

**Appendix H2: Percent Contribution of
Detected Noncarcinogenic Chemicals
to Health Endpoint**

**Anadromous Fish: Pacific lamprey
Whole body samples**

Sample Type	Endpoint	Chemical	Percent Contribution Site	
			21	24
FS	Liver	Aldrin		
FS	Liver	Chlordane (total)	23.3	23.0
FS	Liver	Total DDT	50.8	51.3
FS	Liver	Hexachlorobenzene	2.6	2.7
FS	Liver	Heptachlor		
FS	Liver	Heptachlor Epoxide		
FS	Liver	Lindane		
FS	Liver	Thallium		
FS	Liver	Mirex		
FS	Liver	2,4,5-Trichlorophenol		
FS	Liver	Pentachlorophenol		
FS	Liver	Acenaphthene		
FS	Liver	Fluoranthene		0.1
FS	Liver	2-Chloronaphthalene		
FS	Liver	2,4-Dinitrotoluene		
FS	Liver	2,6-Dinitrotoluene		
FS	Liver	Selenium	23.4	23.0
FS	Liver	Nitrobenzene		
FS	Adrenal gland	Nitrobenzene		
FS	Adrenal gland	1,2,4-Trichlorobenzene		
FS	Kidney	Endosulfan Sulfate		
FS	Kidney	Lindane		
FS	Kidney	2,4,5-Trichlorophenol		
FS	Kidney	Pentachlorophenol		
FS	Kidney	2,6-Dinitrotoluene		
FS	Kidney	Hexachloroethane		
FS	Kidney	Nitrobenzene		
FS	Kidney	Fluoranthene		0.4
FS	Kidney	Pyrene		
FS	Kidney	Cadmium	100	99.6
FS	Blood formation	2,4-Dimethylphenol		
FS	Blood formation	bis(2-Chloroisopropyl)ether		
FS	Blood formation	Nitrobenzene		
FS	Blood formation	2,4-Dinitrotoluene		
FS	Blood formation	2,6-Dinitrotoluene		
FS	Blood formation	9H-Fluorene		
FS	Blood formation	Fluoranthene		100
FS	Cardiovascular	Arsenic	100	100
FS	Cardiovascular	Endosulfan Sulfate		
FS	Central Nervous System	Manganese	100	0.1
FS	Central Nervous System	Mercury		99.9
FS	Central Nervous System	2,4-Dinitrotoluene		
FS	Central Nervous System	2,6-Dinitrotoluene		
FS	Immune System	2,4-Dichlorophenol		
FS	Immune System	Total Aroclors	100	100
FS	Metabolism	Naphthalene		
FS	Metabolism	Antimony		
FS	Metabolism	Nickel		16.2
FS	Metabolism	Zinc	100	83.8
FS	Reproduction and development	Phenol		
FS	Reproduction and development	2-Chlorophenol		
FS	Reproduction and development	Mercury		100
WB	Liver	Aldrin		na
WB	Liver	Chlordane (total)	13.3	na
WB	Liver	Total DDT	46.2	na
WB	Liver	Hexachlorobenzene	1.7	na
WB	Liver	Heptachlor		na
WB	Liver	Heptachlor Epoxide		na
WB	Liver			na
WB	Liver	Mirex		na
WB	Liver	Thallium		na
WB	Liver	2,4,5-Trichlorophenol		na
WB	Liver	Pentachlorophenol		na
WB	Liver	Acenaphthene		na
WB	Liver	Fluoranthene		na
WB	Liver	2-Chloronaphthalene		na
WB	Liver	2,4-Dinitrotoluene		na
WB	Liver	2,6-Dinitrotoluene		na
WB	Liver	Selenium	38.8	na
WB	Liver	Nitrobenzene		na

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to Health Endpoint**

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Whole body samples**

Sample Type	Endpoint	Chemical	Percent Contribution	
			Site 21	Site 24
WB	Adrenal gland	Nitrobenzene		na
WB	Adrenal gland	1,2,4-Trichlorobenzene		na
WB	Kidney	Endosulfan Sulfate		na
WB	Kidney	Lindane		na
WB	Kidney	2,4,5-Trichlorophenol		na
WB	Kidney	Pentachlorophenol		na
WB	Kidney	2,6-Dinitrotoluene		na
WB	Kidney	Hexachloroethane		na
WB	Kidney	Nitrobenzene		na
WB	Kidney	Fluoranthene		na
WB	Kidney	Pyrene		na
WB	Kidney	Cadmium	100	na
WB	Blood formation	2,4-Dimethylphenol		na
WB	Blood formation	bis(2-Chloroisopropyl)ether		na
WB	Blood formation	Nitrobenzene		na
WB	Blood formation	2,4-Dinitrotoluene		na
WB	Blood formation	2,6-Dinitrotoluene		na
WB	Blood formation	9H-Fluorene		na
WB	Blood formation	Fluoranthene		na
WB	Cardiovascular	Arsenic	100	na
WB	Cardiovascular	Endosulfan Sulfate		na
WB	Central Nervous System	Manganese	0.4	na
WB	Central Nervous System	Mercury	99.6	na
WB	Central Nervous System	2,4-Dinitrotoluene		na
WB	Central Nervous System	2,6-Dinitrotoluene		na
WB	Immune System	2,4-Dichlorophenol		na
WB	Immune System	Total Aroclors	100	na
WB	Metabolism	Naphthalene		na
WB	Metabolism	Antimony		na
WB	Metabolism	Nickel	1.2	na
WB	Metabolism	Zinc	98.8	na
WB	Reproduction and development	Phenol		na
WB	Reproduction and development	2-Chlorophenol		na
WB	Reproduction and development	Mercury	100	na

NOTE:

Health endpoints with only one contributing chemical are not shown: gastrointestinal or intestinal lesions (beryllium), argyria (silver), thyroid (mirex), clinical signs (2,4-Dimethylphenol), selenosis (selenium), and hyperpigmentation/keratosis (arsenic).

Blank cell indicates that chemical was not detected.

na - sample type was not analyzed at that site

FS - fillet with skin

WB - whole body

Chlordane (total) - sum of cis-chlordane, cis-nonachlor, gamma-chlordane, oxychlordane, and trans-nonachlor

Total Aroclors - sum of Aroclors: 1254 in FS and at Site 24 in WB, 1254 and 1260 at Site 21 in WB; risk calculated using RfD for Aroclor 1254

Total DDT - sum of o,p' and p,p' isomers of DDT and its derivatives (DDD and DDE); risk calculated using RfD for DDT

Site 21 - located in the Willamette River

Site 24 - located in the Fifteen Mile Creek