

TABLE 4-5

Chemicals Detected in Surface Soil at Site DP17A (EA, 1996)

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location		DP17A-001	DP17A-002	DP17A-003	DP17A-004	DP17A-005	DP17A-006	DP17A-007
Sample ID		DP17A01	DP17A02	DP17A03	DP17A04	DP17A05	DP17A06	DP17A07
Sampling Date		2/20/96	2/20/96	2/20/96	2/20/96	2/20/96	2/20/96	2/21/96
Depth (feet)		0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Chemical Group	Analyte	CAS	Units					
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	ND	ND	ND	ND
SVOC	Di-n-butylphthalate	84-74-2	mg/kg	ND	0.12 J	ND	ND	0.11 J
PEST	4,4'-DDD	72-54-8	mg/kg	ND	ND	ND	ND	0.015 J
PEST	4,4'-DDE	72-55-9	mg/kg	0.024	ND	ND	ND	0.81
PEST	4,4'-DDT	50-29-3	mg/kg	0.047	ND	ND	ND	0.37
PEST	Endosulfan II	33213-65-9	mg/kg	ND	ND	ND	ND	0.0099 P
PEST	Endrin	72-20-8	mg/kg	ND	ND	ND	ND	0.0091 P
PEST	Endrin aldehyde	7421-93-4	mg/kg	ND	ND	ND	ND	0.0073 P
PEST	Heptachlor epoxide	1024-57-3	mg/kg	ND	ND	ND	ND	0.0042 P
PEST	Methoxychlor	72-43-5	mg/kg	ND	ND	ND	ND	0.0041 P
PCB	Aroclor-1242	53469-21-9	mg/kg	ND	ND	ND	ND	ND
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	ND	ND	ND	1.7
PCB	Aroclor-1260	11096-82-5	mg/kg	ND	ND	ND	ND	0.083
PAH	Acenaphthene	83-32-9	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (a) anthracene	56-55-3	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (a) pyrene	50-32-8	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND	ND
PAH	Chrysene	218-01-9	mg/kg	ND	ND	ND	ND	ND
PAH	Fluoranthene	206-44-0	mg/kg	ND	ND	ND	ND	ND
PAH	Fluorene	86-73-7	mg/kg	ND	ND	ND	ND	ND
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	ND	ND	ND	ND	ND
PAH	Phenanthrene	85-01-8	mg/kg	ND	ND	ND	ND	ND
PAH	Pyrene	129-00-0	mg/kg	ND	ND	ND	ND	ND
METALS	Antimony	7440-36-0	mg/kg	1.7 BE	2.5 BE	5.7 BE	7.5 BE	11.6 BE
METALS	Arsenic	7440-38-2	mg/kg	19.6 EN	28.6 EN	38.4 EN	29.3 EN	78.7 EN
METALS	Beryllium	7440-41-7	mg/kg	0.27 B	0.19 B	ND	ND	ND
METALS	Cadmium	7440-43-9	mg/kg	2.3 B	12.6	40.7	12.1	36.2
METALS	Chromium	7440-47-3	mg/kg	49.9 E	61.4 E	68.7 E	40.7 E	101 E
METALS	Copper	7440-50-8	mg/kg	24.6 N	103 N	2,740 N	370 N	658 N
METALS	Lead	7439-92-1	mg/kg	47.1	483	1,210	1,310	1,580
METALS	Mercury	7439-97-6	mg/kg	0.09 B	1.1	0.27 B	0.05 B	0.4 B
METALS	Nickel	7440-02-0	mg/kg	32.8	47.7	91.3	43.8	121
METALS	Selenium	7782-49-2	mg/kg	0.93 N*	1.1 N*	1.8 N*	1.4 N*	3.1 N*
METALS	Silver	7440-22-4	mg/kg	ND	ND	0.76 B	1.8 B	0.71 B
METALS	Zinc	7440-66-6	mg/kg	65.8 E	232 E	2,240 E	489 E	2,120 E

TABLE 4-5
Chemicals Detected in Surface Soil at Site DP17A (EA, 1996)
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location		DP17A-008	DP17A-009	DP17A-010	DP17A-011	DP17A-012	DP17A-013	DP17A-014
Sample ID		DP17A08	DP17A09	DP17A10	DP17A11	DP17A12	DP17A13	DP17A14
Sampling Date		2/21/96	2/21/96	2/21/96	2/21/96	2/21/96	2/23/96	2/23/96
Depth (feet)		0.5-1	1-1.5	1.5-2	1-2	1.5-2	1.3-1.5	1.8-2
Chemical Group	Analyte	CAS	Units					
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	0.24 J	ND	ND	ND
SVOC	Di-n-butylphthalate	84-74-2	mg/kg	ND	ND	ND	ND	ND
PEST	4,4'-DDD	72-54-8	mg/kg	ND	0.017 P	0.019 P	0.014 P	0.017 P
PEST	4,4'-DDE	72-55-9	mg/kg	0.085	0.054 P	0.045 P	0.041	0.39
PEST	4,4'-DDT	50-29-3	mg/kg	0.027 P	0.0087 P	0.019 P	ND	0.45
PEST	Endosulfan II	33213-65-9	mg/kg	ND	ND	ND	ND	ND
PEST	Endrin	72-20-8	mg/kg	ND	ND	ND	0.0052 P	ND
PEST	Endrin aldehyde	7421-93-4	mg/kg	ND	ND	ND	0.0094 P	0.0049 P
PEST	Heptachlor epoxide	1024-57-3	mg/kg	ND	ND	ND	ND	ND
PEST	Methoxychlor	72-43-5	mg/kg	ND	ND	ND	0.024	ND
PCB	Aroclor-1242	53469-21-9	mg/kg	0.22	0.22 P	0.45	0.54	2.1 P
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	ND	ND	ND	ND
PCB	Aroclor-1260	11096-82-5	mg/kg	0.082 P	ND	ND	ND	ND
PAH	Acenaphthene	83-32-9	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (a) anthracene	56-55-3	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (a) pyrene	50-32-8	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	ND	ND	ND	ND
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND	ND
PAH	Chrysene	218-01-9	mg/kg	ND	ND	ND	ND	ND
PAH	Fluoranthene	206-44-0	mg/kg	ND	ND	ND	ND	ND
PAH	Fluorene	86-73-7	mg/kg	ND	ND	ND	ND	ND
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	ND	ND	ND	ND	ND
PAH	Phenanthrene	85-01-8	mg/kg	ND	ND	ND	ND	ND
PAH	Pyrene	129-00-0	mg/kg	ND	ND	ND	ND	ND
METALS	Antimony	7440-36-0	mg/kg	43.4 BE	24.3 BE	23.8 BE	11.8 BE	565 EN
METALS	Arsenic	7440-38-2	mg/kg	54.2 E	61.7 E	46.9 E	38.7 E	44.65 E
METALS	Beryllium	7440-41-7	mg/kg	ND	0.23 B	0.18 B	0.2 B	0.185 B
METALS	Cadmium	7440-43-9	mg/kg	33.8	35.2	30.3	16.2	22.05
METALS	Chromium	7440-47-3	mg/kg	94 E	130 E	96.6 E	102 E	95 E
METALS	Copper	7440-50-8	mg/kg	1,440 *	1,780 *	491 *	896 *	703.5 *
METALS	Lead	7439-92-1	mg/kg	1,560 *	2,210 *	1,800 *	1,350 *	1,239 *
METALS	Mercury	7439-97-6	mg/kg	0.46 B	0.56	0.46 B	0.27 B	0.735
METALS	Nickel	7440-02-0	mg/kg	117 E	125 E	113 E	78.2 E	84.05 E
METALS	Selenium	7782-49-2	mg/kg	3.5 N	3.7 N	4.1 N	2.4 N	2.7 N
METALS	Silver	7440-22-4	mg/kg	ND	0.67 B	ND	2.2 B	5.65 B
METALS	Zinc	7440-66-6	mg/kg	1,970	2,950	2,040	1,340	2,190

Notes:

Chemical Groups

SVOC = semivolatile organic compounds
PEST = pesticides
PCB = polychlorinated biphenyls
PAH = polynuclear aromatic hydrocarbons

Abbreviations

mg/kg = milligrams per kilogram

Data Qualifiers

B = The analyte was found in an associated blank, as well as in the sample.
N = *Organic* - presumptive evidence of compound; *Inorganic* - spiked sample recovery is not within control limits.
J = The analyte was positively identified; the quantitation is an estimation.
E = Reported value is estimated because of presence of interference (applies to inorganic parameters in PA/SI data).
P = Used for GC analysis when there is greater than 25% difference for detected concentrations between the two GC columns.
* = Duplicate analysis not within control limits.
ND = Not detected.