

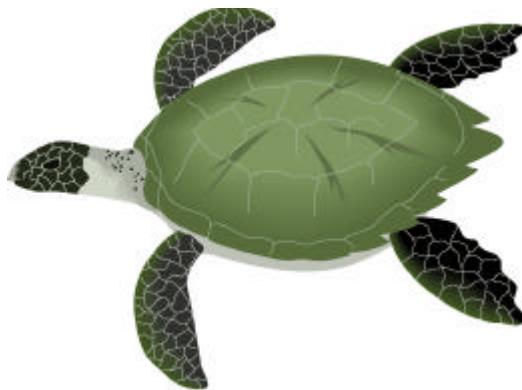


United States Air Force
15th Air Base Wing
Environmental Restoration Program

Waimanalo Stream ITIR

EE/CA for OU1

Bellows Air Force Station Oahu, Hawaii



Attachment C

Complete Processed Data Listings

Attachment C

Complete Processed Data Listings for Waimanalo Stream During the Bellows OU1 EE/CA

This attachment contains the complete analytical data listings for the surface water, surface sediment, and aquatic biota tissue samples that were collected at Waimanalo Stream during the Bellows OU1 EE/CA. These data have been processed, meaning that:

1. Multiple results from different analytical methods (e.g., PAHs from both SW8270B and SW8310) have been resolved into a single result for each surface water and surface sediment sample;
2. Field duplicates have been resolved into a single result for each surface water, surface sediment, and aquatic biota tissue sampling location; and
3. Tissue results reported as wet-weight were converted to dry-weight values; those reported as dry-weight values were converted to wet-weight for comparability through different aspects of the data evaluation.

The data processing methods are described in Attachment B. The tables included in this Attachment (C), as well as the data qualifiers and abbreviations used in these tables, are listed on the following “cover” page that also accompanies the electronic versions of the tables.

Attachment C

Complete Processed Data Listings for Waimanalo Stream

This attachment contains the complete analytical data listings for surface water, sediment, and fish tissue sample during the Bellows OU1 EE/CA. These data have been processed, meaning:

- (1) multiple results reported using different analytical methods (e.g., naphthalene using both SW826C have been resolved into a single result for each sample, and
- (2) field duplicates have been resolved into a single result for each location.

The data processing methods are described in detail in Attachment B.

Table of Contents

Table C-1	Sediment Sampling Results, Waimanalo Stream
Table C-2	Surface Water Sampling Results, Waimanalo Stream
Table C-3	Fish Tissue Sampling Results, Waimanalo Stream

Data Qualifiers and Abbreviations

Data Qualifiers

B	The analyte was found in an associated blank, as well as in the sample.
D	Applied to averaged results when non "U" qualifiers are not identical.
F	The analyte was positively identified but the associated numerical value is below the reporting limit (RL)
J	The analyte was positively identified; the quantitation is an estimation.
M	A matrix effect was present.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the met
UB	Same as "U", and the analyte was found in an associated blank.
UM	Same as "U", and a matrix effect was present.

Abbreviations

mg/kg	milligrams per kilogram	AVS/SEM	acid-volatile sulfides/simultaneously extracted r
mg/L	milligrams per liter	CONV	conventional parameters
ug/L	micrograms per liter	HERB	herbicides
umoles/g	micromoles per gram	PAH	polynuclear aromatic hydrocarbons
NA	not analyzed	PEST	pesticides
		PCB	polychlorinated biphenyls
		SVOC	semivolatile organic compounds
		TPH	total petroleum hydrocarbons

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WS-001	WS-002	WS-003	WS-004	WS-005
Sample ID				WS-SW001A	WS-SW002A	WS-SW003A	WS-SW004A	WS-SW005A
Depth (feet-bgs)				NM	NM	NM	NM	NM
Sampling Date				11/10/98	11/10/98	11/10/98	11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units					
VOC	1,1,1,2-Tetrachloroethane	630-20-6	ug/L	0.1 U	0.09 U	0.09 U	0.1 U	0.1 U
VOC	1,1,1-TCA	71-55-6	ug/L	0.13 U	0.11 U	0.11 U	0.13 U	0.13 U
VOC	1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.13 U	0.09 U	0.09 U	0.13 U	0.13 U
VOC	1,1,2-TCA	79-00-5	ug/L	0.07 U	0.14 U	0.14 U	0.07 U	0.07 U
VOC	1,1-DCA	75-34-3	ug/L	0.13 U	0.11 U	0.11 U	0.13 U	0.13 U
VOC	1,1-DCE	75-35-4	ug/L	0.11 U	0.09 U	0.09 U	0.11 U	0.11 U
VOC	1,1-Dichloropropene	563-58-6	ug/L	0.09 U	0.21 U	0.21 U	0.09 U	0.09 U
VOC	1,2,3-Trichlorobenzene	87-61-6	ug/L	0.14 U	0.12 U	0.12 U	0.14 U	0.14 U
VOC	1,2,3-Trichloropropane	96-18-4	ug/L	0.17 U	0.15 U	0.15 U	0.17 U	0.17 U
VOC	1,2,4-Trichlorobenzene	120-82-1	ug/L	0.08 U	0.12 U	0.12 U	0.08 U	0.08 U
VOC	1,2,4-Trimethylbenzene	95-63-6	ug/L	0.12 U	0.09 U	0.09 U	0.12 U	0.12 U
VOC	1,2-DCA	107-06-2	ug/L	0.13 U	0.1 U	0.1 U	0.13 U	0.13 U
VOC	1,2-DCB	95-50-1	ug/L	0.13 U	0.09 U	0.09 U	0.13 U	0.13 U
VOC	1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.64 U	0.51 U	0.51 U	0.64 U	0.64 U
VOC	1,2-Dichloropropane	78-87-5	ug/L	0.1 U	0.08 U	0.08 U	0.1 U	0.1 U
VOC	1,2-EDB	106-93-4	ug/L	0.1 U	0.13 U	0.13 U	0.1 U	0.1 U
VOC	1,3,5-Trimethylbenzene	108-67-8	ug/L	0.09 UM	0.09 U	0.09 U	0.09 U	0.09 U
VOC	1,3-DCB	541-73-1	ug/L	0.1 U	0.08 U	0.08 U	0.1 U	0.1 U
VOC	1,3-Dichloropropane	142-28-9	ug/L	0.1 U	0.11 U	0.11 U	0.1 U	0.1 U
VOC	1,4-DCB	106-46-7	ug/L	0.11 U	0.09 U	0.09 U	0.11 U	0.11 U
VOC	1-Chlorohexane	544-10-5	ug/L	0.06 U	0.07 U	0.07 U	0.06 U	0.06 U
VOC	2,2-Dichloropropane	594-20-7	ug/L	0.13 U	0.17 U	0.17 U	0.13 U	0.13 U
VOC	2-Chlorotoluene	95-49-8	ug/L	0.06 U	0.09 U	0.09 U	0.06 U	0.06 U
VOC	4-Chlorotoluene	106-43-4	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOC	Benzene	71-43-2	ug/L	0.11 U	0.07 U	0.07 U	0.11 U	0.11 U
VOC	Bromobenzene	108-86-1	ug/L	0.07 U	0.06 U	0.06 U	0.07 U	0.07 U
VOC	Bromochloromethane	74-97-5	ug/L	0.1 U	0.13 U	0.13 U	0.1 U	0.1 U
VOC	Bromodichloromethane	75-27-4	ug/L	0.12 U	0.09 U	0.09 U	0.12 U	0.12 U
VOC	Bromoform	75-25-2	ug/L	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
VOC	Bromomethane	74-83-9	ug/L	0.14 UM	0.08 U	0.08 U	R	R
VOC	Carbon tetrachloride	56-23-5	ug/L	0.12 U	0.18 U	0.18 U	0.12 U	0.12 U
VOC	Chlorobenzene	108-90-7	ug/L	0.09 U	0.06 U	0.06 U	0.09 U	0.09 U
VOC	Chloroethane	75-00-3	ug/L	0.15 U	0.09 U	0.09 U	0.15 U	0.15 U
VOC	Chloroform	67-66-3	ug/L	0.14 U	0.1 U	0.1 U	0.14 U	0.14 U
VOC	Chloromethane	74-87-3	ug/L	0.39 U	0.13 U	0.13 U	0.39 U	0.39 U
VOC	Cis-1,2-DCE	156-59-2	ug/L	0.12 U	0.21 U	0.21 U	0.12 U	0.12 U
VOC	Cis-1,3-Dichloropropene	10061-01-5	ug/L	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U
VOC	Dibromochloromethane	124-48-1	ug/L	0.08 U	0.13 U	0.13 U	0.08 U	0.08 U
VOC	Dibromomethane	74-95-3	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U
VOC	Dichlorodifluoromethane	75-71-8	ug/L	0.07 U	0.08 U	0.08 U	0.07 U	0.07 U
VOC	Ethylbenzene	100-41-4	ug/L	0.09 U	0.07 U	0.07 U	0.09 U	0.09 U
VOC	Hexachlorobutadiene	87-68-3	ug/L	0.11 U	0.09 U	0.09 U	0.11 U	0.11 U
VOC	Isopropylbenzene	98-82-8	ug/L	0.08 U	0.07 U	0.07 U	0.08 U	0.08 U
VOC	Methylene chloride	75-09-2	ug/L	0.09 U	0.05 U	0.05 U	0.09 U	0.09 U
VOC	Sec-Butylbenzene	135-98-8	ug/L	0.09 U	0.08 U	0.08 U	0.09 U	0.09 U
VOC	Styrene	100-42-5	ug/L	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
VOC	TCE	79-01-6	ug/L	0.14 U	0.09 U	0.09 U	0.14 U	0.14 U
VOC	Tert-Butylbenzene	98-06-6	ug/L	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
VOC	Tetrachloroethene	127-18-4	ug/L	0.11 U	0.1 U	0.1 U	0.11 U	0.11 U
VOC	Toluene	108-88-3	ug/L	0.1 U	0.09 U	0.1275 D F	0.1 U	0.11 F
VOC	Trans-1,2-DCE	156-60-5	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
VOC	Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.08 U	0.14 U	0.14 U	0.08 U	0.08 U
VOC	Trichlorofluoromethane	75-69-4	ug/L	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U
VOC	Vinyl chloride	75-01-4	ug/L	0.11 U	0.08 U	0.08 U	0.11 U	0.11 U
VOC	m, p-Xylene	108-38-3/1	ug/L	0.17 U	0.1 U	0.1 U	0.17 U	0.17 U
VOC	n-Butylbenzene	104-51-8	ug/L	0.11 U	0.08 U	0.08 U	0.11 U	0.11 U

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WS-001	WS-002	WS-003	WS-004	WS-005
Sample ID				WS-SW001A	WS-SW002A	WS-SW003A	WS-SW004A	WS-SW005A
Depth (feet-bgs)				NM	NM	NM	NM	NM
Sampling Date				11/10/98	11/10/98	11/10/98	11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units					
VOC	n-Propylbenzene	103-65-1	ug/L	0.09 U	0.08 U	0.08 U	0.09 U	0.09 U
VOC	o-Xylene	95-47-6	ug/L	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
VOC	p-Isopropyltoluene	99-87-6	ug/L	0.1 U	0.09 U	0.09 U	0.1 U	0.1 U
TPH	TPH-Diesel	TPH-DIESEL	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
TPH	TPH-Gasoline	TPH-GASOLINE	mg/L	0.01 U	0.01 F	0.0075 D F	0.01 U	0.01 U
SVOC	2,4,5-Trichlorophenol	95-95-4	ug/L	4.32 U	4.32 U	4.32 U	4.32 U	4.32 U
SVOC	2,4,6-Trichlorophenol	88-06-2	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
SVOC	2,4-DNT	121-14-2	ug/L	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
SVOC	2,4-Dichlorophenol	120-83-2	ug/L	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
SVOC	2,4-Dimethylphenol	105-67-9	ug/L	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
SVOC	2,4-Dinitrophenol	51-28-5	ug/L	5.14 U	5.14 U	5.14 U	5.14 U	5.14 U
SVOC	2,6-DNT	606-20-2	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
SVOC	2-Chloronaphthalene	91-58-7	ug/L	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
SVOC	2-Chlorophenol	95-57-8	ug/L	1.88 U	1.88 U	1.88 U	1.88 U	1.88 U
SVOC	2-Methylnaphthalene	91-57-6	ug/L	1.66 U	1.66 U	1.66 U	1.66 U	1.66 U
SVOC	2-Methylphenol	95-48-7	ug/L	1.66 U	1.66 U	1.66 U	1.66 U	1.66 U
SVOC	2-Nitroaniline	88-74-4	ug/L	4.28 U	4.28 U	4.28 U	4.28 U	4.28 U
SVOC	2-Nitrophenol	88-75-5	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
SVOC	3,3'-Dichlorobenzidine	91-94-1	ug/L	1.05 UM	R	1.05 U	1.05 U	1.05 U
SVOC	3-Nitroaniline	99-09-2	ug/L	3.95 UM	3.95 U	3.95 U	3.95 U	3.95 U
SVOC	4,6-Dinitro-2-methylphenol	534-52-1	ug/L	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
SVOC	4-Bromophenyl phenyl ether	101-55-3	ug/L	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
SVOC	4-Chloro-3-methylphenol	59-50-7	ug/L	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
SVOC	4-Chloroaniline	106-47-8	ug/L	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U
SVOC	4-Chlorophenyl phenyl ether	7005-72-3	ug/L	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
SVOC	4-Methylphenol	106-44-5	ug/L	1.59 U	1.59 U	1.59 U	1.59 U	1.59 U
SVOC	4-Nitroaniline	100-01-6	ug/L	4.56 UM	4.56 U	4.56 U	4.56 U	4.56 U
SVOC	4-Nitrophenol	100-02-7	ug/L	3.89 U	3.89 U	3.89 U	3.89 U	3.89 U
SVOC	Benzoic acid	65-85-0	ug/L	R	R	R	4.95 U	4.95 U
SVOC	Benzyl alcohol	100-51-6	ug/L	1.56 U	1.56 U	1.56 U	1.56 U	1.56 U
SVOC	Bis (2-chloroethoxy) methane	111-91-1	ug/L	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
SVOC	Bis (2-chloroethyl) ether	111-44-4	ug/L	1.86 U	1.86 U	1.86 U	1.86 U	1.86 U
SVOC	Bis (2-chloroisopropyl) ether	108-60-1	ug/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	ug/L	2.59 U	2.59 U	2.59 U	2.59 U	2.59 U
SVOC	Butyl benzylphthalate	85-68-7	ug/L	1.32 U	1.32 U	1.32 U	1.32 U	1.32 U
SVOC	Di-n-butylphthalate	84-74-2	ug/L	1.04 U	2.32 F	1.09 D F	1.04 U	1.04 U
SVOC	Di-n-octylphthalate	117-84-0	ug/L	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
SVOC	Dibenzofuran	132-64-9	ug/L	1.31 U	1.31 U	1.31 U	1.31 U	1.31 U
SVOC	Diethyl phthalate	84-66-2	ug/L	2.51 U	2.51 U	2.51 U	2.51 U	2.51 U
SVOC	Dimethyl phthalate	131-11-3	ug/L	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U
SVOC	Hexachlorobenzene	118-74-1	ug/L	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
SVOC	Hexachlorocyclopentadiene	77-47-4	ug/L	4.36 U	4.36 U	4.36 U	4.36 U	4.36 U
SVOC	Hexachloroethane	67-72-1	ug/L	1.76 U	1.76 U	1.76 U	1.76 U	1.76 U
SVOC	Isophorone	78-59-1	ug/L	1.35 U	1.35 U	1.35 U	1.35 U	1.35 U
SVOC	N-Nitrosodi-n-propylamine	621-64-7	ug/L	1.73 U	1.73 U	1.73 U	1.73 U	1.73 U
SVOC	N-Nitrosodiphenylamine	86-30-6	ug/L	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
SVOC	Nitrobenzene	98-95-3	ug/L	1.65 UM	1.65 U	1.65 U	1.65 U	1.65 U
SVOC	Pentachlorophenol	87-86-5	ug/L	3.44 U	3.44 U	3.44 U	3.44 U	3.44 U
SVOC	Phenol	108-95-2	ug/L	1.51 U	1.51 U	1.51 U	1.51 U	1.51 U
PEST	4,4'-DDD	72-54-8	ug/L	0.01 UM	0.01 U	0.01 U	0.01 U	0.01 U
PEST	4,4'-DDE	72-55-9	ug/L	0.01 UM	0.01 U	0.01 U	NA	NA
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	ug/L	NA	NA	NA	0.01 U	0.01 U
PEST	4,4'-DDT	50-29-3	ug/L	0.02 UM	0.044 F	0.09 D F	0.02 U	0.02 U
PEST	Aldrin	309-00-2	ug/L	0.091 M	0.091 F	0.107 F	0.15 F	0.12 F
PEST	Chlordane (Alpha)	5103-71-9	ug/L	0.01 UM	0.01 U	0.01 U	0.01 U	0.01 U
PEST	Chlordane (Gamma)	5103-74-2	ug/L	0.01 UM	0.01 U	0.01 U	0.01 U	0.01 U

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WS-001	WS-002	WS-003	WS-004	WS-005
Sample ID				WS-SW001A	WS-SW002A	WS-SW003A	WS-SW004A	WS-SW005A
Depth (feet-bgs)				NM	NM	NM	NM	NM
Sampling Date				11/10/98	11/10/98	11/10/98	11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units					
PEST	Dieldrin	60-57-1	ug/L	0.01 UM	0.01 U	0.01 U	NA	NA
PEST	Endosulfan I	959-98-8	ug/L	0.01 UM	0.013 F	0.01 U	0.01 U	0.01 U
PEST	Endosulfan II	33213-65-9	ug/L	0.02 UM	0.032 F	0.02 U	0.02 U	0.02 U
PEST	Endosulfan sulfate	1031-07-8	ug/L	0.02 UM	0.17 F	0.15 F	0.02 U	0.02 U
PEST	Endrin	72-20-8	ug/L	0.03 UM	0.03 U	0.03 U	0.03 U	0.03 U
PEST	Endrin aldehyde	7421-93-4	ug/L	0.048 M	0.04 U	0.035 D F	0.04 U	0.04 U
PEST	Heptachlor	76-44-8	ug/L	0.01 UM	0.01 U	0.022 D F	0.064 F	0.055 F
PEST	Heptachlor epoxide	1024-57-3	ug/L	0.19 M	0.035 F	0.0375 F	0.042 F	0.06 F
PEST	Methoxychlor	72-43-5	ug/L	0.02 UM	0.02 U	0.02 U	0.02 U	0.02 U
PEST	Toxaphene	8001-35-2	ug/L	R	R	R	R	R
PEST	alpha-BHC	319-84-6	ug/L	0.01 UM	0.01 U	0.01 U	0.01 U	0.01 U
PEST	beta-BHC	319-85-7	ug/L	0.01 UM	0.01 U	0.01 U	0.01 U	0.01 U
PEST	delta-BHC	319-86-8	ug/L	0.015 M	0.01 U	0.01 U	0.01 U	0.01 U
PEST	gamma-BHC (Lindane)	58-89-9	ug/L	0.01 UM	0.01 U	0.01 U	0.01 U	0.01 U
PCB	Aroclor-1016	12674-11-2	ug/L	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
PCB	Aroclor-1221	11104-28-2	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
PCB	Aroclor-1232	11141-16-5	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
PCB	Aroclor-1242	53469-21-9	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
PCB	Aroclor-1248	12672-29-6	ug/L	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
PCB	Aroclor-1254	11097-69-1	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
PCB	Aroclor-1260	11096-82-5	ug/L	0.069 U	0.069 U	0.069 U	0.069 U	0.069 U
PAH	Acenaphthene	83-32-9	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
PAH	Acenaphthylene	208-96-8	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PAH	Anthracene	120-12-7	ug/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
PAH	Benzo (a) anthracene	56-55-3	ug/L	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
PAH	Benzo (a) pyrene	50-32-8	ug/L	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
PAH	Benzo (b) fluoranthene	205-99-2	ug/L	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
PAH	Benzo (g,h,i) perylene	191-24-2	ug/L	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U
PAH	Benzo (k) fluoranthene	207-08-9	ug/L	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
PAH	Chrysene	218-01-9	ug/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
PAH	Dibenzo (a,h) anthracene	53-70-3	ug/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
PAH	Fluoranthene	206-44-0	ug/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
PAH	Fluorene	86-73-7	ug/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	ug/L	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
PAH	Naphthalene	91-20-3	ug/L	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U
PAH	Phenanthrene	85-01-8	ug/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
PAH	Pyrene	129-00-0	ug/L	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
METALS	Aluminum	7429-90-5	mg/L	0.05 F	0.05 F	0.055 F	0.02 F	0.09 F
METALS	Aluminum, dissolved	7429-90-5_D	mg/L	0.02 U	0.02 U	0.02 F	0.02 U	0.02 U
METALS	Antimony	7440-36-0	mg/L	0.0066 U	0.0066 U	0.00575 D F	0.0066 U	0.0066 U
METALS	Antimony, dissolved	7440-36-0_D	mg/L	0.0066 UM	0.0066 U	0.0066 U	0.025 F	0.029 F
METALS	Arsenic	7440-38-2	mg/L	0.0069 UM	0.0069 U	0.0069 U	0.0069 U	0.0069 U
METALS	Arsenic, dissolved	7440-38-2_D	mg/L	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
METALS	Barium	7440-39-3	mg/L	0.0154	0.0167	0.0166	0.0124	0.0114
METALS	Barium, dissolved	7440-39-3_D	mg/L	0.0151	0.0167	0.0167	0.013	0.0114
METALS	Beryllium	7440-41-7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
METALS	Beryllium, dissolved	7440-41-7_D	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
METALS	Cadmium	7440-43-9	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
METALS	Cadmium, dissolved	7440-43-9_D	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
METALS	Calcium	7440-70-2	mg/L	81.7 M	142	139.5	86.3	101
METALS	Calcium, dissolved	7440-70-2_D	mg/L	91.7 M	142	144	95.3	107
METALS	Chromium	7440-47-3	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
METALS	Chromium, dissolved	7440-47-3_D	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
METALS	Cobalt	7440-48-4	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
METALS	Cobalt, dissolved	7440-48-4_D	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
METALS	Copper	7440-50-8	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WS-001	WS-002	WS-003	WS-004	WS-005
Sample ID				WS-SW001A	WS-SW002A	WS-SW003A	WS-SW004A	WS-SW005A
Depth (feet-bgs)				NM	NM	NM	NM	NM
Sampling Date				11/10/98	11/10/98	11/10/98	11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units					
METALS	Copper, dissolved	7440-50-8_D	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
METALS	Iron	7439-89-6	mg/L	0.141 F	0.094 F	0.1115 F	0.112 F	0.169 F
METALS	Iron, dissolved	7439-89-6_D	mg/L	0.022 F	0.002 U	0.0295 D F	0.015 F	0.017 F
METALS	Lead	7439-92-1	mg/L	0.008 UM	0.008 U	0.008 U	0.004 U	0.007 F
METALS	Lead, dissolved	7439-92-1_D	mg/L	0.008 U	0.008 U	0.008 U	0.005 F	0.005 F
METALS	Magnesium	7439-95-4	mg/L	200 M	400 B	394.5 B	215	272
METALS	Magnesium, dissolved	7439-95-4_D	mg/L	237 M	402 B	409.5 B	249	296
METALS	Manganese	7439-96-5	mg/L	0.0741	0.0852	0.0898	0.0741	0.0626
METALS	Manganese, dissolved	7439-96-5_D	mg/L	0.0894	0.0809	0.086	0.0708	0.0553
METALS	Mercury	7439-97-6	mg/L	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METALS	Mercury, dissolved	7439-97-6_D	mg/L	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METALS	Nickel	7440-02-0	mg/L	0.008 F	0.006 U	0.006 U	0.006 U	0.006 U
METALS	Nickel, dissolved	7440-02-0_D	mg/L	0.006 U	0.006 U	0.006 D F	0.006 U	0.006 U
METALS	Potassium	7440-09-7	mg/L	57.2	116	115	62.3	79.5
METALS	Potassium, dissolved	7440-09-7_D	mg/L	69.8	117	117	71.6	85.4
METALS	Selenium	7782-49-2	mg/L	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U
METALS	Selenium, dissolved	7782-49-2_D	mg/L	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U
METALS	Silver	7440-22-4	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
METALS	Silver, dissolved	7440-22-4_D	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
METALS	Sodium	7440-23-5	mg/L	1,570 M	3,110 B	3,085 B	1,690	2,120
METALS	Sodium, dissolved	7440-23-5_D	mg/L	1,880 M	3,100 B	3,110 B	1,980	2,340
METALS	Thallium	7440-28-0	mg/L	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
METALS	Thallium, dissolved	7440-28-0_D	mg/L	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
METALS	Vanadium	7440-62-2	mg/L	0.005 F	0.005 F	0.005 F	0.006 F	0.005 F
METALS	Vanadium, dissolved	7440-62-2_D	mg/L	0.006 F	0.004 F	0.0045 F	0.006 F	0.005 F
METALS	Zinc	7440-66-6	mg/L	0.003 F	0.002 F	0.0225 D	0.002 F	0.002 F
METALS	Zinc, dissolved	7440-66-6_D	mg/L	0.003 F	0.002 U	0.004 F	0.004 F	0.005 F
HERB	2,4,5-T	93-76-5	ug/L	0.23 UM	0.23 U	0.23 U	0.23 U	0.23 U
HERB	2,4,5-TP (Silvex)	93-72-1	ug/L	R	R	R	R	R
HERB	2,4-D	94-75-7	ug/L	0.52 U	0.52 U	0.52 U	R	R
HERB	2,4-DB	94-82-6	ug/L	R	R	R	R	R
HERB	Dalapon	75-99-0	ug/L	0.93 U	0.93 U	0.93 U	26 U	52 J
HERB	Dicamba	1918-00-9	ug/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
HERB	Dichloroprop	120-36-5	ug/L	R	R	R	R	R
HERB	Dinoseb	88-85-7	ug/L	R	R	R	0.08 U	0.08 U
HERB	MCPA	94-74-6	ug/L	54 U	54 U	54 U	54 U	54 U
HERB	MCPP	93-65-2	ug/L	22 U	22 U	22 U	22 U	22 U
CONV	Ammonia-N	13767-16-3	mg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CONV	Chloride	CHLORIDE	mg/L	4,260	6,080	6,285	3,630	2,870
CONV	Cyanide	5955-70-0	mg/L	0.001 U	0.001 U	0.00275 D F	0.001 U	0.001 U
CONV	Nitrate	NITRATE-N	mg/L	1.04	0.79 F	0.785 F	1.05	1.11
CONV	Nitrite	NITRITE-N	mg/L	0.03	0.02	0.02	0.03	0.03
CONV	Phosphate	PHOSPHATE	mg/L	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
CONV	Sulfate	SULFATE	mg/L	612	875	891	543	409
CONV	Sulfide	SULFIDE	mg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CONV	Total Phosphorous-P	TOTAL PHOSPHOROUS-P	mg/L	0.1	0.1	0.1	0.1	0.1

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WSU-001	WSU-002
Sample ID				WSU-SW001A	WSU-SW002A
Depth (feet-bgs)				NM	NM
Sampling Date				11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units		
VOC	1,1,1,2-Tetrachloroethane	630-20-6	ug/L	0.1 U	0.1 U
VOC	1,1,1-TCA	71-55-6	ug/L	0.13 U	0.13 U
VOC	1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.13 U	0.13 U
VOC	1,1,2-TCA	79-00-5	ug/L	0.07 U	0.07 U
VOC	1,1-DCA	75-34-3	ug/L	0.13 U	0.13 U
VOC	1,1-DCE	75-35-4	ug/L	0.11 U	0.11 U
VOC	1,1-Dichloropropene	563-58-6	ug/L	0.09 U	0.09 U
VOC	1,2,3-Trichlorobenzene	87-61-6	ug/L	0.14 U	0.14 U
VOC	1,2,3-Trichloropropane	96-18-4	ug/L	0.17 U	0.17 U
VOC	1,2,4-Trichlorobenzene	120-82-1	ug/L	0.08 U	0.08 U
VOC	1,2,4-Trimethylbenzene	95-63-6	ug/L	0.12 U	0.12 U
VOC	1,2-DCA	107-06-2	ug/L	0.13 U	0.13 U
VOC	1,2-DCB	95-50-1	ug/L	0.13 U	0.13 U
VOC	1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.64 U	0.64 U
VOC	1,2-Dichloropropane	78-87-5	ug/L	0.1 U	0.1 U
VOC	1,2-EDB	106-93-4	ug/L	0.1 U	0.1 U
VOC	1,3,5-Trimethylbenzene	108-67-8	ug/L	0.09 U	0.09 U
VOC	1,3-DCB	541-73-1	ug/L	0.1 U	0.1 U
VOC	1,3-Dichloropropane	142-28-9	ug/L	0.1 U	0.1 U
VOC	1,4-DCB	106-46-7	ug/L	0.11 U	0.11 U
VOC	1-Chlorohexane	544-10-5	ug/L	0.06 U	0.06 U
VOC	2,2-Dichloropropane	594-20-7	ug/L	0.13 U	0.13 U
VOC	2-Chlorotoluene	95-49-8	ug/L	0.06 U	0.06 U
VOC	4-Chlorotoluene	106-43-4	ug/L	0.1 U	0.1 U
VOC	Benzene	71-43-2	ug/L	0.11 U	0.11 U
VOC	Bromobenzene	108-86-1	ug/L	0.07 U	0.07 U
VOC	Bromochloromethane	74-97-5	ug/L	0.1 U	0.1 U
VOC	Bromodichloromethane	75-27-4	ug/L	0.12 U	0.12 U
VOC	Bromoform	75-25-2	ug/L	0.09 U	0.09 U
VOC	Bromomethane	74-83-9	ug/L	R	R
VOC	Carbon tetrachloride	56-23-5	ug/L	0.12 U	0.12 U
VOC	Chlorobenzene	108-90-7	ug/L	0.09 U	0.09 U
VOC	Chloroethane	75-00-3	ug/L	0.15 U	0.15 U
VOC	Chloroform	67-66-3	ug/L	0.14 U	0.14 U
VOC	Chloromethane	74-87-3	ug/L	0.39 U	0.39 U
VOC	Cis-1,2-DCE	156-59-2	ug/L	0.12 U	0.12 U
VOC	Cis-1,3-Dichloropropene	10061-01-5	ug/L	0.09 U	0.09 U
VOC	Dibromochloromethane	124-48-1	ug/L	0.08 U	0.08 U
VOC	Dibromomethane	74-95-3	ug/L	0.11 U	0.11 U
VOC	Dichlorodifluoromethane	75-71-8	ug/L	0.07 U	0.07 U
VOC	Ethylbenzene	100-41-4	ug/L	0.09 U	0.09 U
VOC	Hexachlorobutadiene	87-68-3	ug/L	0.11 U	0.11 U
VOC	Isopropylbenzene	98-82-8	ug/L	0.08 U	0.08 U
VOC	Methylene chloride	75-09-2	ug/L	0.09 U	0.09 U
VOC	Sec-Butylbenzene	135-98-8	ug/L	0.09 U	0.09 U
VOC	Styrene	100-42-5	ug/L	0.07 U	0.07 U
VOC	TCE	79-01-6	ug/L	0.14 U	0.14 U
VOC	Tert-Butylbenzene	98-06-6	ug/L	0.09 U	0.09 U
VOC	Tetrachloroethene	127-18-4	ug/L	0.11 U	0.11 U
VOC	Toluene	108-88-3	ug/L	0.1 U	0.1 U
VOC	Trans-1,2-DCE	156-60-5	ug/L	0.12 U	0.12 U
VOC	Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.08 U	0.08 U
VOC	Trichlorofluoromethane	75-69-4	ug/L	0.2 U	0.2 U
VOC	Vinyl chloride	75-01-4	ug/L	0.11 U	0.11 U
VOC	m, p-Xylene	108-38-3/1	ug/L	0.17 U	0.17 U
VOC	n-Butylbenzene	104-51-8	ug/L	0.11 U	0.11 U

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WSU-001	WSU-002
Sample ID				WSU-SW001A	WSU-SW002A
Depth (feet-bgs)				NM	NM
Sampling Date				11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units		
VOC	n-Propylbenzene	103-65-1	ug/L	0.09 U	0.09 U
VOC	o-Xylene	95-47-6	ug/L	0.07 U	0.07 U
VOC	p-Isopropyltoluene	99-87-6	ug/L	0.1 U	0.1 U
TPH	TPH-Diesel	TPH-DIESEL	mg/L	0.01 U	0.01 U
TPH	TPH-Gasoline	TPH-GASOLINE	mg/L	0.01 U	0.01 U
SVOC	2,4,5-Trichlorophenol	95-95-4	ug/L	4.32 U	4.32 U
SVOC	2,4,6-Trichlorophenol	88-06-2	ug/L	1.5 U	1.5 U
SVOC	2,4-DNT	121-14-2	ug/L	1.36 U	1.36 U
SVOC	2,4-Dichlorophenol	120-83-2	ug/L	1.54 U	1.54 U
SVOC	2,4-Dimethylphenol	105-67-9	ug/L	1.62 U	1.62 U
SVOC	2,4-Dinitrophenol	51-28-5	ug/L	5.14 U	5.14 U
SVOC	2,6-DNT	606-20-2	ug/L	1.2 U	1.2 U
SVOC	2-Chloronaphthalene	91-58-7	ug/L	1.25 U	1.25 U
SVOC	2-Chlorophenol	95-57-8	ug/L	1.88 U	1.88 U
SVOC	2-Methylnaphthalene	91-57-6	ug/L	1.66 U	1.66 U
SVOC	2-Methylphenol	95-48-7	ug/L	1.66 U	1.66 U
SVOC	2-Nitroaniline	88-74-4	ug/L	4.28 U	4.28 U
SVOC	2-Nitrophenol	88-75-5	ug/L	1.4 U	1.4 U
SVOC	3,3'-Dichlorobenzidine	91-94-1	ug/L	1.05 U	1.05 U
SVOC	3-Nitroaniline	99-09-2	ug/L	3.95 U	3.95 U
SVOC	4,6-Dinitro-2-methylphenol	534-52-1	ug/L	4.8 U	4.8 U
SVOC	4-Bromophenyl phenyl ether	101-55-3	ug/L	1.09 U	1.09 U
SVOC	4-Chloro-3-methylphenol	59-50-7	ug/L	1.36 U	1.36 U
SVOC	4-Chloroaniline	106-47-8	ug/L	1.33 U	1.33 U
SVOC	4-Chlorophenyl phenyl ether	7005-72-3	ug/L	1.37 U	1.37 U
SVOC	4-Methylphenol	106-44-5	ug/L	1.59 U	1.59 U
SVOC	4-Nitroaniline	100-01-6	ug/L	4.56 U	4.56 U
SVOC	4-Nitrophenol	100-02-7	ug/L	3.89 U	3.89 U
SVOC	Benzoic acid	65-85-0	ug/L	4.95 U	4.95 U
SVOC	Benzyl alcohol	100-51-6	ug/L	1.56 U	1.56 U
SVOC	Bis (2-chloroethoxy) methane	111-91-1	ug/L	1.38 U	1.38 U
SVOC	Bis (2-chloroethyl) ether	111-44-4	ug/L	1.86 U	1.86 U
SVOC	Bis (2-chloroisopropyl) ether	108-60-1	ug/L	1.7 U	1.7 U
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	ug/L	2.59 UB	2.59 U
SVOC	Butyl benzylphthalate	85-68-7	ug/L	1.32 U	1.32 U
SVOC	Di-n-butylphthalate	84-74-2	ug/L	1.04 U	1.04 U
SVOC	Di-n-octylphthalate	117-84-0	ug/L	1.75 U	1.75 U
SVOC	Dibenzofuran	132-64-9	ug/L	1.31 U	1.31 U
SVOC	Diethyl phthalate	84-66-2	ug/L	2.51 U	2.51 U
SVOC	Dimethyl phthalate	131-11-3	ug/L	1.26 U	1.26 U
SVOC	Hexachlorobenzene	118-74-1	ug/L	1.25 U	1.25 U
SVOC	Hexachlorocyclopentadiene	77-47-4	ug/L	4.36 U	4.36 U
SVOC	Hexachloroethane	67-72-1	ug/L	1.76 U	1.76 U
SVOC	Isophorone	78-59-1	ug/L	1.35 U	1.35 U
SVOC	N-Nitrosodi-n-propylamine	621-64-7	ug/L	1.73 U	1.73 U
SVOC	N-Nitrosodiphenylamine	86-30-6	ug/L	1.28 U	1.28 U
SVOC	Nitrobenzene	98-95-3	ug/L	1.65 U	1.65 U
SVOC	Pentachlorophenol	87-86-5	ug/L	3.44 U	3.44 U
SVOC	Phenol	108-95-2	ug/L	1.51 U	1.51 U
PEST	4,4'-DDD	72-54-8	ug/L	0.01 U	0.01 U
PEST	4,4'-DDE	72-55-9	ug/L	NA	NA
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	ug/L	0.01 U	0.01 U
PEST	4,4'-DDT	50-29-3	ug/L	0.02 U	0.02 U
PEST	Aldrin	309-00-2	ug/L	0.12 F	0.1 F
PEST	Chlordane (Alpha)	5103-71-9	ug/L	0.01 U	0.01 U
PEST	Chlordane (Gamma)	5103-74-2	ug/L	0.01 U	0.01 U

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WSU-001	WSU-002
Sample ID				WSU-SW001A	WSU-SW002A
Depth (feet-bgs)				NM	NM
Sampling Date				11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units		
PEST	Dieldrin	60-57-1	ug/L	NA	NA
PEST	Endosulfan I	959-98-8	ug/L	0.01 U	0.01 U
PEST	Endosulfan II	33213-65-9	ug/L	0.02 U	0.02 U
PEST	Endosulfan sulfate	1031-07-8	ug/L	0.02 U	0.02 U
PEST	Endrin	72-20-8	ug/L	0.03 U	0.03 U
PEST	Endrin aldehyde	7421-93-4	ug/L	0.04 U	0.04 U
PEST	Heptachlor	76-44-8	ug/L	0.047 F	0.041 F
PEST	Heptachlor epoxide	1024-57-3	ug/L	0.034 F	0.02 F
PEST	Methoxychlor	72-43-5	ug/L	0.02 U	0.02 U
PEST	Toxaphene	8001-35-2	ug/L	R	R
PEST	alpha-BHC	319-84-6	ug/L	0.016 F	0.01 U
PEST	beta-BHC	319-85-7	ug/L	0.01 U	0.01 U
PEST	delta-BHC	319-86-8	ug/L	0.01 U	0.01 U
PEST	gamma-BHC (Lindane)	58-89-9	ug/L	0.01 U	0.01 U
PCB	Aroclor-1016	12674-11-2	ug/L	0.051 U	0.051 U
PCB	Aroclor-1221	11104-28-2	ug/L	0.08 U	0.08 U
PCB	Aroclor-1232	11141-16-5	ug/L	0.13 U	0.13 U
PCB	Aroclor-1242	53469-21-9	ug/L	0.29 U	0.29 U
PCB	Aroclor-1248	12672-29-6	ug/L	0.086 U	0.086 U
PCB	Aroclor-1254	11097-69-1	ug/L	0.12 U	0.12 U
PCB	Aroclor-1260	11096-82-5	ug/L	0.069 U	0.069 U
PAH	Acenaphthene	83-32-9	ug/L	0.11 U	0.11 U
PAH	Acenaphthylene	208-96-8	ug/L	0.2 U	0.2 U
PAH	Anthracene	120-12-7	ug/L	0.01 U	0.01 U
PAH	Benzo (a) anthracene	56-55-3	ug/L	0.015 U	0.015 U
PAH	Benzo (a) pyrene	50-32-8	ug/L	0.016 U	0.016 U
PAH	Benzo (b) fluoranthene	205-99-2	ug/L	0.032 U	0.032 U
PAH	Benzo (g,h,i) perylene	191-24-2	ug/L	0.041 U	0.041 U
PAH	Benzo (k) fluoranthene	207-08-9	ug/L	0.016 U	0.016 U
PAH	Chrysene	218-01-9	ug/L	0.01 U	0.01 U
PAH	Dibenzo (a,h) anthracene	53-70-3	ug/L	0.04 U	0.04 U
PAH	Fluoranthene	206-44-0	ug/L	0.02 U	0.02 U
PAH	Fluorene	86-73-7	ug/L	0.02 U	0.02 U
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	ug/L	0.036 U	0.036 U
PAH	Naphthalene	91-20-3	ug/L	0.09 U	0.09 U
PAH	Phenanthrene	85-01-8	ug/L	0.01 U	0.01 U
PAH	Pyrene	129-00-0	ug/L	0.03 U	0.03 U
METALS	Aluminum	7429-90-5	mg/L	0.34	0.03 F
METALS	Aluminum, dissolved	7429-90-5_D	mg/L	0.02 U	0.02 U
METALS	Antimony	7440-36-0	mg/L	0.0066 U	0.0066 U
METALS	Antimony, dissolved	7440-36-0_D	mg/L	0.009 U	0.009 U
METALS	Arsenic	7440-38-2	mg/L	0.0069 U	0.0069 U
METALS	Arsenic, dissolved	7440-38-2_D	mg/L	0.007 F	0.0069 U
METALS	Barium	7440-39-3	mg/L	0.0033 F	0.0044 F
METALS	Barium, dissolved	7440-39-3_D	mg/L	0.0031 F	0.0058
METALS	Beryllium	7440-41-7	mg/L	0.001 U	0.001 U
METALS	Beryllium, dissolved	7440-41-7_D	mg/L	0.001 U	0.001 U
METALS	Cadmium	7440-43-9	mg/L	0.001 F	0.001 U
METALS	Cadmium, dissolved	7440-43-9_D	mg/L	0.001 U	0.001 U
METALS	Calcium	7440-70-2	mg/L	21.1	17
METALS	Calcium, dissolved	7440-70-2_D	mg/L	20.6	19.1
METALS	Chromium	7440-47-3	mg/L	0.004 U	0.004 U
METALS	Chromium, dissolved	7440-47-3_D	mg/L	0.004 U	0.004 U
METALS	Cobalt	7440-48-4	mg/L	0.003 U	0.003 U
METALS	Cobalt, dissolved	7440-48-4_D	mg/L	0.003 U	0.003 U
METALS	Copper	7440-50-8	mg/L	0.002 F	0.001 U

Table C-1
Surface Water Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WSU-001	WSU-002
Sample ID				WSU-SW001A	WSU-SW002A
Depth (feet-bgs)				NM	NM
Sampling Date				11/11/98	11/11/98
Chemical Group	Analyte	CAS	Units		
METALS	Copper, dissolved	7440-50-8_D	mg/L	0.001 U	0.001 U
METALS	Iron	7439-89-6	mg/L	0.537	0.073 F
METALS	Iron, dissolved	7439-89-6_D	mg/L	0.066 F	0.086 F
METALS	Lead	7439-92-1	mg/L	0.004 U	0.004 U
METALS	Lead, dissolved	7439-92-1_D	mg/L	0.004 U	0.004 U
METALS	Magnesium	7439-95-4	mg/L	14	14.2
METALS	Magnesium, dissolved	7439-95-4_D	mg/L	13.8	15.9
METALS	Manganese	7439-96-5	mg/L	0.0161	0.0075
METALS	Manganese, dissolved	7439-96-5_D	mg/L	0.0063	0.0072
METALS	Mercury	7439-97-6	mg/L	0.0001 U	0.0001 U
METALS	Mercury, dissolved	7439-97-6_D	mg/L	0.0001 U	0.0001 U
METALS	Nickel	7440-02-0	mg/L	0.006 U	0.006 U
METALS	Nickel, dissolved	7440-02-0_D	mg/L	0.006 U	0.006 U
METALS	Potassium	7440-09-7	mg/L	1.67 F	0.93 F
METALS	Potassium, dissolved	7440-09-7_D	mg/L	1.37 F	0.78 F
METALS	Selenium	7782-49-2	mg/L	0.0058 U	0.0058 U
METALS	Selenium, dissolved	7782-49-2_D	mg/L	0.0058 U	0.0058 U
METALS	Silver	7440-22-4	mg/L	0.002 U	0.002 U
METALS	Silver, dissolved	7440-22-4_D	mg/L	0.002 U	0.002 U
METALS	Sodium	7440-23-5	mg/L	27.8	37.8
METALS	Sodium, dissolved	7440-23-5_D	mg/L	28	42
METALS	Thallium	7440-28-0	mg/L	0.011 U	0.011 U
METALS	Thallium, dissolved	7440-28-0_D	mg/L	0.011 U	0.011 U
METALS	Vanadium	7440-62-2	mg/L	0.007 F	0.003 F
METALS	Vanadium, dissolved	7440-62-2_D	mg/L	0.004 F	0.003 F
METALS	Zinc	7440-66-6	mg/L	0.009 F	0.003 F
METALS	Zinc, dissolved	7440-66-6_D	mg/L	0.005 F	0.005 F
HERB	2,4,5-T	93-76-5	ug/L	0.23 U	0.23 U
HERB	2,4,5-TP (Silvex)	93-72-1	ug/L	R	R
HERB	2,4-D	94-75-7	ug/L	R	R
HERB	2,4-DB	94-82-6	ug/L	R	R
HERB	Dalapon	75-99-0	ug/L	0.93 U	0.93 U
HERB	Dicamba	1918-00-9	ug/L	0.38 U	0.38 U
HERB	Dichloroprop	120-36-5	ug/L	R	R
HERB	Dinoseb	88-85-7	ug/L	0.08 U	0.08 U
HERB	MCPA	94-74-6	ug/L	54 U	54 U
HERB	MCPP	93-65-2	ug/L	22 U	22 U
CONV	Ammonia-N	13767-16-3	mg/L	0.13 U	0.13 U
CONV	Chloride	CHLORIDE	mg/L	31.6	39.1
CONV	Cyanide	5955-70-0	mg/L	0.001 U	0.001 U
CONV	Nitrate	NITRATE-N	mg/L	0.19 F	6.2 F
CONV	Nitrite	NITRITE-N	mg/L	0.007 F	0.02
CONV	Phosphate	PHOSPHATE	mg/L	0.07 U	0.07 U
CONV	Sulfate	SULFATE	mg/L	11.3	23.7
CONV	Sulfide	SULFIDE	mg/L	0.5 U	0.5 U
CONV	Total Phosphorous-P	TOTAL PHOSPHOROUS-P	mg/L	0.2	0.1

Table C-2
Sediment Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID	WS-001	WS-002	WS-003	WS-004	WS-005	WSU-001	WSU-002				
Sample ID	WS-SD001A	WS-SD002A	WS-SD003A	WS-SD004A	WS-SD005A /SU-SD001A	/SU-SD002A					
Depth (feet-bgs)	0-8	0-6	0-6	0-10	0-10	0-6	0-10				
Sampling Date	11/13/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98				
Chemical	Grc	Analyte	CAS	Units							
VOC		1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.0004 U	0.0005 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
VOC		1,1,1-TCA	71-55-6	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
VOC		1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		1,1,2-TCA	79-00-5	mg/kg	0.0006 U	0.0008 U	0.0006 U	0.0005 U	0.0005 U	0.0004 U	0.0005 U
VOC		1,1-DCA	75-34-3	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		1,1-DCE	75-35-4	mg/kg	0.0008 U	0.0011 U	0.0008 U	0.0007 U	0.0006 U	0.0005 U	0.0007 U
VOC		1,1-Dichloropropene	563-58-6	mg/kg	0.0006 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0004 U	0.0005 U
VOC		1,2,3-Trichlorobenzene	87-61-6	mg/kg	0.0005 UM	0.0006 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		1,2,3-Trichloropropane	96-18-4	mg/kg	0.001 UM	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
VOC		1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.0007 U	0.0009 U	0.0007 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U
VOC		1,2,4-Trimethylbenzene	95-63-6	mg/kg	0.0003 U	0.0004 U	0.0003 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
VOC		1,2-DCA	107-06-2	mg/kg	0.0004 U	0.0005 U	0.0003 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC		1,2-DCB	95-50-1	mg/kg	0.0003 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
VOC		1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
VOC		1,2-Dichloropropane	78-87-5	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
VOC		1,2-EDB	106-93-4	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		1,3,5-Trimethylbenzene	108-67-8	mg/kg	0.0005 U	0.0006 U	0.0004 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		1,3-DCB	541-73-1	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0004 U
VOC		1,3-Dichloropropane	142-28-9	mg/kg	0.0006 U	0.0008 U	0.0006 U	0.0005 U	0.0005 U	0.0004 U	0.0005 U
VOC		1,4-DCB	106-46-7	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		1-Chlorohexane	544-10-5	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		2,2-Dichloropropane	594-20-7	mg/kg	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 U	0.001 U
VOC		2-Chlorotoluene	95-49-8	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0004 U
VOC		4-Chlorotoluene	106-43-4	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0004 U
VOC		Benzene	71-43-2	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0004 U
VOC		Bromobenzene	108-86-1	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC		Bromochloromethane	74-97-5	mg/kg	0.0005 U	0.0006 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		Bromodichloromethane	75-27-4	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC		Bromoform	75-25-2	mg/kg	0.0005 UM	0.0006 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		Bromomethane	74-83-9	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0004 U
VOC		Carbon tetrachloride	56-23-5	mg/kg	0.001 UM	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.001 U
VOC		Chlorobenzene	108-90-7	mg/kg	0.0005 U	0.0006 U	0.0004 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		Chloroethane	75-00-3	mg/kg	0.0006 U	0.0007 U	0.0005 U	0.0005 U	0.0004 U	0.0004 U	0.0005 U
VOC		Chloroform	67-66-3	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC		Chloromethane	74-87-3	mg/kg	0.0005 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U

Table C-2
Sediment Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID		WS-001	WS-002	WS-003	WS-004	WS-005	WSU-001	WSU-002		
Sample ID		WS-SD001A	WS-SD002A	WS-SD003A	WS-SD004A	WS-SD005A /SU-SD001A /SU-SD002A				
Depth (feet-bgs)		0-8	0-6	0-6	0-10	0-10	0-6	0-10		
Sampling Date		11/13/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98		
Chemical	Grc Analyte	CAS	Units							
VOC	Cis-1,2-DCE	156-59-2	mg/kg	0.0006 U	0.0008 U	0.0006 U	0.0005 U	0.0005 U	0.0004 U	0.0005 U
VOC	Cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC	Dibromochloromethane	124-48-1	mg/kg	0.0005 U	0.0006 U	0.0004 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC	Dibromomethane	74-95-3	mg/kg	0.0005 UM	0.001 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC	Dichlorodifluoromethane	75-71-8	mg/kg	0.0007 U	0.0009 U	0.0006 U	0.0005 U	0.0005 U	0.0004 U	0.0006 U
VOC	Ethylbenzene	100-41-4	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
VOC	Hexachlorobutadiene	87-68-3	mg/kg	0.0006 U	0.0008 U	0.0006 U	0.0005 U	0.0005 U	0.0004 U	0.0005 U
VOC	Isopropylbenzene	98-82-8	mg/kg	0.0003 U	0.0004 U	0.0003 U	0.0002 U	0.0002 U	0.0002 U	0.0003 U
VOC	Methylene chloride	75-09-2	mg/kg	0.0007 U	0.0009 U	0.0007 U	0.0006 U	0.0005 U	0.0004 U	0.0006 U
VOC	Sec-Butylbenzene	135-98-8	mg/kg	0.0003 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
VOC	Styrene	100-42-5	mg/kg	0.0003 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC	TCE	79-01-6	mg/kg	0.0005 U	0.001 U	0.0005 U	0.0004 U	0.0004 U	0.0003 U	0.0004 U
VOC	Tert-Butylbenzene	98-06-6	mg/kg	0.0003 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC	Tetrachloroethene	127-18-4	mg/kg	0.0006 U	0.0007 U	0.0005 U	0.0004 U	0.0004 U	0.0004 U	0.0005 U
VOC	Toluene	108-88-3	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC	Trans-1,2-DCE	156-60-5	mg/kg	0.0009 U	0.0012 U	0.0009 U	0.0007 U	0.0007 U	0.0006 U	0.0008 U
VOC	Trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0004 U
VOC	Trichlorofluoromethane	75-69-4	mg/kg	0.0007 U	0.0009 U	0.0007 U	0.0006 U	0.0005 U	0.0004 U	0.0006 U
VOC	Vinyl chloride	75-01-4	mg/kg	0.0008 U	0.001 U	0.0007 U	0.0006 U	0.0006 U	0.0005 U	0.0007 U
VOC	m, p-Xylene	108-38-3/1	mg/kg	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0004 U	0.001 U
VOC	n-Butylbenzene	104-51-8	mg/kg	0.0004 U	0.0006 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0004 U
VOC	n-Propylbenzene	103-65-1	mg/kg	0.0004 U	0.0005 U	0.0004 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
VOC	o-Xylene	95-47-6	mg/kg	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0002 U
VOC	p-Isopropyltoluene	99-87-6	mg/kg	0.0003 U	0.0004 U	0.0003 U	0.0003 U	0.0003 U	0.0002 U	0.0003 U
TPH	TPH-Diesel	TPH-DIESEL	mg/kg	28 F	64 F	18.175 D F	6.2 F	4.8 F	8.5 F	13.1 U
TPH	TPH-Gasoline	TPH-GASOLINE	mg/kg	0.15 F	0.01 U	0.0075 D F	0.01 U	0.01 U	0.01 U	0.01 U
SVOC	2,4,5-Trichlorophenol	95-95-4	mg/kg	0.41 U	0.53 U	0.39 U	0.33 U	0.31 U	0.26 U	0.35 U
SVOC	2,4,6-Trichlorophenol	88-06-2	mg/kg	0.167 U	0.215 U	0.157 U	0.134 U	0.128 U	0.106 U	0.141 U
SVOC	2,4-DNT	121-14-2	mg/kg	0.27 U	0.35 U	0.26 U	0.22 U	0.21 U	0.17 U	0.23 U
SVOC	2,4-Dichlorophenol	120-83-2	mg/kg	0.144 U	0.186 U	0.136 U	0.116 U	0.11 U	0.092 U	0.122 U
SVOC	2,4-Dimethylphenol	105-67-9	mg/kg	0.209 U	0.269 U	0.197 U	0.168 U	0.16 U	0.133 U	0.176 U
SVOC	2,4-Dinitrophenol	51-28-5	mg/kg	0.45 U	0.58 U	0.43 U	0.36 U	0.35 U	0.29 U	0.38 U
SVOC	2,6-DNT	606-20-2	mg/kg	0.17 U	0.21 U	0.16 U	0.13 U	0.13 U	0.11 U	0.14 U
SVOC	2-Chloronaphthalene	91-58-7	mg/kg	0.16 U	0.21 U	0.15 U	0.13 U	0.13 U	0.1 U	0.14 U
SVOC	2-Chlorophenol	95-57-8	mg/kg	0.206 U	0.266 U	0.194 U	0.166 U	0.158 U	0.131 U	0.174 U

Table C-2
Sediment Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID			WS-001	WS-002	WS-003	WS-004	WS-005	WSU-001	WSU-002	
Sample ID			WS-SD001A	WS-SD002A	WS-SD003A	WS-SD004A	WS-SD005A /SU-SD001A /SU-SD002A			
Depth (feet-bgs)			0-8	0-6	0-6	0-10	0-10	0-6	0-10	
Sampling Date			11/13/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	
Chemical	Grc Analyte	CAS	Units							
SVOC	2-Methylnaphthalene	91-57-6	mg/kg	0.17 U	0.22 U	0.16 U	0.14 U	0.13 U	0.11 U	0.15 U
SVOC	2-Methylphenol	95-48-7	mg/kg	0.257 U	0.332 U	0.242 U	0.207 U	0.197 U	0.164 U	0.217 U
SVOC	2-Nitroaniline	88-74-4	mg/kg	0.46 U	0.59 U	0.43 U	0.37 U	0.35 U	0.29 U	0.39 U
SVOC	2-Nitrophenol	88-75-5	mg/kg	0.212 U	0.274 U	0.2 U	0.171 U	0.163 U	0.135 U	0.18 U
SVOC	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.31 U	0.4 U	0.29 U	0.25 U	0.24 U	0.2 U	0.26 U
SVOC	3-Nitroaniline	99-09-2	mg/kg	0.46 UM	0.59 U	0.43 U	0.37 U	0.35 U	0.29 U	0.39 U
SVOC	4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.59 U	0.75 U	0.55 U	0.47 U	0.45 U	0.37 U	0.49 U
SVOC	4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.23 U	0.29 U	0.21 U	0.18 U	0.17 U	0.14 U	0.19 U
SVOC	4-Chloro-3-methylphenol	59-50-7	mg/kg	0.2 U	0.26 U	0.19 U	0.16 U	0.15 U	0.13 U	0.17 U
SVOC	4-Chloroaniline	106-47-8	mg/kg	0.25 UM	0.32 U	0.23 U	0.2 U	0.19 U	0.16 U	0.21 U
SVOC	4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	0.15 U	0.2 U	0.14 U	0.12 U	0.12 U	0.1 U	0.13 U
SVOC	4-Methylphenol	106-44-5	mg/kg	0.176 U	0.227 U	0.166 U	0.141 U	0.135 U	0.112 U	0.149 U
SVOC	4-Nitroaniline	100-01-6	mg/kg	0.72 U	0.92 U	0.67 U	0.58 U	0.55 U	0.46 U	0.61 U
SVOC	4-Nitrophenol	100-02-7	mg/kg	0.34 U	0.44 U	0.32 U	0.27 U	0.26 U	0.22 U	0.29 U
SVOC	Benzoic acid	65-85-0	mg/kg	0.5 U	0.64 U	0.47 U	0.4 U	0.38 U	0.32 U	0.42 U
SVOC	Benzyl alcohol	100-51-6	mg/kg	0.24 U	0.31 U	0.23 U	0.2 U	0.19 U	0.15 U	0.21 U
SVOC	Bis (2-chloroethoxy) methane	111-91-1	mg/kg	0.18 U	0.24 U	0.17 U	0.15 U	0.14 U	0.12 U	0.15 U
SVOC	Bis (2-chloroethyl) ether	111-44-4	mg/kg	0.24 U	0.31 U	0.23 U	0.19 U	0.18 U	0.15 U	0.2 U
SVOC	Bis (2-chloroisopropyl) ether	108-60-1	mg/kg	0.16 U	0.2 U	0.15 U	0.13 U	0.12 U	0.1 U	0.13 U
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	0.31 U	0.4 U	0.29 U	0.25 U	0.24 U	0.2 U	0.26 U
SVOC	Butyl benzylphthalate	85-68-7	mg/kg	0.25 U	0.32 U	0.24 U	0.2 U	0.19 U	0.16 U	0.21 U
SVOC	Di-n-butylphthalate	84-74-2	mg/kg	0.14 U	0.18 U	0.1325 D F	0.11 U	0.1 U	0.09 U	0.13 F
SVOC	Di-n-octylphthalate	117-84-0	mg/kg	0.07 U	0.09 U	0.07 U	0.06 U	0.05 U	0.04 U	0.06 U
SVOC	Dibenzofuran	132-64-9	mg/kg	0.15 U	0.19 U	0.14 U	0.12 U	0.11 U	0.09 U	0.13 U
SVOC	Diethyl phthalate	84-66-2	mg/kg	0.26 U	0.34 U	0.25 U	0.21 U	0.2 U	0.17 U	0.22 U
SVOC	Dimethyl phthalate	131-11-3	mg/kg	0.15 U	0.19 U	0.14 U	0.12 U	0.11 U	0.09 U	0.12 U
SVOC	Hexachlorobenzene	118-74-1	mg/kg	0.18 UM	0.23 U	0.17 U	0.14 U	0.13 U	0.11 U	0.15 U
SVOC	Hexachlorocyclopentadiene	77-47-4	mg/kg	0.41 UM	0.53 U	0.39 U	0.33 U	0.31 U	0.26 U	0.35 U
SVOC	Hexachloroethane	67-72-1	mg/kg	0.25 UM	0.32 U	0.24 U	0.2 U	0.19 U	0.16 U	0.21 U
SVOC	Isophorone	78-59-1	mg/kg	0.18 U	0.23 U	0.17 U	0.14 U	0.14 U	0.11 U	0.15 U
SVOC	N-Nitrosodi-n-propylamine	621-64-7	mg/kg	0.23 U	0.29 U	0.21 U	0.18 U	0.17 U	0.14 U	0.19 U
SVOC	N-Nitrosodiphenylamine	86-30-6	mg/kg	0.19 U	0.25 U	0.18 U	0.15 U	0.15 U	0.12 U	0.16 U
SVOC	Nitrobenzene	98-95-3	mg/kg	0.2 U	0.26 U	0.19 U	0.16 U	0.15 U	0.13 U	0.17 U
SVOC	Pentachlorophenol	87-86-5	mg/kg	0.64 U	0.83 U	0.61 U	0.52 U	0.49 U	0.41 U	0.54 U
SVOC	Phenol	108-95-2	mg/kg	0.178 U	0.23 U	0.168 U	0.143 U	0.137 U	0.114 U	0.151 U

Table C-2
Sediment Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WS-001	WS-002	WS-003	WS-004	WS-005	WSU-001	WSU-002	
Sample ID				WS-SD001A	WS-SD002A	WS-SD003A	WS-SD004A	WS-SD005A /SU-SD001A /SU-SD002A			
Depth (feet-bgs)				0-8	0-6	0-6	0-10	0-10	0-6	0-10	
Sampling Date				11/13/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	
Chemical	Grc	Analyte	CAS	Units							
PEST		4,4'-DDD	72-54-8	mg/kg	0.0071 M	0.018 F	0.0046 F	0.0019 F	0.0027 F	0.0011 U	0.0039 F
PEST		4,4'-DDE	72-55-9	mg/kg	0.0017 M	0.0054 F	0.001598 D F	0.0055 F	0.011 F	0.0009 F	0.0021 F
PEST		4,4'-DDT	50-29-3	mg/kg	0.019 F	R	0.0091 F	0.0051 F	0.014 F	R	0.0081 F
PEST		Aldrin	309-00-2	mg/kg	0.00033 UM	0.0038 F	0.00205 F	0.0005 F	0.00089 F	0.0013 F	0.0009 F
PEST		Chlordane (Alpha)	5103-71-9	mg/kg	0.0033 M	0.039 F	0.0064 F	0.0011 F	R	0.0009 F	0.006 F
PEST		Chlordane (Gamma)	5103-74-2	mg/kg	0.0019 M	0.0072 F	0.0018 F	0.0049 F	0.0019 F	0.0014 F	0.0075 F
PEST		Dieldrin	60-57-1	mg/kg	0.0015 M	0.011 F	0.00275 F	0.0032 F	0.00065 U	0.0009 F	0.0036 F
PEST		Endosulfan I	959-98-8	mg/kg	0.0084 F	0.0052 F	0.003775 D F	0.0009 U	0.00076 U	0.0007 U	0.001 U
PEST		Endosulfan II	33213-65-9	mg/kg	0.011 F	0.024 F	0.002825 D F	0.0021 F	0.0019 F	R	0.0017 U
PEST		Endosulfan sulfate	1031-07-8	mg/kg	0.015 F	0.014 F	0.00325 F	0.0037 F	0.019 F	0.015 F	0.012 F
PEST		Endrin	72-20-8	mg/kg	0.014 M	0.031 F	0.00655 D F	0.0019 U	0.0016 U	0.0014 U	0.0021 U
PEST		Endrin aldehyde	7421-93-4	mg/kg	0.0041 F	R	0.0081 F	R	0.0077 F	0.0058 F	0.0033 U
PEST		Heptachlor	76-44-8	mg/kg	0.0031 F	4.4 J	1.436 J	0.0066 F	0.01 F	0.019 F	0.0034 F
PEST		Heptachlor epoxide	1024-57-3	mg/kg	0.0045 M	0.011 F	0.00255 F	0.0016 F	0.0024 F	0.0026 F	0.0007 F
PEST		Methoxychlor	72-43-5	mg/kg	0.025 M	0.0096 F	0.0066 F	0.0032 F	R	R	0.024 F
PEST		Toxaphene	8001-35-2	mg/kg	R	R	R	R	R	R	R
PEST		alpha-BHC	319-84-6	mg/kg	0.0017 M	0.016 F	0.00227 D F	0.0035 F	0.012 F	0.0007 F	0.0005 U
PEST		beta-BHC	319-85-7	mg/kg	0.0093 M	0.022 F	0.0101 F	0.0064 F	0.0054 F	0.023 F	0.0027 F
PEST		delta-BHC	319-86-8	mg/kg	0.0003 UM	0.00044 U	0.00031 U	0.0053 F	0.022 J	0.001 F	0.0012 F
PEST		gamma-BHC (Lindane)	58-89-9	mg/kg	0.42 M	0.47 J	0.465 J	0.22 J	0.17 J	0.0022 F	0.013 F
PCB		Aroclor-1016	12674-11-2	mg/kg	0.07 UM	0.18 U	0.075 U	0.012 U	0.054 U	0.0096 U	0.012 U
PCB		Aroclor-1221	11104-28-2	mg/kg	0.079 UM	0.2 U	0.084 U	0.013 U	0.06 U	0.011 U	0.013 U
PCB		Aroclor-1232	11141-16-5	mg/kg	0.067 UM	0.18 U	0.072 U	0.011 U	0.052 U	0.0092 U	0.011 U
PCB		Aroclor-1242	53469-21-9	mg/kg	0.084 UM	0.22 U	0.089 U	0.014 U	0.064 U	0.012 U	0.014 U
PCB		Aroclor-1248	12672-29-6	mg/kg	0.12 UM	0.3 U	0.12 U	0.02 U	0.089 U	0.016 U	0.02 U
PCB		Aroclor-1254	11097-69-1	mg/kg	0.02 UM	0.051 U	0.021 U	0.0033 U	0.015 U	0.0027 U	0.0034 U
PCB		Aroclor-1260	11096-82-5	mg/kg	0.028 UM	0.073 U	0.03 U	0.0047 U	0.022 U	0.0038 U	0.0048 U
PAH		Acenaphthene	83-32-9	mg/kg	0.03 U	0.04 U	0.03 U	0.02 U	0.02 U	0.12 U	0.03 U
PAH		Acenaphthylene	208-96-8	mg/kg	0.049 U	0.063 U	0.046 U	0.039 U	0.038 U	0.12 U	0.041 U
PAH		Anthracene	120-12-7	mg/kg	0.002 U	0.015 F	0.002 U	0.002 U	0.002 U	0.13 U	0.029 F
PAH		Benzo (a) anthracene	56-55-3	mg/kg	0.0047 F	0.161	0.01445 D	0.002 U	0.0019 U	0.16 U	0.135
PAH		Benzo (a) pyrene	50-32-8	mg/kg	0.0031 U	0.181	0.02235 D	0.0025 U	0.0023 U	0.11 U	0.132
PAH		Benzo (b) fluoranthene	205-99-2	mg/kg	0.0057 U	0.205	0.02105 D J	0.0046 U	0.0044 U	0.14 U	0.125
PAH		Benzo (g,h,i) perylene	191-24-2	mg/kg	0.008 F	0.186	0.023 F	0.006 U	0.006 U	0.1 U	0.105
PAH		Benzo (k) fluoranthene	207-08-9	mg/kg	0.0028 U	0.0973	0.009625 D F	0.0023 U	0.0022 U	R	0.0735

Table C-2
Sediment Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID			WS-001	WS-002	WS-003	WS-004	WS-005	WSU-001	WSU-002	
Sample ID			WS-SD001A	WS-SD002A	WS-SD003A	WS-SD004A	WS-SD005A /SU-SD001A /SU-SD002A			
Depth (feet-bgs)			0-8	0-6	0-6	0-10	0-10	0-6	0-10	
Sampling Date			11/13/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	
Chemical	Grc Analyte	CAS	Units							
PAH	Chrysene	218-01-9	mg/kg	0.01 F	0.27 F	0.017 F	0.002 U	0.002 U	0.14 U	0.18 J
PAH	Dibenzo (a,h) anthracene	53-70-3	mg/kg	0.007 U	0.008 U	0.006 U	0.005 U	0.005 U	0.13 U	0.006 U
PAH	Fluoranthene	206-44-0	mg/kg	0.004 U	0.3535 F	0.0225 D F	0.003 U	0.003 U	0.11 U	0.377
PAH	Fluorene	86-73-7	mg/kg	0.005 U	0.006 U	0.005 U	0.004 U	0.004 U	0.08 U	0.004 U
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	0.014 F	0.342 J	0.062 D F	0.009 U	0.008 U	0.09 U	0.199 J
PAH	Naphthalene	91-20-3	mg/kg	0.0007 U	0.0009 U	0.0007 U	0.0006 U	0.0005 U	0.0004 U	0.0006 U
PAH	Phenanthrene	85-01-8	mg/kg	0.004 F	0.132 F	0.00575 D F	0.002 U	0.002 U	0.1 U	0.272 F
PAH	Pyrene	129-00-0	mg/kg	0.008 F	0.239 F	0.025 F	0.002 U	0.002 U	0.11 U	0.331
METALS	Aluminum	7429-90-5	mg/kg	26,900 M	24,000	22,850	966	907	32,000	48,200
METALS	Antimony	7440-36-0	mg/kg	2.16 UM	2.8 U	2.03 U	1.73 U	1.66 U	1.37 U	1.81 U
METALS	Arsenic	7440-38-2	mg/kg	5.3 M	5.8 F	7.05 F	2.3 F	1.6 F	5.1 F	5.8 F
METALS	Barium	7440-39-3	mg/kg	16.9	14.4	12.3	3.6	4.7	79.4	103
METALS	Beryllium	7440-41-7	mg/kg	0.39 F	0.42 F	0.4 F	0.16 U	0.16 U	0.48 F	0.72 F
METALS	Cadmium	7440-43-9	mg/kg	0.92 F	1 F	0.71 F	0.164 U	0.157 U	0.95	1.4
METALS	Calcium	7440-70-2	mg/kg	65,600 M	126,000	91,400	187,000	278,000	9,060	8,650
METALS	Chromium	7440-47-3	mg/kg	111 M	120	106	5.4 F	6.6 F	128	220
METALS	Cobalt	7440-48-4	mg/kg	22.4	24.7 F	19.85 D	0.49 U	0.47 U	20.8	35.9
METALS	Copper	7440-50-8	mg/kg	50.1	57.3	46.7	1 F	0.88 F	51.4	85.2
METALS	Iron	7439-89-6	mg/kg	40,400 M	41,900 J	34,950 J	1,290 J	1,340 J	45,000 J	70,500 J
METALS	Lead	7439-92-1	mg/kg	6.7 M	9 F	8.95 F	3.4 F	1.41 U	3.1 F	11.3
METALS	Magnesium	7439-95-4	mg/kg	7,250 M	12,700	8,750	9,740	13,300	6,390	6,000
METALS	Manganese	7439-96-5	mg/kg	505 M	371	226	43.9	59.4	347	1,390
METALS	Mercury	7439-97-6	mg/kg	0.1 U	0.13 U	0.1 U	0.08 U	0.08 U	0.06 U	0.09 U
METALS	Nickel	7440-02-0	mg/kg	81.4	81.4	79.75	2 F	3.8	117	151
METALS	Potassium	7440-09-7	mg/kg	1,330 M	2,080	1,405	166 F	153 F	265 F	394 F
METALS	Selenium	7782-49-2	mg/kg	1.67 U	2.16 U	1.57 U	1.34 U	1.28 U	1.06 U	1.4 U
METALS	Silver	7440-22-4	mg/kg	0.75 F	0.79 U	0.58 U	0.49 U	0.47 U	0.62 F	0.85 F
METALS	Sodium	7440-23-5	mg/kg	11,300 M	19,500	8,240	4,750	4,180	684	684
METALS	Thallium	7440-28-0	mg/kg	1.43 UM	1.85 U	1.34 U	1.15 U	1.1 U	0.91 U	1.2 U
METALS	Vanadium	7440-62-2	mg/kg	88.4	104	87.25	4.1	4.6	107	166
METALS	Zinc	7440-66-6	mg/kg	62.9	86.8	68.8	3.4	3.4	71.1	122
HERB	2,4,5-T	93-76-5	mg/kg	0.0088 UM	0.013 U	0.0092 U	0.0078 U	0.0068 U	0.006 U	0.0088 U
HERB	2,4,5-TP (Silvex)	93-72-1	mg/kg	0.0084 U	0.012 U	0.0087 U	0.0074 U	0.0064 U	0.0056 U	0.04
HERB	2,4-D	94-75-7	mg/kg	0.035 U	0.052 U	0.036 U	0.031 U	0.027 U	0.024 U	0.54 J
HERB	2,4-DB	94-82-6	mg/kg	0.045 U	0.067 U	0.046 U	0.04 U	0.034 U	0.03 U	0.045 U

Table C-2
Sediment Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID				WS-001	WS-002	WS-003	WS-004	WS-005	WSU-001	WSU-002
Sample ID				WS-SD001A	WS-SD002A	WS-SD003A	WS-SD004A	WS-SD005A /SU-SD001A /SU-SD002A		
Depth (feet-bgs)				0-8	0-6	0-6	0-10	0-10	0-6	0-10
Sampling Date				11/13/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98	11/12/98
Chemical	Grc Analyte	CAS	Units							
HERB	Dalapon	75-99-0	mg/kg	0.039 UM	0.058 U	0.04 U	0.034 U	0.03 U	0.026 U	110 J
HERB	Dicamba	1918-00-9	mg/kg	0.018 U	0.027 U	0.019 U	0.016 U	0.014 U	0.012 U	0.14 F
HERB	Dichloroprop	120-36-5	mg/kg	0.028 UM	0.042 U	0.029 U	0.025 U	0.021 U	0.019 U	0.028 U
HERB	Dinoseb	88-85-7	mg/kg	0.01 U	0.016 U	0.011 U	0.0093 U	0.0081 U	0.0071 U	0.01 U
HERB	MCPA	94-74-6	mg/kg	6.4 U	9.5 U	6.6 U	5.6 U	4.9 U	4.3 U	7.7 F
HERB	MCPP	93-65-2	mg/kg	8 F	4.9 U	3.4 U	2.9 U	2.5 U	2.2 U	24 J
CONV	Ammonia-N	13767-16-3	mg/kg	53	151	91 J	10.7 U	10.2 U	20	44
CONV	Cyanide	5955-70-0	mg/kg	0.88 F	1.99	1.35 J	0.26 U	0.25 U	5.75	0.27 U
CONV	Total Organic Carbon	TOC	mg/kg	420 M	13 U	206.925 D J	262 J	231 J	65.1 J	504 J
AVS/SEM	AVS	AVS	umoles/c	17.1	66.5	33.1 J	2.2	1.7 J	0.34	0.1 U
AVS/SEM	Cadmium,AVS/SEM	7440-43-9-AVS/SEM	ug/L	0.38 U	0.76 U	0.76 U	1.9 U	1.9 U	0.38 U	0.38 U
AVS/SEM	Copper,AVS/SEM	7440-50-8-AVS/SEM	ug/L	93.3	124	226	21.7 U	21.7 U	376	179
AVS/SEM	Lead,AVS/SEM	7439-92-1-AVS/SEM	ug/L	16	7.49 F	29.04 D	11.8 U	11.8 U	54.5	87.8
AVS/SEM	Nickel,AVS/SEM	7440-02-0-AVS/SEM	ug/L	58.8	125	223	66.5 F	77.2 F	653	44.7
AVS/SEM	Total SEM	Total SEM	umoles/c	1.2	1.46	1.875	0.693	1.12	2.79	1.41
AVS/SEM	Zinc,AVS/SEM	7440-66-6-AVS/SEM	ug/L	266	236	399	75.5 F	413	467	390

Table C-3
Fish Tissue Sampling Results, Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location ID	WS-001	WS-001	WS-002	WS-002	WS-003	WS-003	WS-004	WS-004	WS-005	WS-005	WSU-001	WSU-001	WSU-002	WSU-002			
Sample ID	WS-TS001F	WS-TS001W	WS-TS002F	WS-TS002W	WS-TS003F	WS-TS003W	WS-TS004F	WS-TS004W	WS-TS005F	WS-TS005W	WSU-TS001F	WSU-TS001W	WSU-TS002F	WSU-TS002W			
Depth (feet-bgs)	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-3	0-3	0-1.5	0-1.5	0-1	0-1			
Sampling Date	11/17/98	11/19/98	11/17/98	11/18/98	11/17/98	11/18/98	11/16/98	11/16/98	11/16/98	11/16/98	11/19/98	11/19/98	11/19/98	11/19/98			
Chemical Gro Analyte	CAS	Units															
PEST	4,4'-DDD	72-54-8	ug/kg, wet	R	R	R	R	R	R	R	R	R	R	R	R	R	
PEST	4,4'-DDE	72-55-9	ug/kg, wet	2.56 J	14.14	0.83	9.12 J	0.9 J	10.52	0.74	4.85	0.94	4.4	0.76 J	1.53	0.79 J	3.84
PEST	4,4'-DDT	50-29-3	ug/kg, wet	0.72 J	2.91	0.34 U	2.08 J	0.35 U	2.03 J	0.33 U	0.85 J	0.35 U	0.36 U	1.08 U	0.33 U	0.34 U	0.34 U
PEST	Aldrin	309-00-2	ug/kg, wet	0.17 U	0.17 U	0.17 U	R	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.55 U	0.17 U	0.17 U	0.17 U
PEST	Dieldrin	60-57-1	ug/kg, wet	3.31	22.49	1.59	11.1 J	1.07	14.98	1.09	4.49	1.21	7.03	2.86	7.19	4.68	30.22 J
PEST	Endosulfan I	959-98-8	ug/kg, wet	0.38 U	0.38 U	0.38 U	R	0.39 U	0.4 U	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.58 J
PEST	Endosulfan II	33213-65-1	ug/kg, wet	0.38 U	1.45 J	0.38 U	R	0.39 U	0.98 J	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.9 J
PEST	Endosulfan Sulfate	1031-07-8	ug/kg, wet	0.38 U	0.58 J	0.38 U	0.44 J	0.39 U	0.6 J	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.63 J
PEST	Endrin	72-20-8	ug/kg, wet	0.38 U	0.8 J	0.38 U	R	0.39 U	0.53 J	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.38 U
PEST	Endrin Aldehyde	7421-93-4	ug/kg, wet	0.38 U	0.38 U	0.38 U	R	0.39 U	0.4 U	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	1.36 J
PEST	Endrin Ketone	53494-70-1	ug/kg, wet	0.38 U	0.38 U	0.38 U	R	0.39 U	0.4 U	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.38 U
PEST	Heptachlor	76-44-8	ug/kg, wet	0.14 U	0.14 U	0.14 U	0.24 J	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U	0.16	0.46 U	0.14 U	0.14 U	0.14 U
PEST	Heptachlor Epoxide	1024-57-3	ug/kg, wet	0.47 U	1.76 J	0.47 U	0.97 J	0.48 U	1.27 J	0.46 U	0.48 U	0.48 U	0.64 J	1.49 U	0.62 J	0.46 U	1.93 J
PEST	Methoxychlor	72-43-5	ug/kg, wet	0.38 U	1.09 J	0.38 U	1.22 J	0.39 U	2.12	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.38 U
PEST	a-BHC	319-84-6	ug/kg, wet	0.38 U	0.38 U	0.38 U	0.42 J	0.39 U	1.18 J	0.37 U	0.55 J	0.39 U	0.49 J	1.22 U	0.41 J	0.38 U	0.49 J
PEST	a-Chlordane	5103-71-9	ug/kg, wet	0.28 J	2.34 J	0.12 U	1.47 J	0.12 U	1.4 U	0.12 U	0.13 U	0.12 U	0.12 U	0.63 J	0.12 U	0.12 U	1.48 J
PEST	b-BHC	319-85-7	ug/kg, wet	0.38 U	0.38 U	0.38 U	R	0.39 U	0.4 U	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.51 J	0.38 U	0.38 U
PEST	d-BHC	319-86-8	ug/kg, wet	0.38 U	0.38 U	0.38 U	R	0.39 U	0.81 J	0.37 U	0.49 J	0.39 U	0.74	1.22 U	0.38 U	0.38 U	0.38 U
PEST	g-BHC (Lindane)	58-89-9	ug/kg, wet	0.23 U	1.11 J	0.23 U	R	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U	0.24 U	0.73 U	0.24 J	0.23 U	0.23 U
PEST	g-Chlordane	5103-74-2	ug/kg, wet	0.38 U	0.83 J	0.38 U	0.63 J	0.39 U	0.4 U	0.37 U	0.39 U	0.39 U	0.39 U	1.22 U	0.38 U	0.38 U	0.38 U
PCB	PCB-1254	11097-69-1	ug/kg, wet	13.7 U	13.7 U	13.7 U	13.7 U	14 U	14.3 U	13.4 U	14.1 U	14 U	R	43.6 U	13.4 U	13.6 U	13.8 U
PCB	PCB-1260	11096-82-1	ug/kg, wet	13.7 U	27.4	13.7 U	31.5 J	14 U	27.8 J	13.4 U	17 J	14 U	R	43.6 U	13.4 U	13.6 U	13.8 J
METALS	Aluminum	7429-90-5	mg/kg, dry	20.9 M	3670 J	14.67 J	5060 J	26.17 J	4280 J	8.877 J	2230 J	23.68 J	1170 J	5.408 J	1570 J	7.416 J	3290 J
METALS	Antimony	7440-36-0	mg/kg, dry	0.048 B	0.0444 B	0.03 UB	0.047 B	0.03 UB	0.0679 B	0.0356 B	0.0437 B	0.03 UB	0.0311 B	0.0404 B	0.0328 B	0.03 UB	0.0553 B
METALS	Arsenic	7440-38-2	mg/kg, dry	2.31 B	2.402 B	2.011 B	2.635 B	2.77 B	2.573 B	1.626 B	2.835 B	1.625 B	2.134 B	0.4745 B	0.7628 B	0.4708 B	1.337 B
METALS	Barium	7440-39-3	mg/kg, dry	0.475 M	4.157 B	0.6851 B	9.388 B	1.449 B	4.35 B	0.5724 B	7.555 B	0.8959 B	5.486 B	1.1 B	14.25 B	0.3558 B	13.44 B
METALS	Beryllium	7440-41-7	mg/kg, dry	0.497 M	0.4667 J	0.4091 J	0.47 J	0.43 J	0.512 J	0.3976 J	0.3713 J	R	R	0.5003 J	0.3818 J	0.412 J	0.3623 J
METALS	Cadmium	7440-43-9	mg/kg, dry	0.05 M	0.212 B	0.0472 B	0.106 B	0.037 B	0.1017 B	0.0485 B	0.0865 B	0.0262 B	0.0386 B	0.0665 B	0.1331 B	0.0527 B	0.1804 B
METALS	Chromium	7440-47-3	mg/kg, dry	0.714 M	12.57 J	R	17.11 J	R	14.99 J	R	7.441 J	R	4.187 J	R	5.257 J	R	11.18 J
METALS	Cobalt	7440-48-4	mg/kg, dry	0.232	2.865	0.3512	2.739	0.202	2.613	0.1719	1.64	0.2236	0.9604	0.2735	1.752	0.2626	2.863
METALS	Copper	7440-50-8	mg/kg, dry	17.2 M	245.1 B	3.457 B	89.6 B	5.79 B	79.47 B	3.559 B	91.49 B	12.87 B	13.26 B	3.276 B	57.07 B	7.302 B	72.19 B
METALS	Lead	7439-92-1	mg/kg, dry	3.28 B	1.388 B	0.0886 B	1.747 B	0.411 B	2.869 B	0.0537 B	1.162 B	0.0705 B	0.6187 B	0.0702 B	0.6252 B	0.0329 B	1.806 B
METALS	Manganese	7439-96-5	mg/kg, dry	3.02 M	113.9	9.66	116.6	5.193	100.5	2.618	165.5	6.472	129.6	7.298	135.7	3.273	178.8
METALS	Mercury	7439-97-6	mg/kg, dry	0.078 B	0.0753 B	0.0625 B	0.05 B	0.07 B	0.0452 B	0.0484 B	0.0568 B	0.0729 B	0.0425 B	0.0437 B	0.0601 B	0.0674 B	0.0435 B
METALS	Molybdenum	7439-98-7	mg/kg, dry	0.099 B	0.26 B	0.118 B	0.263 B	0.093 B	0.2675 B	0.0887 B	0.3049 B	0.0568 B	0.2294 B	0.0998 B	0.2525 B	0.0832 B	0.2939 B
METALS	Nickel	7440-02-0	mg/kg, dry	0.279 J	8.902 J	0.3648 J	12.52 J	0.34 J	11.08 J	0.2371 J	6.029 J	0.3333 J	4.185 J	0.3234 J	5.606 J	0.2901 J	9.681 J
METALS	Selenium	7782-49-2	mg/kg, dry	3.49 B	6.559	3.904 B	3.071 B	2.887 B	3.151 B	3.18 B	3.112 B	2.687 B	1.393 B	4.755 B	3.787 B	6.283	10.83
METALS	Silver	7440-22-4	mg/kg, dry	0.061 B	0.3941 B	0.0423 B	0.144 B	0.039 B	0.1633 B	0.0405 B	0.1033 B	0.0301 B	0.045 B	0.0369 B	0.0866 B	0.0315 B	0.1373 B
METALS	Thallium	7440-28-0	mg/kg, dry	0.017 B	0.0215 B	0.0162 B	0.02 B	0.018 B	0.0228 B	0.0156 B	0.0197 B	0.0108 B	0.0117 B	0.0177 B	0.0226 B	0.0156 B	0.0235 B
METALS	Vanadium	7440-62-2	mg/kg, dry	0.439	12.16	0.632	22.17	1.279	13.2	0.4236	13.19	0.6915	4.411	0.4031	9.412	0.2439	11.09
METALS	Zinc	7440-66-6	mg/kg, dry	42.5 M	138.1	39.87	114.8	47.57	100.2	45.35	106.5	49.55	91.36	63.48	117.1	44.43	121.1