	120		SA	54.5		2.2
HY-25	25C	ARSENIC	TD	61.4		SA	63.4		0.97
HY-26	26C	ARSENIC	TD	55.1		SA	54.5		1.01
HY-27	27C	ARSENIC	TD	97.6		SA	40.5		2.41
HY-28	28C	ARSENIC	TD	37		SA	38.4		0.96
HY-30	30C-REF	ARSENIC	TD	6.41		SA	13 U		0.49
							Average:		0.82
CR-02	02C-REF	CADMIUM	TD	0.348		SA	0.156		2.23
CR-02A	02AC-REF	CADMIUM	TD	0.18		SA	0.311		0.58
HY-01	01C	CADMIUM	TD	0.216 U		SA	0.184		1.17
HY-02	02C	CADMIUM	TD	0.303 U		SA	0.255		1.19
HY-03	03C	CADMIUM	TD	0.296 U		SA	0.261		1.13
HY-04	04C	CADMIUM	TD	0.298 U		SA	0.281		1.06
HY-05	05C	CADMIUM	TD	0.301 U		SA	0.234		1.29
HY-06	06C	CADMIUM	TD	0.405 U		SA	0.331		1.22
HY-07	07C	CADMIUM	TD	0.323 U		SA	0.206		1.57
HY-08	08C	CADMIUM	TD	0.456		SA	0.4		1.14
HY-09	09C	CADMIUM	TD	0.318		SA	0.292		1.09
HY-10	10C	CADMIUM	TD	0.339		SA	0.343		0.99
HY-11	11C	CADMIUM	TD	0.382		SA	0.335		1.14
HY-12	12C	CADMIUM	TD	0.356		SA	0.308		1.16
HY-13	13C	CADMIUM	TD	0.241		SA	0.23		1.05
HY-14	14C	CADMIUM	TD	0.269		SA	0.236		1.14
HY-15	15C	CADMIUM	TD	0.383		SA	0.447		0.86
HY-16	16C	CADMIUM	TD	0.477		SA	0.56		0.85
HY-17	17C	CADMIUM	TD	0.202		SA	0.202		1
HY-18	18C	CADMIUM	TD	0.474		SA	0.618		0.77
HY-19	19C	CADMIUM	TD	0.529		SA	0.676		0.78
HY-20	20C	CADMIUM	TD	0.674		SA	0.762		0.88
HY-21	21C	CADMIUM	TD	0.703		SA	0.83		0.85
HY-22	22C	CADMIUM	TD	0.492		SA	0.685		0.72
HY-23	23C	CADMIUM	TD	1.07		SA	1.14		0.94
HY-24	24C	CADMIUM	TD	1.95		SA	1.18		1.65
HY-25	25C	CADMIUM	TD	1.36		SA	1.35		1.01
HY-26	26C	CADMIUM	TD	0.981		SA	1.05		0.93

Ratio of metal concentrations as analyzed by total digestion and strong acid digestion methods (continued)

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
HY-27	27C	CADMIUM	TD	0.633		SA	0.694		0.91
HY-28	28C	CADMIUM	TD	0.803		SA	1.5 U		0.54
HY-30	30C-REF	CADMIUM	TD	0.295		SA	0.207 U		1.43
Average:									1.07
CR-02	02C-REF	CHROMIUM	TD	61.4		SA	25.8		2.38
CR-02A	02AC-REF	CHROMIUM	TD	45.8		SA	31.4		1.46
HY-01	01C	CHROMIUM	TD	29		SA	22.7		1.28
HY-02	02C	CHROMIUM	TD	31.5		SA	30.9		1.02
HY-03	03C	CHROMIUM	TD	31.6		SA	32.4		0.98
HY-04	04C	CHROMIUM	TD	31.4		SA	28		1.12
HY-05	05C	CHROMIUM	TD	31.2		SA	29.3		1.06
HY-06	06C	CHROMIUM	TD	31		SA	35.9		0.86
HY-07	07C	CHROMIUM	TD	29.1		SA	28.2		1.03
HY-08	08C	CHROMIUM	TD	30.5		SA	32.5		0.94
HY-09	09C	CHROMIUM	TD	30.5		SA	27.6		1.11
HY-10	10C	CHROMIUM	TD	91.7		SA	32.8		2.8
HY-11	11C	CHROMIUM	TD	29.2		SA	28.3		1.03
HY-12	12C	CHROMIUM	TD	28.7		SA	27.8		1.03
HY-13	13C	CHROMIUM	TD	29.2		SA	28.9		1.01
HY-14	14C	CHROMIUM	TD	35.2		SA	23.1		1.52
HY-15	15C	CHROMIUM	TD	35		SA	36.6		0.96
HY-16	16C	CHROMIUM	TD	37.1		SA	37.3		0.99
HY-17	17C	CHROMIUM	TD	28.7		SA	20.3		1.41
HY-18	18C	CHROMIUM	TD	34.8		SA	33.7		1.03
HY-19	19C	CHROMIUM	TD	33.6		SA	32.6		1.03
HY-20	20C	CHROMIUM	TD	36.2		SA	49.3		0.73
HY-21	21C	CHROMIUM	TD	39.3		SA	36.4		1.08
HY-22	22C	CHROMIUM	TD	34.4		SA	30.8		1.12
HY-23	23C	CHROMIUM	TD	39.8		SA	34.5		1.15
HY-24	24C	CHROMIUM	TD	39.4		SA	45.6		0.86
HY-25	25C	CHROMIUM	TD	40.7		SA	48.8		0.83
HY-26	26C	CHROMIUM	TD	40.4		SA	50.2		0.8
HY-27	27C	CHROMIUM	TD	33.7		SA	40.7		0.83
HY-28	28C	CHROMIUM	TD	38.8		SA	43.6		0.89
HY-30	30C-REF	CHROMIUM	TD	27.7		SA	28.3		0.98
Average:									1.14
CR-02	02C-REF	COPPER	TD	16		SA	12.2		1.31
CR-02A	02AC-REF	COPPER	TD	9.8		SA	18.7		0.52
HY-01	01C	COPPER	TD	53.6		SA	48.5		1.11
HY-02	02C	COPPER	TD	90.7		SA	76.4		1.19
HY-03	03C	COPPER	TD	159		SA	152.2		1.04
HY-04	04C	COPPER	TD	121		SA	98		1.23
HY-05	05C	COPPER	TD	80.8		SA	80.2		1.01
HY-06	06C	COPPER	TD	79.1		SA	80.2		0.99
HY-07	07C	COPPER	TD	84.4		SA	76.1		1.11
HY-08	08C	COPPER	TD	94.7		SA	82.3		1.15

Ratio of metal concentrations as analyzed by total digestion and strong acid digestion methods (continued)

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
HY-09	09C	COPPER	TD	104		SA	84		1.24
HY-10	10C	COPPER	TD	113		SA	110.4		1.02
HY-11	11C	COPPER	TD	94.5		SA	83.7		1.13
HY-12	12C	COPPER	TD	103		SA	89.7		1.15
HY-13	13C	COPPER	TD	60.7		SA	59.2		1.03
HY-14	14C	COPPER	TD	77.6		SA	71.3		1.09
HY-15	15C	COPPER	TD	132		SA	114.6		1.15
HY-16	16C	COPPER	TD	136		SA	125.1		1.09
HY-17	17C	COPPER	TD	53.8		SA	43.4		1.24
HY-18	18C	COPPER	TD	130		SA	121.1		1.07
HY-19	19C	COPPER	TD	135		SA	119.7		1.13
HY-20	20C	COPPER	TD	160		SA	154.6		1.03
HY-21	21C	COPPER	TD	161		SA	146.6		1.1
HY-22	22C	COPPER	TD	101		SA	114.2		0.88
HY-23	23C	COPPER	TD	190		SA	165.5		1.15
HY-24	24C	COPPER	TD	154		SA	151.3		1.02
HY-25	25C	COPPER	TD	230		SA	183.9		1.25
HY-26	26C	COPPER	TD	183		SA	180.7		1.01
HY-27	27C	COPPER	TD	127		SA	114.7		1.11
HY-28	28C	COPPER	TD	141		SA	139.7		1.01
HY-30	30C-REF	COPPER	TD	71.4		SA	65.7		1.09
								Average:	1.09
CR-02	02C-REF	LEAD	TD	10.4		SA	4.02		2.59
CR-02A	02AC-REF	LEAD	TD	8.49		SA	6.09		1.39
HY-01	01C	LEAD	TD	23.4		SA	21.5		1.09
HY-02	02C	LEAD	TD	44.9		SA	58.9		0.76
HY-03	03C	LEAD	TD	50.3		SA	72.3		0.7
HY-04	04C	LEAD	TD	63		SA	47.4		1.33
HY-05	05C	LEAD	TD	40.8		SA	54		0.76
HY-06	06C	LEAD	TD	73.9		SA	68.6		1.08
HY-07	07C	LEAD	TD	56.4		SA	58.5		0.96
HY-08	08C	LEAD	TD	86.4		SA	82.5		1.05
HY-09	09C	LEAD	TD	64.2		SA	66.3		0.97
HY-10	10C	LEAD	TD	158		SA	176		0.9
HY-11	11C	LEAD	TD	59.6		SA	57.9		1.03
HY-12	12C	LEAD	TD	65.1		SA	68.5		0.95
HY-13	13C	LEAD	TD	30.7		SA	33		0.93
HY-14	14C	LEAD	TD	55.3		SA	40.7		1.36
HY-15	15C	LEAD	TD	89.3		SA	75.4		1.18
HY-16	16C	LEAD	TD	83.1		SA	64.4		1.29
HY-17	17C	LEAD	TD	207		SA	35.2		5.88
HY-18	18C	LEAD	TD	87.9		SA	72.3		1.22
HY-19	19C	LEAD	TD	95.5		SA	74.1		1.29
HY-20	20C	LEAD	TD	105		SA	90.8		1.16
HY-21	21C	LEAD	TD	103		SA	89.1		1.16
HY-22	22C	LEAD	TD	57		SA	68.9		0.83
HY-23	23C	LEAD	TD	105		SA	84.2		1.25

Ratio of metal concentrations as analyzed by total digestion and strong acid digestion methods (continued)

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
HY-24	24C	LEAD	TD	114		SA	77.9		1.46
HY-25	25C	LEAD	TD	122		SA	83.2		1.47
HY-26	26C	LEAD	TD	129		SA	91		1.42
HY-27	27C	LEAD	TD	64		SA	52.1		1.23
HY-28	28C	LEAD	TD	73.6		SA	65		1.13
HY-30	30C-REF	LEAD	TD	28.7		SA	27.3		1.05

Average: 1.32

CR-02	02C-REF	MERCURY	TD	0.038 UJ		SA	0.084 UJ		0.45
CR-02A	02AC-REF	MERCURY	TD	0.024 UJ		SA	0.113 UJ		0.21
HY-01	01C	MERCURY	TD	0.082 UJ		SA	0.222 UJ		0.37
HY-02	02C	MERCURY	TD	0.221 UJ		SA	0.304 UJ		0.73
HY-03	03C	MERCURY	TD	0.16		SA	0.387 UJ		0.41
HY-04	04C	MERCURY	TD	0.195 UJ		SA	0.255 UJ		0.76
HY-05	05C	MERCURY	TD	0.2 UJ		SA	0.268 UJ		0.75
HY-06	06C	MERCURY	TD	0.281 UJ		SA	0.365 UJ		0.77
HY-07	07C	MERCURY	TD	0.209 UJ		SA	0.241 UJ		0.87
HY-08	08C	MERCURY	TD	0.303 UJ		SA	0.487 UJ		0.62
HY-09	09C	MERCURY	TD	0.206 UJ		SA	0.317 UJ		0.65
HY-10	10C	MERCURY	TD	0.239 UJ		SA	0.395 UJ		0.61
HY-11	11C	MERCURY	TD	0.25 U		SA	0.348 U		0.72
HY-12	12C	MERCURY	TD	0.248 UJ		SA	0.392 UJ		0.63
HY-13	13C	MERCURY	TD	0.116 UJ		SA	0.239 UJ		0.49
HY-14	14C	MERCURY	TD	0.152 UJ		SA	0.242 UJ		0.63
HY-15	15C	MERCURY	TD	0.358 UJ		SA	0.459 UJ		0.78
HY-16	16C	MERCURY	TD	0.393 UJ		SA	0.528 UJ		0.74
HY-17	17C	MERCURY	TD	0.174 UJ		SA	0.207 UJ		0.84
HY-18	18C	MERCURY	TD	0.366 UJ		SA	0.558 UJ		0.66
HY-19	19C	MERCURY	TD	2.7 UJ		SA	0.595 UJ		4.54
HY-20	20C	MERCURY	TD	0.569 UJ		SA	0.759 UJ		0.75
HY-21	21C	MERCURY	TD	0.774 UJ		SA	0.801 UJ		0.97
HY-22	22C	MERCURY	TD	0.357 UJ		SA	0.605 UJ		0.59
HY-23	23C	MERCURY	TD	0.414 UJ		SA	0.578 UJ		0.72
HY-24	24C	MERCURY	TD	2.73 UJ		SA	0.976 UJ		2.8
HY-25	25C	MERCURY	TD	0.631 UJ		SA	0.911 UJ		0.69
HY-26	26C	MERCURY	TD	0.715 UJ		SA	0.997 UJ		0.72
HY-27	27C	MERCURY	TD	0.396 UJ		SA	0.619 UJ		0.64
HY-28	28C	MERCURY	TD	0.501 UJ		SA	0.747 UJ		0.67
HY-30	30C-REF	MERCURY	TD	0.251 UJ		SA	0.386 UJ		0.65

Average: 0.85

CR-02	02C-REF	NICKEL	TD	33.9		SA	20.4		1.66
CR-02A	02AC-REF	NICKEL	TD	27.5		SA	27.4		1
HY-01	01C	NICKEL	TD	24.8		SA	14.6		1.7
HY-02	02C	NICKEL	TD	28.8		SA	18		1.6
HY-03	03C	NICKEL	TD	28.6		SA	19.3		1.48
HY-04	04C	NICKEL	TD	28.3		SA	18.5		1.53
HY-05	05C	NICKEL	TD	27.7		SA	16.7		1.66

Ratio of metal concentrations as analyzed by total digestion and strong acid digestion methods (continued)

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
HY-06	06C	NICKEL	TD	35		SA	22.7		1.54
HY-07	07C	NICKEL	TD	30.7		SA	19.6		1.57
HY-08	08C	NICKEL	TD	36.4		SA	24.6		1.48
HY-09	09C	NICKEL	TD	29.9		SA	17.9		1.67
HY-10	10C	NICKEL	TD	32.8		SA	25.7		1.28
HY-11	11C	NICKEL	TD	30		SA	19.1		1.57
HY-12	12C	NICKEL	TD	30.2		SA	18.1		1.67
HY-13	13C	NICKEL	TD	27.1		SA	18.8		1.44
HY-14	14C	NICKEL	TD	28.2		SA	16.9		1.67
HY-15	15C	NICKEL	TD	32.1		SA	22.2		1.45
HY-16	16C	NICKEL	TD	37.5		SA	23.7		1.58
HY-17	17C	NICKEL	TD	29.5		SA	15.6		1.89
HY-18	18C	NICKEL	TD	34.4		SA	24.9		1.38
HY-19	19C	NICKEL	TD	36.7		SA	28.4		1.29
HY-20	20C	NICKEL	TD	40.3		SA	35.1		1.15
HY-21	21C	NICKEL	TD	43.7		SA	39.5		1.11
HY-22	22C	NICKEL	TD	35.9		SA	26.5		1.35
HY-23	23C	NICKEL	TD	39.8		SA	31.4		1.27
HY-24	24C	NICKEL	TD	38.2		SA	21.2		1.8
HY-25	25C	NICKEL	TD	39.4		SA	18		2.19
HY-26	26C	NICKEL	TD	41.2		SA	38.2		1.08
HY-27	27C	NICKEL	TD	36.4		SA	22.5		1.62
HY-28	28C	NICKEL	TD	38.8		SA	32.7		1.19
HY-30	30C-REF	NICKEL	TD	26.1		SA	20.3		1.29
								Average:	1.49
CR-02	02C-REF	SILVER	TD	0.076		SA	0.045		1.69
CR-02A	02AC-REF	SILVER	TD	0.048		SA	0.096		0.45
HY-01	01C	SILVER	TD	0.189		SA	0.269		0.7
HY-02	02C	SILVER	TD	0.229		SA	0.325		0.7
HY-03	03C	SILVER	TD	0.309		SA	0.429		0.72
HY-04	04C	SILVER	TD	0.259		SA	0.396		0.65
HY-05	05C	SILVER	TD	0.268		SA	0.416		0.64
HY-06	06C	SILVER	TD	0.264		SA	0.356		0.74
HY-07	07C	SILVER	TD	0.254		SA	0.315		0.81
HY-08	08C	SILVER	TD	0.295		SA	0.334		0.88
HY-09	09C	SILVER	TD	0.307		SA	0.399		0.77
HY-10	10C	SILVER	TD	0.328		SA	0.473		0.69
HY-11	11C	SILVER	TD	0.309		SA	0.391		0.79
HY-12	12C	SILVER	TD	0.306		SA	0.424		0.72
HY-13	13C	SILVER	TD	0.14		SA	0.198		0.71
HY-14	14C	SILVER	TD	0.173		SA	0.229		0.76
HY-15	15C	SILVER	TD	0.368		SA	0.465		0.79
HY-16	16C	SILVER	TD	0.363		SA	0.449		0.81
HY-17	17C	SILVER	TD	0.095		SA	0.112		0.85
HY-18	18C	SILVER	TD	0.325		SA	0.481		0.68
HY-19	19C	SILVER	TD	0.34		SA	0.438		0.78
HY-20	20C	SILVER	TD	0.37		SA	0.507		0.73

Ratio of metal concentrations prepared by total digestion and strong acid digestion methods (continued)

Station	Sample	Variable	Method	Value	Qualifier	Method	Value	Qualifier	TD/SA ratio
HY-22	22C	SILVER	TD	0.206		SA	0.341		0.6
HY-23	23C	SILVER	TD	0.288		SA	0.356		0.81
HY-24	24C	SILVER	TD	0.248		SA	0.352		0.7
HY-25	25C	SILVER	TD	0.289		SA	0.399		0.72
HY-26	26C	SILVER	TD	0.289		SA	0.46		0.63
HY-27	27C	SILVER	TD	0.202		SA	0.257		0.79
HY-28	28C	SILVER	TD	0.245		SA	0.438		0.56
HY-30	30C-REF	SILVER	TD	0.24		SA	0.371		0.65
Average:									0.75
CR-02	02C-REF	ZINC	TD	17.2		SA	37.5		0.46
CR-02A	02AC-REF	ZINC	TD	15.7	U	SA	51.3		0.31
HY-01	01C	ZINC	TD	109		SA	63.4		1.72
HY-02	02C	ZINC	TD	135		SA	98.1		1.38
HY-03	03C	ZINC	TD	210		SA	142		1.48
HY-04	04C	ZINC	TD	176		SA	124		1.42
HY-05	05C	ZINC	TD	119		SA	97.7		1.22
HY-06	06C	ZINC	TD	142		SA	130		1.09
HY-07	07C	ZINC	TD	145		SA	103		1.41
HY-08	08C	ZINC	TD	135		SA	97.2		1.39
HY-09	09C	ZINC	TD	155		SA	109		1.42
HY-10	10C	ZINC	TD	161		SA	129		1.25
HY-11	11C	ZINC	TD	140		SA	97.4		1.44
HY-12	12C	ZINC	TD	113		SA	104		1.09
HY-13	13C	ZINC	TD	105		SA	71.4		1.47
HY-14	14C	ZINC	TD	144		SA	86.6		1.66
HY-15	15C	ZINC	TD	173		SA	132		1.31
HY-16	16C	ZINC	TD	579		SA	530		1.09
HY-17	17C	ZINC	TD	99.4		SA	95.5		1.04
HY-18	18C	ZINC	TD	213		SA	173		1.23
HY-19	19C	ZINC	TD	217		SA	169		1.28
HY-20	20C	ZINC	TD	261		SA	243		1.07
HY-21	21C	ZINC	TD	279		SA	221		1.26
HY-22	22C	ZINC	TD	196		SA	200		0.98
HY-23	23C	ZINC	TD	434		SA	380		1.14
HY-24	24C	ZINC	TD	295		SA	329		0.9
HY-25	25C	ZINC	TD	384		SA	376		1.02
HY-26	26C	ZINC	TD	324		SA	347		0.93
HY-27	27C	ZINC	TD	216		SA	210		1.03
HY-28	28C	ZINC	TD	250		SA	263		0.95
HY-30	30C-REF	ZINC	TD	75.5		SA	86.5		0.87
Average:									1.17