Table 5-9
Summary Statistics for Dioxin and Furan Concentrations in Subsurface Sediment Samples from within USEPA's Preliminary Site Perimeter

Analyte	Number of Samples	Number of Detected Measurements	Detection Frequency	Minimum (ng/kg dw)	Maximum (ng/kg dw)	Mean (ng/kg dw)
2,3,7,8-TCDD	135	74	55%	0.0183	18,800	883
1,2,3,7,8-PeCDD	135	52	39%	0.0124	134	6.12
1,2,3,4,7,8-HxCDD	135	52	39%	0.014	2.15	0.292
1,2,3,6,7,8-HxCDD	135	88	65%	0.0135	14.3	1.21
1,2,3,7,8,9-HxCDD	135	95	70%	0.0136	5.59	0.972
1,2,3,4,6,7,8-HpCDD	135	134	99%	0.4	252	33.8
OCDD	135	135	100%	13	6,270	895
2,3,7,8-TCDF	135	98	73%	0.0132	72,900	2,670
1,2,3,7,8-PeCDF	135	56	41%	0.0118	1,700	87.4
2,3,4,7,8-PeCDF	135	59	44%	0.0107	1,050	48.8
1,2,3,4,7,8-HxCDF	135	72	53%	0.0052	2,800	142
1,2,3,6,7,8-HxCDF	135	70	52%	0.00515	671	33.1
1,2,3,7,8,9-HxCDF	135	23	17%	0.0091	35.1	1.60
2,3,4,6,7,8-HxCDF	135	40	30%	0.0056	79.9	4.13
1,2,3,4,6,7,8-HpCDF	135	75	56%	0.00995	804	40.2
1,2,3,4,7,8,9-HpCDF	135	51	38%	0.0172	270	13.2
OCDF	135	84	62%	0.018	702	56.4
$TEQ_{DF,M}$	135	135	100%	0.0593	26,900	1,190

Notes

For all calculations, concentrations below the detection limit were set to one-half the detection limit. $TEQ_{DF,M}$ (ND=1/2DL) = Toxicity equivalent for 2,3,7,8-TCDD calculated using dioxins and furans and mammalian toxicity equivalency factors (Van den Berg et al. 2006) with non detects set at one-half the detection limit.

dw = dry weight

USEPA = U.S. Environmental Protection Agency