

Salmon River: Water Quality Assessment and Recommended Objectives

Technical Appendix - Volume II

Prepared for:

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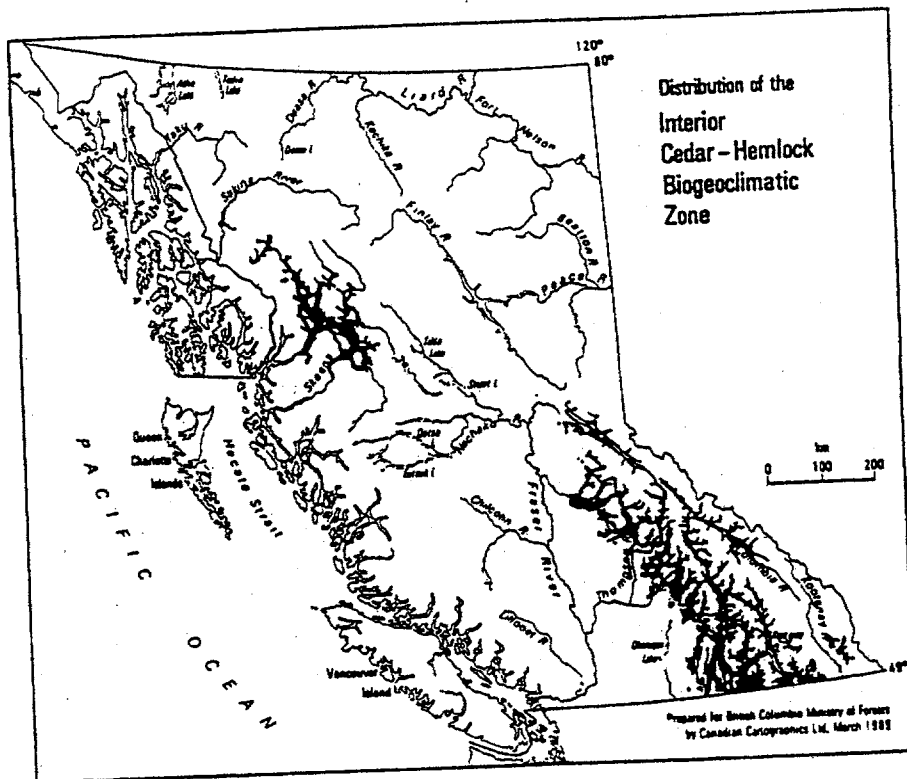
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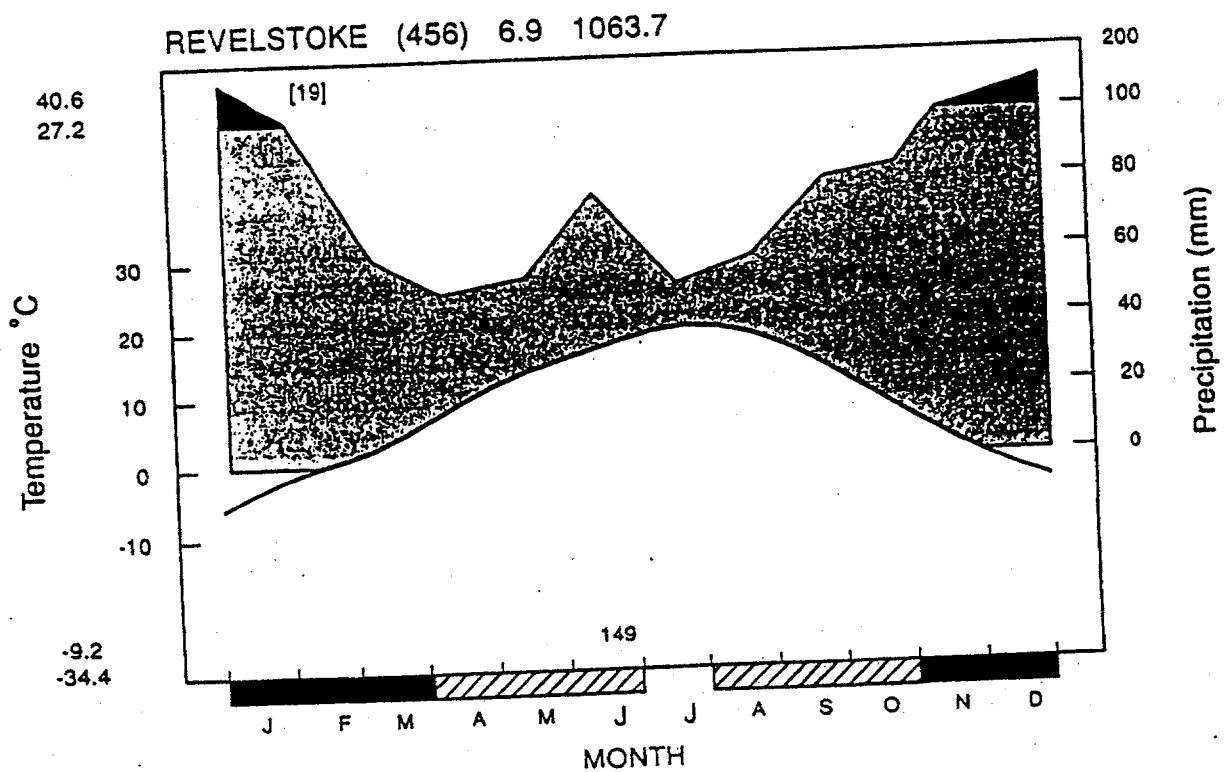
Appendix I

Biogeoclimatic Zones of the Salmon River Watershed

(Meidinger and Pojar 1991)



Interior Cedar — Hemlock zone.



Representative climatic diagram for the Interior Cedar — Hemlock zone.

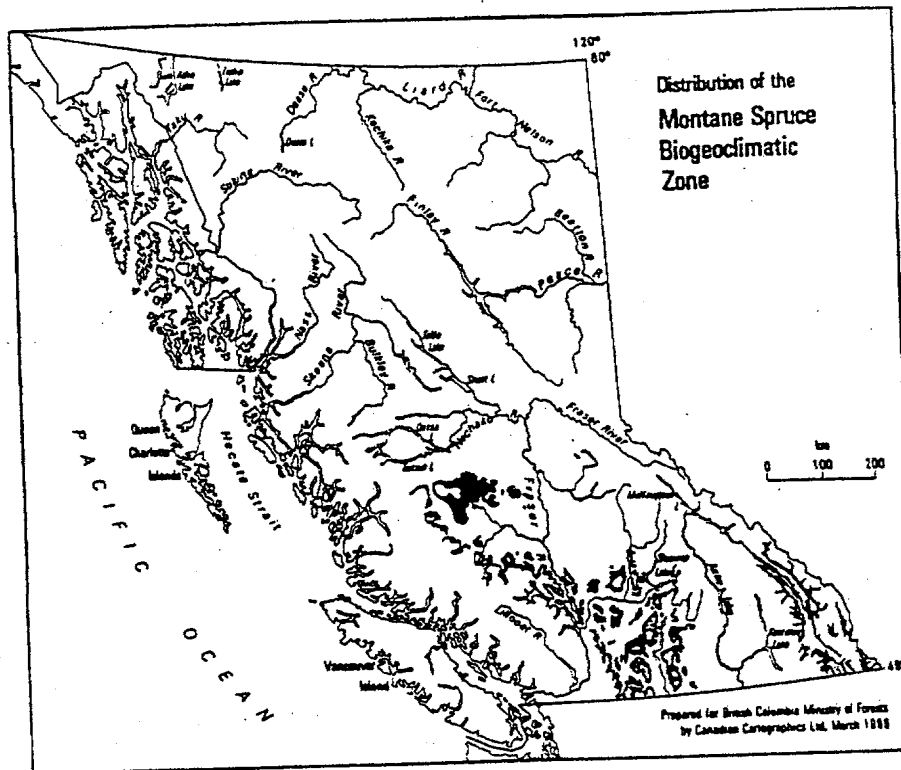
Selected wildlife habitats and species in the Interior Cedar — Hemlock zone (adapted from Wildlife Branch 1989)

Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk
Old-growth and mature coniferous forests	Common, dwindling	Moose, Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Wolverine, Marten, Red Squirrel, Southern Red-backed Vole Barred Owl, Boreal Owl, Great Gray Owl, Great Horned Owl, Northern Pygmy Owl, Long-eared Owl, Saw-whet Owl, Pileated Woodpecker, Steller's Jay, Gray Jay, Varied Thrush, Golden-crowned Kinglet, Townsend's Warbler, Bohemian Waxwing, Red Crossbill, Winter Wren, Mountain Chickadee	♦ Caribou, Grizzly Bear, Red-tailed Chipmunk, Northern Long-eared Myotis ▽ Townsend's Big-eared Bat
South aspect forests	Common	Moose, Mule Deer, White-tailed Deer, Rocky Mountain Elk, Mountain Goat, Black Bear, Cougar, Yellow-bellied Marmot, Golden-mantled Ground Squirrel Golden Eagle, Ruffed Grouse, Great Horned Owl Rubber Boa	♦ Grizzly Bear
Young seral forests	Extensive	Moose, Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Cougar, Coyote Ruffed Grouse, Downy Woodpecker, Steller's Jay, American Robin, Dusky Flycatcher	♦ Northern Long-eared Myotis
Clearcuts and burns	Limited areal extent	Moose, Mule Deer, White-tailed Deer, Rocky Mountain Elk, Cougar Golden Eagle, Ruffed Grouse, Black-backed Woodpecker, Three-toed Woodpecker, Olive-sided Flycatcher, Western Bluebird, Townsend's Solitaire	♦ Lewis' Woodpecker, Northern Long-eared Myotis
Riparian areas, wetlands, meadows, and floodplains	Common, not extensive	Moose, Caribou, Mule Deer, Grizzly Bear, Black Bear, Gray Wolf, Lynx, Badger, Beaver, Muskrat, Columbian Ground Squirrel American Kestrel, Blue Grouse, Ruffed Grouse, Mountain Bluebird Western Terrestrial Garter Snake, Northern Alligator Lizard, Rubber Boa, Western Skink, Western Toad, Pacific Treefrog, Spotted Frog, Wood Frog	▽ Forster's Tern ♦ Caribou, Grizzly Bear, Northern Long-eared Myotis, Great Blue Heron, Coeur d'Alene Salamander
Lakes and streams	Common	Moose, Beaver, Muskrat, Little Brown Myotis, Water Shrew Bald Eagle, Tundra Swan, Canada Goose, Common Loon, Bonaparte's Gull, Red-necked Grebe, Eared Grebe, American Avocet Painted Turtle, Spotted Frog, Wood Frog	▽ Forster's Tern ♦ Northern Long-eared Myotis, Great Blue Heron, Western Grebe, Coeur d'Alene Salamander, Tailed Frog

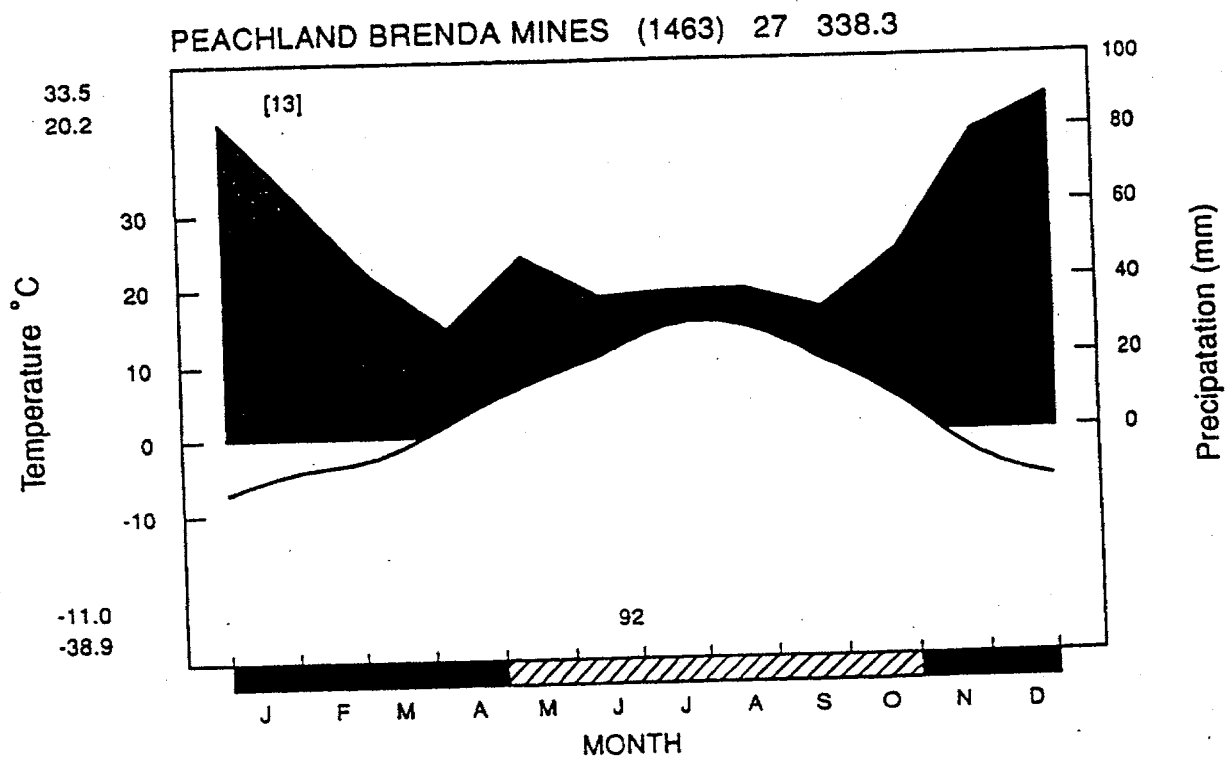
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Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk ^a
Avalanche tracks	Common in mountains	Rocky Mountain Elk, Black Bear, Badger, Columbian Ground Squirrel	◆ Grizzly Bear, Caribou
Rocky cliffs and talus	Limited areal extent	Mountain Goat, Yellow-bellied Marmot, Golden-mantled Ground Squirrel, Columbian Ground Squirrel, Common Pika	◆ Red-tailed Chipmunk
Agricultural areas	Limited areal extent	Mule Deer, White-tailed Deer, Rocky Mountain Elk, Black Bear, Columbian Ground Squirrel Northern Harrier, Red-tailed Hawk, American Kestrel, Sandhill Crane, Eastern Kingbird, Western Kingbird, Mountain Bluebird	◆ Grizzly Bear

- ^a Wildlife species and subspecies at risk are those on the preliminary Red and Blue Lists proposed in the Provincial Wildlife Strategy, B.C. Ministry of Environment (October 1989 draft).
- ▽ Red-listed wildlife species. These are being considered by the Wildlife Branch for designation as endangered or threatened in British Columbia.
- ◆ Blue-listed wildlife species. The Wildlife Branch considers these species "sensitive" and/or deserving of management attention. Population viability is a concern for these species because of (a) major declines in population numbers; or (b) major changes in habitat that will further reduce existing distribution. Species that are generally suspected of being vulnerable, but for which information is too limited to allow designation in another category, are included in this category.



Montane Spruce zone.



Representative climatic diagram for the Montane Spruce zone.

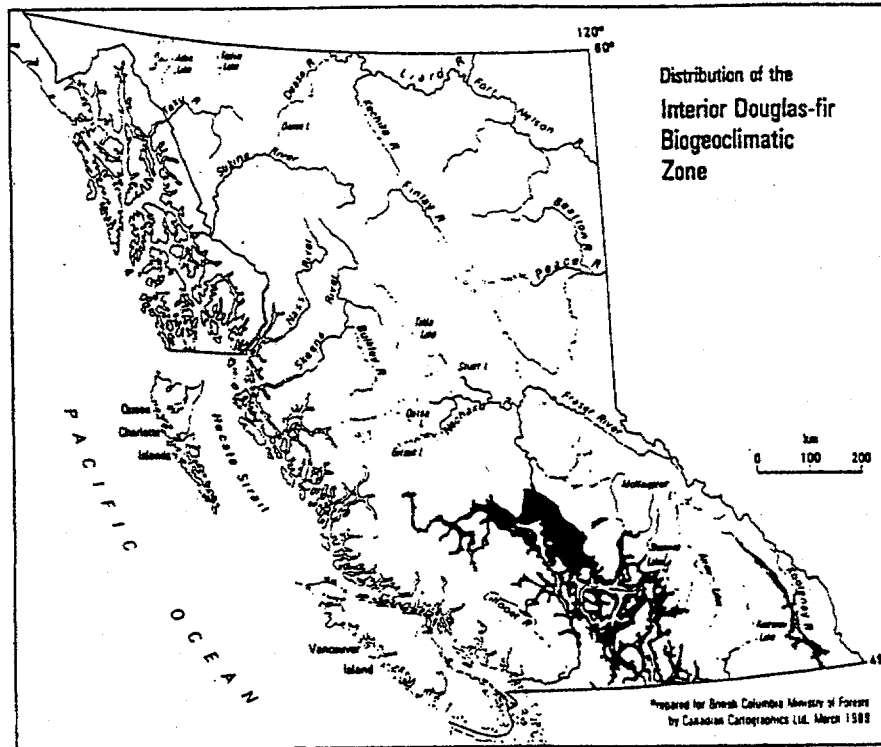
Selected wildlife habitats and species in the Montane Spruce zone
(adapted from Wildlife Branch 1989)

Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk*
Young seral forests	Extensive	Moose, Mule Deer, Black Bear, Lynx, Coyote, Little Brown Myotis, Snowshoe Hare, Porcupine, Heather Vole, Deer Mouse, Masked Shrew Northern Goshawk, Northern Hawk Owl, Northern Pygmy-Owl, Ruffed Grouse, Three-toed Woodpecker, Black-backed Woodpecker, Wilson's Warbler, Rufous Hummingbird, Pine Grosbeak, Western Tanager, Dark-eyed Junco, Yellow-rumped Warbler	♦ Grizzly Bear
Mature coniferous forests	Extensive	Moose, Mule Deer, Cougar, Lynx, Coyote, Black Bear, Fisher, Marten, Red Squirrel, Snowshoe Hare, Silver-haired Bat, Little Brown Myotis, Long-legged Myotis, Southern Red-backed Vole, Deer Mouse, Masked Shrew Barred Owl, Great Gray Owl, Spruce Grouse, Pileated Woodpecker, Black-backed Woodpecker, Three-toed Woodpecker, Steller's Jay, Clark's Nutcracker, Varied Thrush, Red Crossbill, Golden-crowned Kinglet, Mountain Chickadee, Red-breasted Nuthatch Long-toed Salamander	♦ Caribou, Grizzly Bear
Steep, south aspect grasslands	Limited areal extent	Rocky Mountain Elk, Mule Deer, Cougar, Golden-mantled Ground Squirrel Golden Eagle, Blue Grouse, Mountain Bluebird	♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep, Grizzly Bear
Avalanche tracks	Limited areal extent	Mountain Goat, Moose, Rocky Mountain Elk, Mule Deer, Black Bear	♦ Grizzly Bear
Rocky cliffs and talus	Limited areal extent	Mountain Goat, Common Pika, Golden-mantled Ground Squirrel Golden Eagle	♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep
Riparian areas, wetlands, meadows, floodplains, lakes, and streams	Common, limited areal extent	Moose, Mule Deer, Black Bear, Coyote, Long-tailed Weasel, Little Brown Myotis, Water Vole, Deer Mouse, Western Jumping Mouse, Meadow Jumping Mouse Ruffed Grouse, Harlequin Duck, American Dipper Western Toad, Spotted Frog, Long-toed Salamander	♦ Caribou, Grizzly Bear, Tailed Frog

* Wildlife species and subspecies at risk are those on the preliminary Red and Blue Lists proposed in the Provincial Wildlife Strategy, B.C. Ministry of Environment (October 1989 draft).

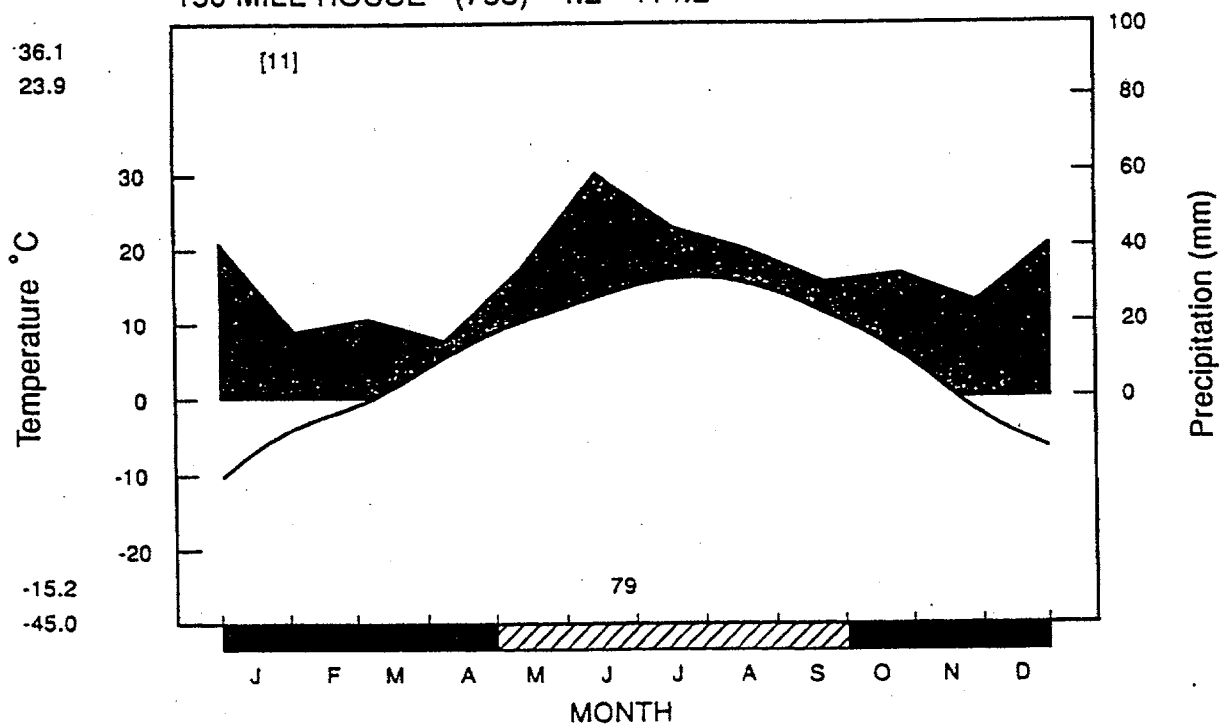
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Interior Douglas-fir zone.

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Representative climatic diagram for the Interior Douglas-fir zone.

Selected wildlife habitats and species in the Interior Douglas-fir zone
(adapted from Wildlife Branch 1989)

Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk ^a
Old-growth and mature coniferous forest	Extensive	Rocky Mountain Elk, Black-tailed Deer, Mule Deer, White-tailed Deer, Black Bear, Cougar, Bobcat, Coyote, Big Brown Bat, Hoary Bat, Red Squirrel, Southern Red-backed Vole Northern Pygmy-Owl, Blue Grouse, Pileated Woodpecker, Clark's Nutcracker, Red-naped Sapsucker, Red-breasted Nuthatch Rubber Boa, Pacific Treefrog	▽ Flammulated Owl ♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep, Williamson's Sapsucker
Young seral forest	Extensive	Moose, Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Cougar, Coyote, Badger, Northern Pocket Gopher Ruffed Grouse	
South aspect Douglas-fir and ponderosa pine parkland	Common	Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Cougar, Coyote, Badger, Big Brown Bat, Northern Pocket Gopher, Golden-mantled Ground Squirrel Swainson's Hawk, Blue Grouse, White-breasted Nuthatch Western Yellow-bellied Racer, Rubber Boa	▽ Townsend's Big-eared Bat, Flammulated Owl, Common Poorwill ♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep, White-headed Woodpecker, Western Rattlesnake, Gopher Snake
Bunchgrass grassland	Common in some areas	Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Cougar, Coyote, Badger, Yellow-bellied Marmot, Golden-mantled Ground Squirrel Golden Eagle, Red-tailed Hawk, Turkey Vulture, Short-eared Owl, Sharp-tailed Grouse, Long-billed Curlew, Sandhill Crane, Black-billed Magpie, Mountain Bluebird Western Yellow-bellied Racer, Great Basin Spadefoot Toad	▽ Burrowing Owl, Prairie Falcon, Common Poorwill ♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep, Great Basin Pocket Mouse, Lewis' Woodpecker, Western Rattlesnake, Gopher Snake
Rocky cliffs and talus	Limited areal extent	Mountain Goat, Common Pika, Yellow-bellied Marmot, Yellow-pine Chipmunk, Western Long-eared Myotis Turkey Vulture, White-throated Swift Western Yellow-bellied Racer	♦ Western Rattlesnake, Gopher Snake
Agricultural areas	Limited areal extent	Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Coyote, Ermine, Columbian Ground Squirrel, Deer Mouse American Kestrel, Canada Goose, Mountain Bluebird	♦ Lewis' Woodpecker

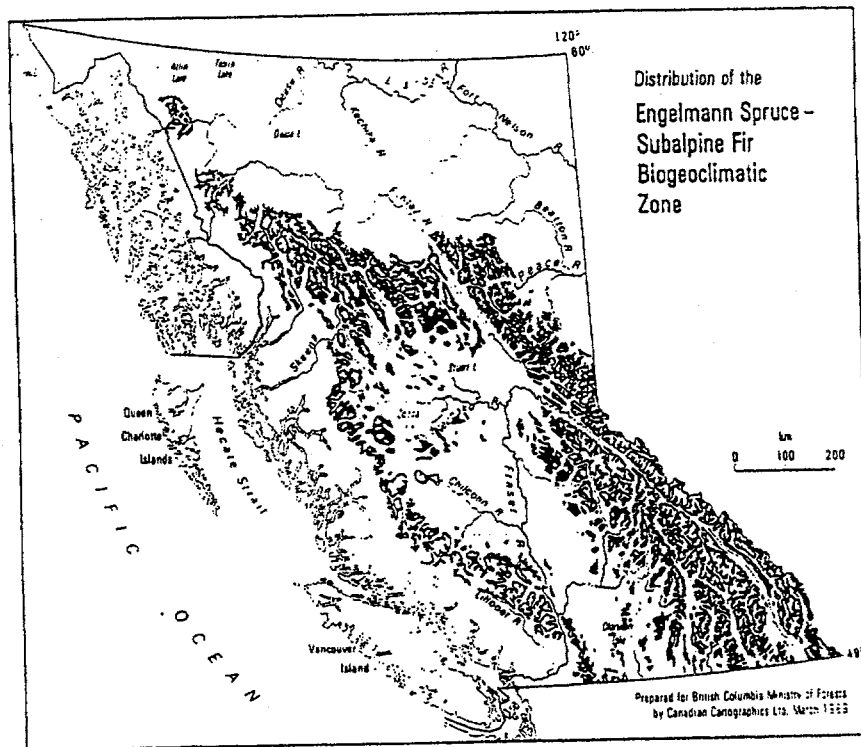
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Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk ^a
Riparian areas, wetlands, meadows and floodplains	Common, limited areal extent	Moose, Rocky Mountain Elk, Mule Deer, White-tailed Deer, Black Bear, Lynx, Mink, Big Brown Bat American Kestrel, Blue Grouse, Ruffed Grouse, Sharp-tailed Grouse, Mountain Bluebird, Le Conte's Sparrow Rubber Boa, Northern Alligator Lizard, Western Skink, Western Toad, Wood Frog, Northern Leopard Frog, Great Basin Spadefoot Toad	▽ Tiger Salamander ◆ Grizzly Bear, Great Blue Heron, Yellow-headed Blackbird
Lakes and streams	Common	Black Bear, Mink, Little Brown Myotis, California Myotis, Beaver, Muskrat Bald Eagle, Osprey, Canada Goose, Trumpeter Swan, Canada Goose, Sandhill Crane, Virginia Rail, Eared Grebe, Wood Duck, Bufflehead, Common Goldeneye, Barrow's Goldeneye, American Avocet, Black Tern, Ring-billed Gull, Bonaparte's Gull Painted Turtle, Spotted Frog, Long-toed Salamander, Great Basin Spadefoot Toad	▽ Tiger Salamander ◆ California Gull, Great Blue Heron

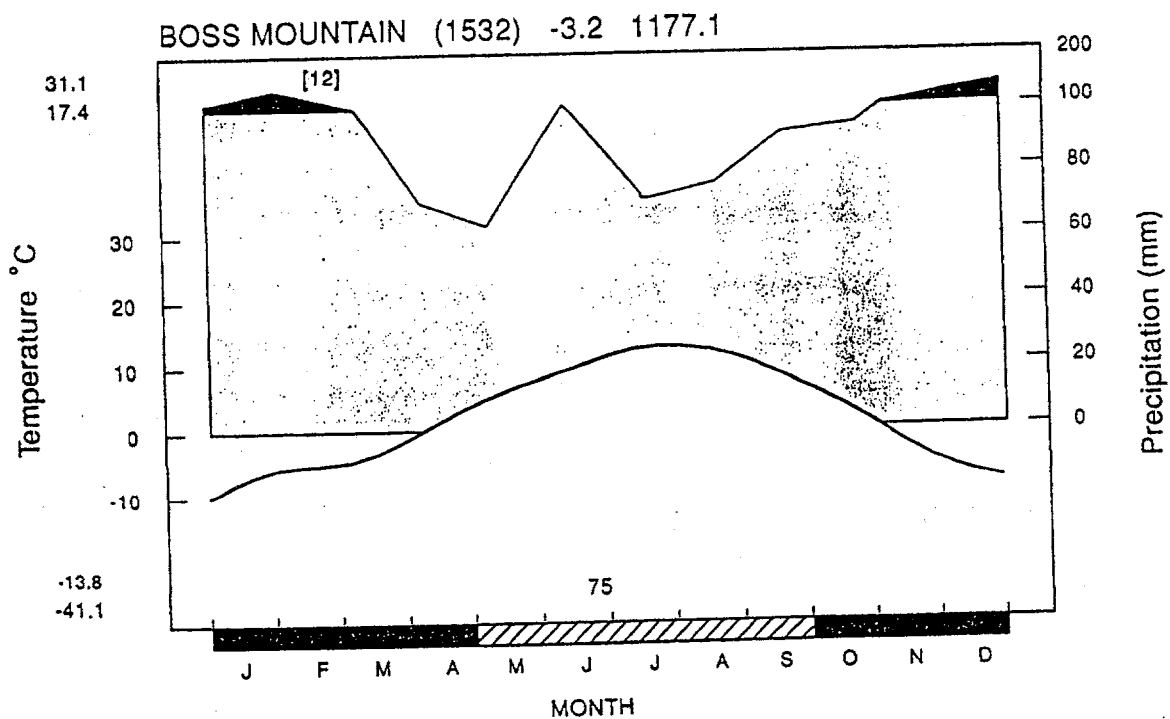
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Engelmann Spruce — Subalpine Fir zone.



Representative climatic diagram for the Engelmann Spruce — Subalpine Fir zone.

Selected wildlife habitats and species in the Engelmann Spruce —
Subalpine Fir zone (adapted from Wildlife Branch 1989)

Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk*
Old-growth and mature coniferous forests	Extensive	Moose, Mule Deer, Cougar, Lynx, Gray Wolf, Coyote, Black Bear, Wolverine, Fisher, Marten, Red Squirrel, Northern Flying Squirrel, Snowshoe Hare, Silver-haired Bat, Little Brown Myotis, Long-legged Myotis, Southern Red-backed Vole, Deer Mouse, Masked Shrew Barred Owl, Great Gray Owl, Blue Grouse, Spruce Grouse, Black-backed Woodpecker, Three-toed Woodpecker, Steller's Jay, Clark's Nutcracker, Varied Thrush, Red Crossbill, White-winged Crossbill, Pine Siskin, Hammond's Flycatcher, Cassin's Finch, Golden-crowned Kinglet, Mountain Chickadee, Red-breasted Nuthatch, Winter Wren Long-toed Salamander	▽ Spotted Owl ♦ Caribou, Grizzly Bear, Tailed Frog
Subalpine parkland meadows	Limited areal extent	Mountain Goat, Moose, Mule Deer, Rocky Mountain Elk, Black Bear, Coyote, Badger, Long-tailed Weasel, Porcupine, Hoary Marmot, Columbian Ground Squirrel, Golden-mantled Ground Squirrel Blue Grouse, Golden-crowned Sparrow, Fox Sparrow, American Robin, Rufous Hummingbird	▽ Cascade Mantled Ground Squirrel ♦ Caribou, California Bighorn Sheep, Rocky Mountain Bighorn Sheep, Grizzly Bear, Red-tailed Chipmunk
Young seral forests	Extensive	Moose, Mule Deer, Black Bear, Lynx, Coyote, Little Brown Myotis, Snowshoe Hare, Porcupine, Heather Vole, Deer Mouse, Masked Shrew Northern Goshawk, Northern Hawk Owl, Northern Pygmy-Owl, Three-toed Woodpecker, Black-backed Woodpecker, Wilson's Warbler, Rufous Hummingbird, Pine Grosbeak, Western Tanager, Dark-eyed Junco, Yellow-rumped Warbler, Bohemian Waxwing	♦ Grizzly Bear
Steep, rugged, south aspect grasslands	Limited areal extent	Mountain Goat, Cougar, Hoary Marmot, Golden-mantled Ground Squirrel Golden Eagle, Blue Grouse	♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep
Avalanche tracks	Common in mountains	Mountain Goat, Moose, Rocky Mountain Elk, Mule Deer, Black Bear	♦ Grizzly Bear
Rocky cliffs, talus, and sparsely vegetated rocks	Common in mountains	Mountain Goat, Common Pika, Columbian Ground Squirrel, Golden-mantled Ground Squirrel Golden Eagle	▽ Cascade Mantled Ground Squirrel, Anatum Peregrine Falcon ♦ California Bighorn Sheep, Rocky Mountain Bighorn Sheep

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Habitat	Habitat distribution	Representative wildlife species	Wildlife species at risk ^a
Riparian areas, wetlands, meadows, floodplains, lakes, and streams	Common	Moose, Mule Deer, Black Bear, Coyote, Long-tailed Weasel, Little Brown Myotis, Beaver, Water Vole, Deer Mouse, Western Jumping Mouse, Meadow Jumping Mouse Ruffed Grouse, Harlequin Duck, American Dipper Western Toad, Spotted Frog, Cascades Frog, Long-toed Salamander	♦ Caribou, Grizzly Bear, Mountain Beaver, Tailed Frog, Cascades Frog

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Appendix II

Yearly Water Quality Summary Statistics for Station BC08LE0004 on the Salmon River

Data compiled from Environment Canada ENVIRODAT
database (EC Info World Wide Web 1997)

Table A2.1. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1988.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	17	NA	8.39	6.79	8.55
Nonfilterable Residues	mg/L	3	32.7	12	10	76
Specific Conductance	µsie/cm	17	308	366	111	415
Hardness	mg/L	17	150	176	50.5	205
Alkalinity	mg/L	17	133	156	41.3	180
Temperature	°C	17	11.1	12	0	20
Turbidity	NTU	17	4.46	1.8	0.65	24
Major Ions						
Calcium Dissolved	mg/L	17	40.2	46.6	14.7	55.6
Chloride Dissolved	mg/L	17	2.17	2.4	0.9	3.2
Fluoride Dissolved	mg/L	17	0.119	0.138	0.05	0.183
Sulphate Dissolved	mg/L	17	34.7	40.7	10.9	52.5
Sodium Dissolved	mg/L	17	9.86	11.4	3.6	12.8
Major Nutrients						
Potassium Dissolved	mg/L	17	2.8	3	1.4	4.1
Nitrogen Dissolved	mg/L	17	0.170	0.137	0.0683	0.445
Nitrate and Nitrite Dissolved	mg/L	17	0.060	0.0358	0.002	0.248
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	0	NR	NR	0	0
Nitrate Dissolved	mg/L	0	NR	NR	0	0
Phosphorous Total	mg/L	17	0.116	0.0827	0.0477	0.518
Metals and Metalloids						
Aluminium Total	µg/L	0	NR	NR	0	0
Arsenic Total	µg/L	17	0.865	0.800	0.600	1.400
Barium Total	µg/L	0	NR	NR	0	0
Bromide Dissolved	µg/L	0	NR	NR	0	0
Cadmium Total	µg/L	17	0.106	0.1	0.1	0.2
Chromium Total	µg/L	0	NR	NR	0	0
Cobalt Total	µg/L	0	NR	NR	0	0
Copper Total	µg/L	17	31.7	11.6	0.8	165
Iron Total	µg/L	17	908	352	247	5420
Lead Total	µg/L	17	2.16	1.3	0.7	9
Manganese Total	µg/L	17	77.2	56	36	313
Mercury Total	µg/L	16	0.028	0.01	0.01	0.07
Molybdneum Total	µg/L	0	NR	NR	0	0
Nickel Total	µg/L	0	NR	NR	0	0
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	0	NR	NR	0	0
Zinc Total	µg/L	17	9.64	3.6	1.3	80

Table A2.2. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	28	NA	8.34	7.92	8.52
Nonfilterable Residues	mg/L	6	105.167	90	22	227
Specific Conductance	µsie/cm	28	325.714	378	102	491
Hardness	mg/L	27	156	169	45.7	232
Alkalinity	mg/L	28	144	163	41.8	206
Temperature	°C	28	7.9	8	0	20
Turbidity	NTU	28	3.17	1	0.36	18
Major Ions						
Calcium Dissolved	mg/L	24	41.5	46.6	13	60.9
Chloride Dissolved	mg/L	28	2.59	2.8	1.1	4.4
Fluoride Dissolved	mg/L	28	0.160	0.172	0.073	0.219
Sulphate Dissolved	mg/L	28	34.3	36.3	7.8	62
Sodium Dissolved	mg/L	23	10.5	11.5	3.5	14.6
Major Nutrients						
Potassium Dissolved	mg/L	23	2.86	3.1	1.4	4.1
Nitrogen Dissolved	mg/L	28	0.183	0.174	0.055	0.327
Nitrate and Nitrite Dissolved	mg/L	28	0.090	0.0595	0.01125	0.241
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	0	NR	NR	0	0
Nitrate Dissolved	mg/L	0	NR	NR	0	0
Phosphorous Total	mg/L	28	0.095	0.0614	0.015	0.3018
Metals and Metalloids						
Aluminium Total	µg/L	0	NR	NR	0	0
Arsenic Total	µg/L	23	0.900	0.900	0.700	1.800
Barium Total	µg/L	0	NR	NR	0	0
Bromide Dissolved	µg/L	0	NR	NR	0	0
Cadmium Total	µg/L	23	0.161	0.1	0.1	1.1
Chromium Total	µg/L	0	NR	NR	0	0
Cobalt Total	µg/L	0	NR	NR	0	0
Copper Total	µg/L	23	29.5	13.2	1	120
Iron Total	µg/L	23	1133	272	155	8390
Lead Total	µg/L	23	1.43	0.8	0.7	4.8
Manganese Total	µg/L	23	63.1	43	32	202
Mercury Total	µg/L	23	0.042	0.04	0.01	0.11
Molybdneum Total	µg/L	0	NR	NR	0	0
Nickel Total	µg/L	0	NR	NR	0	0
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	0	NR	NR	0	0
Zinc Total	µg/L	23	7.18	1.7	0.5	82.3

Table A2.3. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1990.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	23	NA	8.2	7.9	8.5
Nonfilterable Residues	mg/L	1	10	10	10	10
Specific Conductance	µsie/cm	23	350.565	393	152	460
Hardness	mg/L	23	161.161	182.000	66.8	215
Alkalinity	mg/L	23	147.887	167	62.8	193
Temperature	°C	23	7.54	6.5	2	16
Turbidity	NTU	23	2.02	0.75	0.1	10
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	23	2.95	3.4	1.1	4.4
Fluoride Dissolved	mg/L	23	0.178	0.2	0.06	0.27
Sulphate Dissolved	mg/L	23	33.5	40.1	11.3	48
Sodium Dissolved	mg/L	0	NR	NR	0	0
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	23	0.297	0.29	0.0783	0.707
Nitrate and Nitrite Dissolved	mg/L	23	0.149	0.114	0.00933	0.479
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	0	NR	NR	0	0
Nitrate Dissolved	mg/L	0	NR	NR	0	0
Phosphorous Total	mg/L	23	0.108	0.077	0.0487	0.343
Metals and Metalloids						
Aluminium Total	µg/L	20	670.100	269	45	3110
Arsenic Total	µg/L	20	0.915	0.850	0.3	1.700
Barium Total	µg/L	20	27.545	26.3	19.400	46.200
Bromide Dissolved	µg/L	0	NR	NR	0	0
Cadmium Total	µg/L	20	0.405	0.1	0.1	5
Chromium Total	µg/L	20	2.30	1.6	0.3	7.9
Cobalt Total	µg/L	20	0.845	0.3	0.2	3.3
Copper Total	µg/L	20	4.30	2.4	0.8	16.6
Iron Total	µg/L	20	1104	504	157	4770
Lead Total	µg/L	20	3.08	0.25	0.2	50
Manganese Total	µg/L	20	61.4	52.55	31	141
Mercury Total	µg/L	19	0.120	0.01	0.01	2.04
Molybdenum Total	µg/L	20	1.96	1.8	0.5	10
Nickel Total	µg/L	20	1.75	1	0.4	6
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	20	4.25	2.9	1.4	12.6
Zinc Total	µg/L	20	4.86	2.4	0.4	17.1

Table A2.4. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	26	NA	8.3	7.7	8.4
Nonfilterable Residues	mg/L	0	NR	NR	0	0
Specific Conductance	µsie/cm	26	383	436	151	481
Hardness	mg/L	26	173	195	61.6	225
Alkalinity	mg/L	26	158	182	61	199
Temperature	°C	24	9.35	9	0	20
Turbidity	NTU	26	4.87	1.25	0.2	45
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	26	3.30	3.55	1.3	5.8
Fluoride Dissolved	mg/L	26	0.187	0.2	0.11	0.24
Sulphate Dissolved	mg/L	26	37.5	42.7	10.3	51.3
Sodium Dissolved	mg/L	0	NR	NR	0	0
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	26	0.307	0.260	0.13	1.02
Nitrate and Nitrite Dissolved	mg/L	26	0.145	0.100	0.0133	0.58
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	0	NR	NR	0	0
Nitrate Dissolved	mg/L	0	NR	NR	0	0
Phosphorous Total	mg/L	26	0.115	0.0727	0.056	0.522
Metals and Metalloids						
Aluminium Total	µg/L	25	684.280	230	62	6190
Arsenic Total	µg/L	26	1.073	1	0.1	2.300
Barium Total	µg/L	25	30.296	28.400	22.400	76.200
Bromide Dissolved	µg/L	0	NR	NR	0	0
Cadmium Total	µg/L	25	0.172	0.1	0.1	1.1
Chromium Total	µg/L	25	1.81	1.1	0.2	12.9
Cobalt Total	µg/L	25	0.664	0.3	0.2	5.1
Copper Total	µg/L	25	3.148	1.8	0.8	16.1
Iron Total	µg/L	25	1126	382	179	10500
Lead Total	µg/L	25	0.684	0.2	0.2	4.8
Manganese Total	µg/L	25	60.4	48.7	33.8	254
Mercury Total	µg/L	26	0.012	0.01	0.01	0.02
Molybdneum Total	µg/L	25	1.79	1.9	0.9	2.2
Nickel Total	µg/L	25	1.77	1.1	0.3	12.2
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	25	4.46	3.1	1.9	23
Zinc Total	µg/L	25	4.33	2.2	0.6	29.4

Table A2.5. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	26	NA	8.2	7.7	8.4
Nonfilterable Residues	mg/L	0	NR	NR	0	0
Specific Conductance	µsie/cm	26	383	429	129	478
Hardness	mg/L	26	172	194	54	220
Alkalinity	mg/L	26	157	173	52	195
Temperature	°C	26	8.98	7	0.5	24
Turbidity	NTU	26	2.26	1.55	0.55	8.6
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	26	2.75	3	0.2	3.8
Fluoride Dissolved	mg/L	26	0.187	0.19	0.09	0.27
Sulphate Dissolved	mg/L	26	39.046	43.9	11.6	60.9
Sodium Dissolved	mg/L	0	NR	NR	0	0
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	26	0.225	0.230	0.0833	0.36
Nitrate and Nitrite Dissolved	mg/L	26	0.085	0.0682	0.006	0.252
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	0	NR	NR	0	0
Nitrate Dissolved	mg/L	0	NR	NR	0	0
Phosphorous Total	mg/L	26	0.078	0.065	0.044	0.2447
Metals and Metalloids						
Aluminium Total	µg/L	25	338.240	132	36	2310
Arsenic Total	µg/L	26	0.935	0.900	0.3	1.600
Barium Total	µg/L	25	26.016	25.500	19.900	45.900
Bromide Dissolved	µg/L	0	NR	NR	0	0
Cadmium Total	µg/L	25	0.12	0.1	0.1	0.4
Chromium Total	µg/L	25	1.53	0.5	0.2	16.5
Cobalt Total	µg/L	25	0.368	0.2	0.1	1.8
Copper Total	µg/L	25	1.50	1.2	0.7	4
Iron Total	µg/L	25	565.12	298	161	3080
Lead Total	µg/L	25	0.352	0.2	0.2	1.7
Manganese Total	µg/L	25	51.396	48.6	25.3	117
Mercury Total	µg/L	26	0.016	0.007	0.005	0.097
Molybdenum Total	µg/L	25	1.72	1.9	0.6	2.3
Nickel Total	µg/L	25	0.928	0.6	0.3	4.4
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	25	3.06	2.5	1.8	8.4
Zinc Total	µg/L	25	1.94	1.2	0.4	10.2

Table A2.6. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	26	NA	8.13	7.25	8.33
Nonfilterable Residues	mg/L	0	NR	NR	0	0
Specific Conductance	µsie/cm	26	358.885	418.5	115	486
Hardness	mg/L	26	171.665	190	49.5	235
Alkalinity	mg/L	26	153.346	176	47	206
Temperature	°C	21	6.40	6	0	16.5
Turbidity	NTU	26	7.79	2.4	0.5	82
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	26	2.80	3.15	1	4.6
Fluoride Dissolved	mg/L	26	0.177	0.19	0.08	0.23
Sulphate Dissolved	mg/L	26	34.5	43.2	5.9	57.2
Sodium Dissolved	mg/L	0	NR	NR	0	0
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	26	0.299	0.297	0.117	0.683
Nitrate and Nitrite Dissolved	mg/L	26	0.152	0.136	0.0213	0.502
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	0	NR	NR	0	0
Nitrate Dissolved	mg/L	0	NR	NR	0	0
Phosphorous Total	mg/L	26	0.127	0.078	0.0423	0.590
Metals and Metalloids						
Aluminium Total	µg/L	26	852.500	150.500	40	8090
Arsenic Total	µg/L	26	1.146	1.100	0.800	2.900
Barium Total	µg/L	26	29.800	24.900	20.000	97.2
Bromide Dissolved	µg/L	0	NR	NR	0	0
Cadmium Total	µg/L	26	0.212	0.1	0.1	1.6
Chromium Total	µg/L	26	1.68	0.55	0.2	14.1
Cobalt Total	µg/L	26	0.723	0.25	0.1	6.3
Copper Total	µg/L	26	2.78	1.45	0.9	21
Iron Total	µg/L	26	1321	372	151	13100
Lead Total	µg/L	26	0.696	0.2	0.2	6.8
Manganese Total	µg/L	26	68.9	39.1	24.8	381
Mercury Total	µg/L	25	0.007	0.005	0.005	0.017
Molybdneum Total	µg/L	26	1.56	1.8	0.7	2
Nickel Total	µg/L	26	1.92	0.8	0.3	14.5
Thallium Total	µg/L	1	0.5	0.5	0.5	0.5
Vanadium Total	µg/L	26	4.94	3.15	1.8	24.6
Zinc Total	µg/L	26	4.66	1.45	0.5	36.5

Table A2.7. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1994.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	23	NA	8.17	7.67	8.48
Nonfilterable Residues	mg/L	2	10	10	10	10
Specific Conductance	µsie/cm	23	387.65	428.00	118	557
Hardness	mg/L	23	184.30	199	54.3	270
Alkalinity	mg/L	23	163.04	180	49	228
Temperature	°C	23	9.79	8.5	0	22.5
Turbidity	NTU	23	3.19	2	0.8	14
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	23	3.46	3.95	0.67	4.74
Fluoride Dissolved	mg/L	6	0.185	0.19	0.16	0.2
Sulphate Dissolved	mg/L	23	38.0	42.7	6.9	67.8
Sodium Dissolved	mg/L	5	14.56	14.7	13.7	15.1
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	18	0.204	0.17	0.06	0.44
Nitrate and Nitrite Dissolved	mg/L	11	0.143	0.189	0.0267	0.291
Nitrogen Total	mg/L	5	0.478	0.469	0.395	0.580
Ammonia Dissolved	mg/L	5	0.023	0.0133	0.005	0.069
Nitrite Total	mg/L	17	0.007	0.005	0.005	0.042
Nitrate Dissolved	mg/L	17	0.050	0.028	0.002	0.267
Phosphorous Total	mg/L	23	0.088	0.068	0.046	0.230
Metals and Metalloids						
Aluminium Total	µg/L	23	360.826	128	46	1930
Arsenic Total	µg/L	22	0.900	0.900	0.7	1.200
Barium Total	µg/L	23	26.530	27.000	19.3	33.400
Bromide Dissolved	µg/L	17	46.471	50	20	50
Cadmium Total	µg/L	23	0.122	0.1	0.1	0.3
Chromium Total	µg/L	23	1.23	0.4	0.2	11.7
Cobalt Total	µg/L	23	0.361	0.2	0.1	1.6
Copper Total	µg/L	23	1.80	1.2	0.7	6
Iron Total	µg/L	23	603	304	133	2820
Lead Total	µg/L	23	0.361	0.2	0.2	1.6
Manganese Total	µg/L	23	46.5	42.6	27.4	81.5
Mercury Total	µg/L	9	0.020	0.005	0.005	0.106
Molybdneum Total	µg/L	23	1.72	1.9	0.6	2.5
Nickel Total	µg/L	23	1.12	0.7	0.2	4.3
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	23	3.17	2.5	1.7	8.5
Zinc Total	µg/L	23	2.03	1.2	0.2	9.7

Table A2.8. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	25	NA	8.24	7.86	8.42
Nonfilterable Residues	mg/L	0	NR	NR	0	0
Specific Conductance	µsie/cm	25	356	397	124	517
Hardness	mg/L	25	171	189	52.2	254
Alkalinity	mg/L	25	147	164	46.4	214
Temperature	°C	25	7.24	8	0	19
Turbidity	NTU	25	3.98	2.3	0.16	30
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	25	3.57	3.9	0.8	5.96
Fluoride Dissolved	mg/L	0	NR	NR	0	0
Sulphate Dissolved	mg/L	25	35.7	40.8	7.5	58.6
Sodium Dissolved	mg/L	0	NR	NR	0	0
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	25	0.293	0.24	0.09	1.4
Nitrate and Nitrite Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	25	0.005	0.005	0.005	0.005
Nitrate Dissolved	mg/L	25	0.094	0.046	0.003	0.29
Phosphorous Total	mg/L	25	0.103	0.083	0.053	0.3
Metals and Metalloids						
Aluminium Total	µg/L	25	512.320	197	47	3560
Arsenic Total	µg/L	17	0.853	0.800	0.700	1.100
Barium Total	µg/L	25	26.048	25.900	18.500	44.900
Bromide Dissolved	µg/L	25	48.400	50	10	50
Cadmium Total	µg/L	25	0.128	0.1	0.1	0.5
Chromium Total	µg/L	25	1.05	0.4	0.2	6.3
Cobalt Total	µg/L	25	0.452	0.2	0.1	2.5
Copper Total	µg/L	25	2.10	1.4	0.4	9.1
Iron Total	µg/L	25	812	398	163	5060
Lead Total	µg/L	25	0.484	0.2	0.2	2.9
Manganese Total	µg/L	25	59.6	50.3	31.1	158
Mercury Total	µg/L	0	NR	NR	0	0
Molybdneum Total	µg/L	25	1.56	1.7	0.5	2.1
Nickel Total	µg/L	25	1.328	0.7	0.3	6.8
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	25	3.49	2.6	1.7	12.2
Zinc Total	µg/L	25	2.76	1.6	0.4	14.4

Table A2.9. Water quality summary statistics for station BC08LE0004 on the Salmon River, 1996.

Variables	Units	Number	Mean	Median	Range	
					Min	Max
General Parameters						
pH	pH	25	NA	8.17	7.81	8.3
Nonfilterable Residues	mg/L	0	NR	NR	0	0
Specific Conductance	µsie/cm	25	342	374	147	456
Hardness	mg/L	25	164	179	65.7	230
Alkalinity	mg/L	25	146	161	69.5	196
Temperature	°C	25	8.90	9	0	20.5
Turbidity	NTU	25	8.6	2.7	0.9	64
Major Ions						
Calcium Dissolved	mg/L	0	NR	NR	0	0
Chloride Dissolved	mg/L	25	3.43	3.9	1.06	5.73
Fluoride Dissolved	mg/L	0	NR	NR	0	0
Sulphate Dissolved	mg/L	25	31.3	36.0	8.37	53
Sodium Dissolved	mg/L	0	NR	NR	0	0
Major Nutrients						
Potassium Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Dissolved	mg/L	17	0.367	0.32	0.18	1.22
Nitrate and Nitrite Dissolved	mg/L	0	NR	NR	0	0
Nitrogen Total	mg/L	0	NR	NR	0	0
Ammonia Dissolved	mg/L	0	NR	NR	0	0
Nitrite Total	mg/L	25	0.005	0.005	0.005	0.005
Nitrate Dissolved	mg/L	25	0.191	0.065	0.031	2.110
Phosphorous Total	mg/L	25	0.176	0.106	0.059	0.588
Metals and Metalloids						
Aluminium Total	µg/L	25	945.64	256.000	70	6260
Arsenic Total	µg/L	0	NR	NR	0	0
Barium Total	µg/L	25	31.288	28.600	21.600	85.000
Bromide Dissolved	µg/L	25	50	50	50	50
Cadmium Total	µg/L	25	0.212	0.1	0.1	1.2
Chromium Total	µg/L	25	2.05	0.9	0.2	13.2
Cobalt Total	µg/L	25	0.92	0.3	0.1	5.8
Copper Total	µg/L	25	3.86	2	0.7	23.5
Iron Total	µg/L	25	1604	479	183	11100
Lead Total	µg/L	25	0.848	0.2	0.2	6.3
Manganese Total	µg/L	25	66.6	46.3	31.2	274
Mercury Total	µg/L	0	NR	NR	0	0
Molybdneum Total	µg/L	25	1.61	1.6	0.8	2.3
Nickel Total	µg/L	25	2.68	1.5	0.5	13.9
Thallium Total	µg/L	0	NR	NR	0	0
Vanadium Total	µg/L	25	5.64	3.3	2.1	24.4
Zinc Total	µg/L	25	5.20	1.9	0.6	33.5

Appendix III

Monthly Water Quality Summary Statistics for Station BC08LE0004 on the Salmon River

Data compiled from Environment Canada ENVIRODAT
database (EC Info World Wide Web 1997)

Table A3.1. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1988.

Salmon River Water Quality Parameters		Apr-88	May-88					Jun-88				
			mean	n	median	min	max	mean	n	median	min	max
pH	pH units	6.79	NA	3	7.66	6.94	7.88	NA	2	8.3	8.2	8.4
Nonfilterable Residues	mg/L		NR	0	NR	0	0	76	1	76	76	76
Specific Conductance	µsie/cm	111	174.33	3	178	127	218	240	2	240	213	267
Hardness	mg/L	50.54	80.887	3	83.6	56.7	102.36	111.395	2	111.395	97.05	125.74
Alkalinity	mg/L	41.3	73.233	3	74.2	51.8	93.7	101.75	2	101.75	86.5	117
Temperature	°C	19	10.167	3	9	8	13.5	14.5	2	14.5	14	15
Turbidity	NTU	24	2.3667	3	2.5	1.5	3.1	8.2	2	8.2	1.4	15
Calcium Dissolved	mg/L	14.7	22.1	3	22.9	15.6	27.8	30.1	2	30.1	26.5	33.7
Chloride Dissolved	mg/L	1.1	1.1333	3	1.2	0.9	1.3	1.5	2	1.5	1.5	1.5
Fluoride Dissolved	mg/L	0.05	0.0593	3	0.056	0.05	0.072	0.092	2	0.092	0.079	0.105
Sulphate Dissolved	mg/L	11	17.033	3	20.1	10.9	20.1	22.9	2	22.9	20.3	25.5
Sodium Dissolved	mg/L	3.6	5.8333	3	6	4.3	7.2	7.8	2	7.8	6.7	8.9
Potassium Dissolved	mg/L	1.5	1.7	3	1.7	1.4	2	2.3	2	2.3	2.2	2.4
Nitrogen Dissolved	mg/L	0.44475	0.195	3	0.20425	0.137	0.24375	0.147375	2	0.14738	0.145	0.14975
Nitrate and Nitrite Dissolved	mg/L	0.121	0.04	3	0.044	0.027	0.049	0.053	2	0.053	0.03575	0.07025
Nitrogen Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.51825	0.1021	3	0.11075	0.06925	0.12625	0.151375	2	0.15138	0.08275	0.22
Aluminium Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.0014	0.0006	3	0.0006	0.0006	0.0007	0.0009	2	0.0009	0.0008	0.001
Barium Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	0.0001	3	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0142	0.0081	3	0.0084	0.0043	0.0116	0.04715	2	0.04715	0.0268	0.0675
Iron Total	mg/L	5.42	1.2113	3	1.23	0.714	1.69	1.5925	2	1.5925	0.575	2.61
Lead Total	mg/L	0.0024	0.0014	3	0.001	0.0007	0.0025	0.00195	2	0.00195	0.0011	0.0028
Manganese Total	mg/L	0.313	0.056	3	0.056	0.04	0.072	0.1205	2	0.1205	0.037	0.204
Mercury Total	ug/L		0.01	3	0.01	0.01	0.01	0.01	2	0.01	0.01	0.01
Molybdneum Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L		NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.0167	0.0042	3	0.0039	0.0026	0.006	0.00725	2	0.00725	0.0036	0.0109

Table A3.1. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1988.

Salmon River Water Quality Parameters		Jul-88					Aug-88	Sep-88	Oct-88				
		mean	n	median	min	max			mean	n	median	min	max
pH	pH units	NA	2	8.425	8.4	8.45	8.35	8.5	NA	2	8.47	8.39	8.55
Nonfilterable Residues	mg/L	NR	0	NR	0	0			11	2	11	10	12
Specific Conductance	µsie/cm	353.5	2	353.5	312	395	415	407	350.5	2	350.5	322	379
Hardness	mg/L	172.03	2	172.03	151.86	192.2	205.44	203.89	175.075	2	175.075	162.3	187.85
Alkalinity	mg/L	154	2	154	139	169	180	179	155	2	155	144	166
Temperature	°C	18	2	18	16	20	16	18	10	2	10	9	11
Turbidity	NTU	1.75	2	1.75	1.5	2	1.8	1.8	7.4	2	7.4	2.8	12
Calcium Dissolved	mg/L	46.55	2	46.55	40.7	52.4	54.9	55.6	46.45	2	46.45	42.9	50
Chloride Dissolved	mg/L	2.45	2	2.45	2.1	2.8	2.8	2.8	2.45	2	2.45	2.4	2.5
Fluoride Dissolved	mg/L	0.12	2	0.12	0.105	0.135	0.156	0.159	0.1385	2	0.1385	0.138	0.139
Sulphate Dissolved	mg/L	37.05	2	37.05	30.6	43.5	50	49.6	41.05	2	41.05	38.2	43.9
Sodium Dissolved	mg/L	11	2	11	10.4	11.6	12.8	12.5	11.75	2	11.75	11	12.5
Potassium Dissolved	mg/L	3.35	2	3.35	2.9	3.8	3.9	4.1	3.2	2	3.2	3	3.4
Nitrogen Dissolved	mg/L	0.13138	2	0.13138	0.125	0.1378	0.08325	0.06825	0.096	2	0.096	0.082	0.11
Nitrate and Nitrite Dissolved	mg/L	0.0245	2	0.0245	0.0233	0.0258	0.00675	0.002	0.0225	2	0.0225	0.0158	0.0293
Nitrogen Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Phosphorous Total	mg/L	0.0665	2	0.0665	0.0658	0.0673	0.08325	0.09025	0.086375	2	0.08638	0.082	0.0908
Aluminium Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Arsenic Total	mg/L	0.001	2	0.001	0.0009	0.0011	0.0009	0.001	0.00085	2	0.00085	0.0008	0.0009
Barium Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Copper Total	mg/L	0.05565	2	0.05565	0.0529	0.0584	0.098	0.165	0.01095	2	0.01095	0.0008	0.0211
Iron Total	mg/L	0.2475	2	0.2475	0.247	0.248	0.262	0.259	0.311	2	0.311	0.248	0.374
Lead Total	mg/L	0.00315	2	0.00315	0.0029	0.0034	0.0041	0.009	0.0013	2	0.0013	0.0007	0.0019
Manganese Total	mg/L	0.0485	2	0.0485	0.036	0.061	0.061	0.061	0.0565	2	0.0565	0.055	0.058
Mercury Total	ug/L	0.015	2	0.015	0.01	0.02	0.01	0.01	0.04	2	0.04	0.01	0.07
Molybdenum Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Zinc Total	mg/L	0.0032	2	0.0032	0.0024	0.004	0.0017	0.0137	0.04545	2	0.04545	0.0109	0.08

Table A3.1. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1988.

Salmon River Water Quality Parameters		Nov-88					Dec-88				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.3	8.29	8.41	NA	2	8.41	8.4	8.42
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	366.333	3	366	366	367	395.5	2	395.5	385	406
Hardness	mg/L	180.543	3	180.3	175.65	185.68	193.32	2	193.32	184.85	201.79
Alkalinity	mg/L	159.667	3	160	156	163	168	2	168	163	173
Temperature	°C	5.66667	3	3	2	12	1.75	2	1.75	0	3.5
Turbidity	NTU	0.96667	3	0.75	0.65	1.5	1.75	2	1.75	1.5	2
Calcium Dissolved	mg/L	47.7333	3	47.8	46.6	48.8	51.45	2	51.45	48.8	54.1
Chloride Dissolved	mg/L	2.6	3	2.6	2.4	2.8	3.1	2	3.1	3	3.2
Fluoride Dissolved	mg/L	0.146	3	0.144	0.139	0.155	0.169	2	0.169	0.155	0.183
Sulphate Dissolved	mg/L	42.8667	3	43.1	40.7	44.8	48.5	2	48.5	44.5	52.5
Sodium Dissolved	mg/L	12.1	3	12.1	11.4	12.8	11.95	2	11.95	11.6	12.3
Potassium Dissolved	mg/L	3	3	3	3	3	3.15	2	3.15	3.1	3.2
Nitrogen Dissolved	mg/L	0.13025	3	0.13475	0.11875	0.13725	0.287125	2	0.287125	0.22925	0.345
Nitrate and Nitrite Dissolved	mg/L	0.06058	3	0.05425	0.03325	0.09425	0.197125	2	0.197125	0.146	0.24825
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.06875	3	0.07725	0.04775	0.08125	0.08275	2	0.08275	0.05475	0.11075
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.00077	3	0.0008	0.0007	0.0008	0.00085	2	0.00085	0.0008	0.0009
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	3	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0012	3	0.0011	0.0008	0.0017	0.0034	2	0.0034	0.003	0.0038
Iron Total	mg/L	0.298	3	0.288	0.254	0.352	0.333	2	0.333	0.285	0.381
Lead Total	mg/L	0.00097	3	0.0009	0.0007	0.0013	0.0007	2	0.0007	0.0007	0.0007
Manganese Total	mg/L	0.05033	3	0.048	0.043	0.06	0.054	2	0.054	0.054	0.054
Mercury Total	ug/L	0.06333	3	0.06	0.06	0.07	0.04	2	0.04	0.04	0.04
Molybdenum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.00143	3	0.0014	0.0014	0.0015	0.0016	2	0.0016	0.0013	0.0019

Table A3.2. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Salmon River Water Quality Parameters		Jan-89					Feb-89				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.2	8.1	8.3	NA	2	8.24	8.08	8.4
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	420.5	2	420.5	416	425	462.5	2	462.5	434	491
Hardness	mg/L	206.335	2	206.335	202.28	210.39	217.305	2	217.305	202.25	232.36
Alkalinity	mg/L	181.5	2	181.5	181	182	193	2	193	180	206
Temperature	°C	0.5	2	0.5	0	1	0.75	2*	0.75	0.5	1
Turbidity	NTU	1.5	2	1.5	1	2	0.5	2	0.5	0.49	0.51
Calcium Dissolved	mg/L	54.6	2	54.6	53.8	55.4	56.85	2	56.85	52.8	60.9
Chloride Dissolved	mg/L	3.2	2	3.2	3	3.4	3.25	2	3.25	3.1	3.4
Fluoride Dissolved	mg/L	0.1785	2	0.1785	0.175	0.182	0.1875	2	0.1875	0.182	0.193
Sulphate Dissolved	mg/L	52.85	2	52.85	51.3	54.4	56.2	2	56.2	50.4	62
Sodium Dissolved	mg/L	13	2	13	12.8	13.2	14	2	14	13.4	14.6
Potassium Dissolved	mg/L	3.2	2	3.2	3.2	3.2	3.35	2	3.35	3.1	3.6
Nitrogen Dissolved	mg/L	0.27025	2	0.27025	0.24875	0.29175	0.305875	2	0.30588	0.2908	0.321
Nitrate and Nitrite Dissolved	mg/L	0.27025	2	0.27025	0.24875	0.29175	0.228125	2	0.22813	0.228	0.22825
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.050125	2	0.050125	0.04925	0.051	0.053875	2	0.05388	0.052	0.05575
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.0008	2	0.0008	0.0008	0.0008	0.001	2	0.001	0.0009	0.0011
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.00015	2	0.00015	0.0001	0.0002
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0026	2	0.0026	0.0024	0.0028	0.00125	2	0.00125	0.001	0.0015
Iron Total	mg/L	0.241	2	0.241	0.21	0.272	0.1735	2	0.1735	0.155	0.192
Lead Total	mg/L	0.0007	2	0.0007	0.0007	0.0007	0.0007	2	0.0007	0.0007	0.0007
Manganese Total	mg/L	0.059	2	0.059	0.045	0.073	0.0465	2	0.0465	0.037	0.056
Mercury Total	ug/L	0.045	2	0.045	0.04	0.05	0.045	2	0.045	0.04	0.05
Molybdneum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.00085	2	0.00085	0.0008	0.0009	0.0013	2	0.0013	0.0011	0.0015

Table A3.2. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Salmon River Water Quality Parameters		Mar-89					Apr-89				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.395	8.39	8.4	NA	2	8.43	8.35	8.51
Nonfilterable Residues	mg/L	22	1	22	22	22	49	1	49	49	49
Specific Conductance	µsie/cm	422.5	2	422.5	405	440	319	2	319	225	413
Hardness	mg/L	194.38	2	194.38	181.8	207	147.58	2	147.58	98.21	197
Alkalinity	mg/L	177	2	177	170	184	134.5	2	134.5	91	178
Temperature	°C	1.75	2	1.75	0.5	3	6.75	2	6.75	5.5	8
Turbidity	NTU	3.11	2	3.11	0.92	5.3	3.8	2	3.8	2	5.6
Calcium Dissolved	mg/L	51.05	2	51.05	47.9	54.2	39.1	2	39.1	26.7	51.5
Chloride Dissolved	mg/L	3.9	2	3.9	3.4	4.4	2.65	2	2.65	1.7	3.6
Fluoride Dissolved	mg/L	0.186	2	0.186	0.182	0.19	0.1555	2	0.1555	0.133	0.178
Sulphate Dissolved	mg/L	45.45	2	45.45	41.5	49.4	33.5	2	33.5	20.7	46.3
Sodium Dissolved	mg/L	13.3	2	13.3	13	13.6	10.25	2	10.25	7.4	13.1
Potassium Dissolved	mg/L	3.65	2	3.65	3.2	4.1	2.75	2	2.75	2.2	3.3
Nitrogen Dissolved	mg/L	0.318625	2	0.318625	0.313	0.324	0.14388	2	0.143875	0.14	0.148
Nitrate and Nitrite Dissolved	mg/L	0.2095	2	0.2095	0.189	0.23	0.06063	2	0.060625	0.043	0.078
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.106	2	0.106	0.089	0.123	0.127	2	0.127	0.069	0.185
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.00075	2	0.00075	7E-04	8E-04	0.00075	2	0.00075	7E-04	8E-04
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	1E-04	0.0001	2	0.0001	1E-04	1E-04
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0071	2	0.0071	0.001	0.013	0.07575	2	0.07575	0.032	0.12
Iron Total	mg/L	0.6395	2	0.6395	0.199	1.08	1.087	2	1.087	0.444	1.73
Lead Total	mg/L	0.0011	2	0.0011	0.001	0.001	0.00225	2	0.00225	0.002	0.003
Manganese Total	mg/L	0.0575	2	0.0575	0.04	0.075	0.0805	2	0.0805	0.065	0.096
Mercury Total	ug/L	0.055	2	0.055	0.05	0.06	0.075	2	0.075	0.07	0.08
Molybdneum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.00245	2	0.00245	0.001	0.004	0.00425	2	0.00425	0.003	0.006

Table A3.2. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Salmon River Water Quality Parameters		May-89					Jun-89				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	4	8.07	7.92	8.3	NA	2	8.4	8.38	8.42
Nonfilterable Residues	mg/L	140	4	127	79	227	NR	0	NR	0	0
Specific Conductance	µsie/cm	133.5	4	135.5	102	161	272	2	272	236	308
Hardness	mg/L	57.91	4	57.795	45.68	70.37	127.53	2	127.525	111.06	143.99
Alkalinity	mg/L	54.3	4	53.95	41.8	67.5	119.5	2	119.5	105	134
Temperature	°C	10.25	4	10	8.5	12.5	15.5	2	15.5	14	17
Turbidity	NTU	14	4	15	8	18	2	2	2	1.5	2.5
Calcium Dissolved	mg/L	15.8	4	15.75	13	18.7	34.25	2	34.25	29.8	38.7
Chloride Dissolved	mg/L	1.15	4	1.15	1.1	1.2	1.9	2	1.9	1.7	2.1
Fluoride Dissolved	mg/L	0.08475	4	0.0775	0.073	0.111	0.127	2	0.127	0.115	0.139
Sulphate Dissolved	mg/L	10.075	4	9.8	7.8	12.9	24.25	2	24.25	19.9	28.6
Sodium Dissolved	mg/L	4.825	4	4.8	3.5	6.2	9.2	2	9.2	8.3	10.1
Potassium Dissolved	mg/L	1.75	4	1.75	1.4	2.1	2.6	2	2.6	2.4	2.8
Nitrogen Dissolved	mg/L	0.23788	4	0.23575	0.2218	0.25825	0.13	2	0.13	0.1033	0.1568
Nitrate and Nitrite Dissolved	mg/L	0.06806	4	0.07125	0.0498	0.08	0.0329	2	0.032875	0.019	0.0468
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.25881	4	0.260875	0.2118	0.30175	0.0515	2	0.0515	0.015	0.088
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.00095	4	0.001	0.0008	0.001	0.0009	2	0.0009	0.0008	0.001
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0004	4	0.0002	0.0001	0.0011	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0297	4	0.01775	0.0118	0.0715	0.0326	2	0.0326	0.0132	0.052
Iron Total	mg/L	4.574	4	3.8135	2.279	8.39	0.6665	2	0.6665	0.45	0.883
Lead Total	mg/L	0.0028	4	0.00285	0.0007	0.0048	0.0018	2	0.00175	0.0007	0.0028
Manganese Total	mg/L	0.13825	4	0.13	0.091	0.202	0.0395	2	0.0395	0.034	0.045
Mercury Total	ug/L	0.06	4	0.055	0.02	0.11	0.02	2	0.02	0.02	0.02
Molybdneum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.03188	4	0.01825	0.0087	0.0823	0.0027	2	0.0027	0.0011	0.0043

Table A3.2. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Salmon River Water Quality Parameters		Jul-89					Aug-89				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.385	8.25	8.52	NA	2	8.38	8.33	8.43
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	332.5	2	332.5	325	340	355	2	355	333	377
Hardness	mg/L	160.17	2	160.17	154.45	165.89	175.765	2	175.765	168.6	182.9
Alkalinity	mg/L	149	2	149	144	154	160.5	2	160.5	154	167
Temperature	°C	18.5	2	18.5	18	19	19	2	19	18	20
Turbidity	NTU	0.925	2	0.925	0.85	1	1.35	2	1.35	1.2	1.5
Calcium Dissolved	mg/L	43.45	2	43.45	41.9	45	47.55	2	47.55	45.6	49.5
Chloride Dissolved	mg/L	2.45	2	2.45	2.3	2.6	2.75	2	2.75	2.6	2.9
Fluoride Dissolved	mg/L	0.165	2	0.165	0.159	0.171	0.177	2	0.177	0.172	0.182
Sulphate Dissolved	mg/L	32.2	2	32.2	30.7	33.7	37.5	2	37.5	36.1	38.9
Sodium Dissolved	mg/L	10.7	2	10.7	10.3	11.1	11.3	2	11.3	11.1	11.5
Potassium Dissolved	mg/L	2.95	2	2.95	2.9	3	3.25	2	3.25	3.1	3.4
Nitrogen Dissolved	mg/L	0.11	2	0.11	0.105	0.115	0.08838	2	0.088375	0.087	0.09
Nitrate and Nitrite Dissolved	mg/L	0.04175	2	0.04175	0.03575	0.04775	0.022	2	0.022	0.021	0.02275
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.066	2	0.066	0.06275	0.06925	0.06138	2	0.061375	0.061	0.062
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.0009	2	0.0009	0.0009	0.0009	0.00095	2	0.00095	9E-04	0.001
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.00015	2	0.00015	0.0001	0.0002	0.0001	2	0.0001	1E-04	0.0001
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0062	2	0.0062	0.0057	0.0067	0.05525	2	0.05525	0.005	0.1055
Iron Total	mg/L	0.27	2	0.27	0.255	0.285	0.234	2	0.234	0.234	0.234
Lead Total	mg/L	0.0007	2	0.0007	0.0007	0.0007	0.0007	2	0.0007	7E-04	0.0007
Manganese Total	mg/L	0.0375	2	0.0375	0.032	0.043	0.0405	2	0.0405	0.039	0.042
Mercury Total	ug/L	0.03	2	0.03	0.02	0.04	0.04	2	0.04	0.02	0.06
Molybdenum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.0013	2	0.0013	0.0007	0.0019	0.00135	2	0.00135	5E-04	0.0022

Table A3.2. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Salmon River Water Quality Parameters		Sep-89					Oct-89				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.185	8.03	8.34	NA	3	8.25	8.23	8.48
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	336.5	2	336.5	294	379	400	3	385	382	433
Hardness	mg/L	151.59	2	151.585	131.57	171.6	188.777	3	188.89	178.89	198.55
Alkalinity	mg/L	142	2	142	123	161	171.667	3	172	165	178
Temperature	°C	10.25	2	10.25	8	12.5	7.83333	3	9	4.5	10
Turbidity	NTU	0.72	2	0.72	0.44	1	0.43667	3	0.44	0.36	0.51
Calcium Dissolved	mg/L	41	2	41	36.2	45.8	49.7667	3	49.1	47.4	52.8
Chloride Dissolved	mg/L	2.4	2	2.4	2.1	2.7	3.06667	3	3.1	3	3.1
Fluoride Dissolved	mg/L	0.141	2	0.141	0.141	0.141	0.20333	3	0.212	0.179	0.219
Sulphate Dissolved	mg/L	31.25	2	31.25	25.7	36.8	39	3	39.9	36.5	40.6
Sodium Dissolved	mg/L	10.4	2	10.4	9.1	11.7	12.7667	3	12.9	12.2	13.2
Potassium Dissolved	mg/L	2.7	2	2.7	2.4	3	3.26667	3	3.3	3.2	3.3
Nitrogen Dissolved	mg/L	0.0684	2	0.068375	0.055	0.08175	0.06883	3	0.06825	0.06	0.07825
Nitrate and Nitrite Dissolved	mg/L	0.0291	2	0.029125	0.021	0.03725	0.01208	3	0.01225	0.01125	0.01275
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.056	2	0.056	0.05375	0.05825	0.062	3	0.05675	0.05025	0.079
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	0.0013	2	0.00125	0.0007	0.0018	0.00077	3	0.0007	0.0007	0.0009
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	3	0.0001	0.0001	0.0001
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	0.0319	2	0.0319	0.014	0.0498	0.04497	3	0.0242	0.0018	0.1089
Iron Total	mg/L	0.286	2	0.286	0.213	0.359	0.18967	3	0.185	0.179	0.205
Lead Total	mg/L	0.0012	2	0.0012	0.0008	0.0016	0.00117	3	0.0012	0.0007	0.0016
Manganese Total	mg/L	0.036	2	0.036	0.033	0.039	0.035	3	0.033	0.032	0.04
Mercury Total	ug/L	0.015	2	0.015	0.01	0.02	0.02333	3	0.02	0.01	0.04
Molybdneum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	0.0016	2	0.00155	0.0014	0.0017	0.00207	3	0.0016	0.0011	0.0035

Table A3.2. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1989.

Salmon River Water Quality Parameters		Nov-89					Dec-89				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.34	8.26	8.38	NA	2	8.375	8.34	8.41
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	258.333	3	292	105	378	385	2	385	379	391
Hardness	mg/L	149.5	2	149.5	134	165	175	2	175	169	181
Alkalinity	mg/L	147.667	3	152	122	169	167.5	2	167.5	166	169
Temperature	°C	3	3	3	1	5	1.35	2	1.35	0.2	2.5
Turbidity	NTU	0.66	3	0.66	0.51	0.81	0.765	2	0.765	0.76	0.77
Calcium Dissolved	mg/L	48.8	1	48.8	48.8	48.8	NR	0	NR	0	0
Chloride Dissolved	mg/L	2.56667	3	2.6	2.1	3	2.95	2	2.95	2.9	3
Fluoride Dissolved	mg/L	0.16867	3	0.168	0.124	0.214	0.189	2	0.189	0.167	0.211
Sulphate Dissolved	mg/L	35.1333	3	35.5	29.3	40.6	36.3	2	36.3	32.2	40.4
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.17711	3	0.191333	0.1083	0.2317	0.28417	2	0.28416663	0.241667	0.32667
Nitrate and Nitrite Dissolved	mg/L	0.07944	3	0.0956667	0.0303	0.1123	0.18722	2	0.18721667	0.133	0.24143
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.06056	3	0.055333	0.0527	0.0737	0.0575	2	0.0574998	0.055667	0.05933
Aluminium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Barium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chromium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cobalt Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Copper Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Iron Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Lead Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Manganese Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nickel Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Zinc Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0

Table A3.3. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1990.

Salmon River Water Quality Parameters		Jan-90					Feb-90				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.165	8.03	8.3	NA	2	8.25	8.2	8.3
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	392	2	392	391	393	399.5	2	399.5	388	411
Hardness	mg/L	178.5	2	178.5	178	179	189.5	2	189.5	182	197
Alkalinity	mg/L	166	2	166	165	167	174.5	2	174.5	167	182
Temperature	°C	2.75	2	2.75	2.5	3	3.5	2	3.5	3	4
Turbidity	NTU	1.25	2	1.25	1.1	1.4	0.625	2	0.625	0.5	0.75
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.45	2	3.45	3.4	3.5	3.3	2	3.3	3.3	3.3
Fluoride Dissolved	mg/L	0.245	2	0.245	0.22	0.27	0.205	2	0.205	0.2	0.21
Sulphate Dissolved	mg/L	41.95	2	41.95	39.5	44.4	39.9	2	39.9	35.8	44
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.2175	2	0.21749995	0.0783	0.3567	0.2945	2	0.29449995	0.272	0.317
Nitrate and Nitrite Dissolved	mg/L	0.19983	2	0.19983333	0.197	0.2027	0.21967	2	0.21966663	0.192	0.248
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.0915	2	0.091499965	0.0723	0.1107	0.05167	2	0.05166663	0.049	0.055
Aluminium Total	mg/L	NR	0	NR	0	0	0.075	1	0.075	0.075	0.075
Arsenic Total	mg/L	NR	0	NR	0	0	0.0008	1	0.0008	8E-04	8E-04
Barium Total	mg/L	NR	0	NR	0	0	0.0253	1	0.0253	0.025	0.025
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	NR	0	NR	0	0	0.0001	1	0.0001	1E-04	1E-04
Chromium Total	mg/L	NR	0	NR	0	0	0.0016	1	0.0016	0.002	0.002
Cobalt Total	mg/L	NR	0	NR	0	0	0.0003	1	0.0003	3E-04	3E-04
Copper Total	mg/L	NR	0	NR	0	0	0.0054	1	0.0054	0.005	0.005
Iron Total	mg/L	NR	0	NR	0	0	0.211	1	0.211	0.211	0.211
Lead Total	mg/L	NR	0	NR	0	0	0.0002	1	0.0002	2E-04	2E-04
Manganese Total	mg/L	NR	0	NR	0	0	0.031	1	0.031	0.031	0.031
Mercury Total	ug/L	NR	0	NR	0	0	0.02	1	0.02	0.02	0.02
Molybdneum Total	mg/L	NR	0	NR	0	0	0.0019	1	0.0019	0.002	0.002
Nickel Total	mg/L	NR	0	NR	0	0	0.0008	1	0.0008	8E-04	8E-04
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	NR	0	NR	0	0	0.0024	1	0.0024	0.002	0.002
Zinc Total	mg/L	NR	0	NR	0	0	0.0008	1	0.0008	8E-04	8E-04

Table A3.3. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1990.

Salmon River Water Quality Parameters		Mar-90					Apr-90				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.2	8.2	8.2	NA	2	8.05	7.9	8.2
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	394	2	394	379	409	206.5	2	206.5	176	237
Hardness	mg/L	186.5	2	186.5	181	192	95.55	2	95.55	80.1	111
Alkalinity	mg/L	169	2	169	163	175	88.1	2	88.1	74.2	102
Temperature	°C	4.25	2	4.25	2	6.5	8	2	8	6	10
Turbidity	NTU	0.55	2	0.55	0.3	0.8	5	2	5	4	6
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.9	2	3.9	3.4	4.4	1.7	2	1.7	1.5	1.9
Fluoride Dissolved	mg/L	0.205	2	0.205	0.2	0.21	0.135	2	0.135	0.12	0.15
Sulphate Dissolved	mg/L	43.25	2	43.25	40.4	46.1	18.85	2	18.85	14.7	23
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.36017	2	0.3601665	0.277	0.4433	0.25717	2	0.257166665	0.224	0.29
Nitrate and Nitrite Dissolved	mg/L	0.25133	2	0.2513333	0.1667	0.336	0.08183	2	0.08183315	0.073	0.09
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.09367	2	0.0936665	0.0773	0.11	0.14667	2	0.1466665	0.103	0.19
Aluminium Total	mg/L	0.3695	2	0.3695	0.244	0.495	1.098	2	1.098	0.586	1.61
Arsenic Total	mg/L	0.0007	2	0.0007	0.0007	0.0007	0.0007	2	0.0007	6E-04	8E-04
Barium Total	mg/L	0.02665	2	0.02665	0.0266	0.0267	0.02515	2	0.02515	0.021	0.029
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0002	2	0.0002	1E-04	3E-04
Chromium Total	mg/L	0.00155	2	0.00155	0.0015	0.0016	0.00275	2	0.00275	0.002	0.004
Cobalt Total	mg/L	0.00035	2	0.00035	0.0003	0.0004	0.0024	2	0.0024	0.002	0.003
Copper Total	mg/L	0.0147	2	0.0147	0.0128	0.0166	0.0035	2	0.0035	0.002	0.005
Iron Total	mg/L	0.628	2	0.628	0.544	0.712	1.714	2	1.714	0.908	2.52
Lead Total	mg/L	0.0006	2	0.0006	0.0006	0.0006	0.0008	2	0.0008	3E-04	0.001
Manganese Total	mg/L	0.0531	2	0.0531	0.052	0.0542	0.0833	2	0.0833	0.056	0.111
Mercury Total	ug/L	0.015	2	0.015	0.01	0.02	0.02	2	0.02	0.02	0.02
Molybdenum Total	mg/L	0.0017	2	0.0017	0.0016	0.0018	0.0013	2	0.0013	8E-04	0.002
Nickel Total	mg/L	0.00075	2	0.00075	0.0005	0.001	0.0024	2	0.0024	0.001	0.003
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0031	2	0.0031	0.003	0.0032	0.00535	2	0.00535	0.004	0.007
Zinc Total	mg/L	0.00275	2	0.00275	0.0024	0.0031	0.0125	2	0.0125	0.008	0.017

Table A3.3. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1990.

Salmon River Water Quality Parameters		May-90					Jun-90	Jul-90	Sep-90				
		mean	n	median	min	max			mean	n	median	min	max
pH	pH units	NA	3	7.9	7.9	8.1	8.2	8.3	NA	3	8.5	8.3	8.5
Nonfilterable Residues	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Specific Conductance	µsie/cm	173.333	3	168	152	200	241	270	453.67	3	454	447	460
Hardness	mg/L	75.3667	3	74.1	66.8	85.2	97.5	117	211.33	3	211	208	215
Alkalinity	mg/L	71.7333	3	72.1	62.8	80.3	101	126	190.33	3	189	189	193
Temperature	°C	11.8333	3	12.5	10	13	11	16	12.333	3	14	9	14
Turbidity	NTU	5	3	6	2	7	10	3	0.2667	3	0.3	0.1	0.4
Calcium Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Chloride Dissolved	mg/L	1.13333	3	1.1	1.1	1.2	1.6	2	3.7333	3	3.7	3.6	3.9
Fluoride Dissolved	mg/L	0.09667	3	0.11	0.06	0.12	0.14	0.14	0.2067	3	0.21	0.2	0.21
Sulphate Dissolved	mg/L	13.1	3	12.8	11.3	15.2	15	20	42.033	3	41.3	40.1	44.7
Sodium Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.31222	3	0.32333	0.23	0.383	0.37667	0.70667	0.1978	3	0.203333	0.117	0.273
Nitrate and Nitrite Dissolved	mg/L	0.09456	3	0.08867	0.081	0.114	0.08533	0.47967	0.0322	3	0.019	0.009	0.068
Nitrogen Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0			NR	0	NR	0	0
Phosphorous Total	mg/L	0.18667	3	0.13333	0.1	0.327	0.34333	0.17967	0.06	3	0.058	0.055	0.067
Aluminium Total	mg/L	1.759	3	1.35	0.817	3.11	2.7	1.11	0.0957	3	0.101	0.082	0.104
Arsenic Total	mg/L	0.0008	3	0.0007	7E-04	0.001	0.0017	0.0011	0.0011	3	0.0011	0.001	0.001
Barium Total	mg/L	0.02883	3	0.0251	0.019	0.042	0.0462	0.0278	0.0272	3	0.0282	0.025	0.028
Bromide Dissolved	mg/L	NR	0		0	0			NR	0	NR	0	0
Cadmium Total	mg/L	0.0002	3	0.0001	1E-04	4E-04	0.0004	0.0003	0.0017	3	0.0001	1E-04	0.005
Chromium Total	mg/L	0.00463	3	0.0029	0.003	0.008	0.0055	0.0029	0.0013	3	0.0007	5E-04	0.003
Cobalt Total	mg/L	0.00153	3	1.93	9E-04	0.002	0.0023	0.0014	0.0003	3	0.0003	3E-04	3E-04
Copper Total	mg/L	0.00403	3	0.0008	0.002	0.007	0.0076	0.0041	0.0034	3	0.0017	0.001	0.007
Iron Total	mg/L	2.68333	3	0.0681	1.35	4.77	4.46	1.81	0.2147	3	0.226	0.161	0.257
Lead Total	mg/L	0.0012	3	0.01	2E-04	0.003	0.0021	0.0009	0.0168	3	0.0002	2E-04	0.05
Manganese Total	mg/L	0.0854	3	0.0005	0.053	0.135	0.141	0.0661	0.0429	3	0.0401	0.04	0.049
Mercury Total	ug/L	0.01	3	0.0019	0.01	0.01	0.01	0.02	0.0133	3	0.01	0.01	0.02
Molybdneum Total	mg/L	0.0006	3	NR	5E-04	8E-04	0.0009	0.0014	0.0047	3	0.0021	0.002	0.01
Nickel Total	mg/L	0.00327	3	0.0058	0.002	0.006	0.006	0.0034	0.001	3	0.001	9E-04	0.001
Thallium Total	mg/L	NR	0	0.0126	0	0			NR	0	NR	0	0
Vanadium Total	mg/L	0.0077	3	NR	0.005	0.013	0.0119	0.0072	0.0026	3	0.0025	0.002	0.003
Zinc Total	mg/L	0.0108	3		0.007	0.013	0.0139	0.0061	0.0009	3	0.0009	9E-04	9E-04

Table A3.3. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1990.

Salmon River Water Quality Parameters		Oct-90					Nov-90				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.4	8.4	8.5	NA	2	8.35	8.2	8.5
Nonfilterable Residues	mg/L	10	1	10	10	10	NR	0	NR	0	0
Specific Conductance	µsie/cm	444	3	443	439	450	349	2	349	279	419
Hardness	mg/L	205.667	3	207	199	211	157	2	157	124	190
Alkalinity	mg/L	187.333	3	186	185	191	140.5	2	140.5	111	170
Temperature	°C	7.66667	3	8	6	9	5	2	5	4	6
Turbidity	NTU	0.23333	3	0.2	0.2	0.3	0.75	2	0.75	0.6	0.9
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.6	3	3.6	3.4	3.8	3.15	2	3.15	2.8	3.5
Fluoride Dissolved	mg/L	0.20333	3	0.2	0.2	0.21	0.165	2	0.165	0.14	0.19
Sulphate Dissolved	mg/L	46.2667	3	46.5	45.7	46.6	37.1	2	37.1	26.2	48
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.22667	3	0.22	0.186667	0.2733	0.293333	2	0.2933333	0.2933	0.293
Nitrate and Nitrite Dissolved	mg/L	0.08211	3	0.0403333	0.038333	0.1677	0.145	2	0.14499995	0.1133	0.177
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.05511	3	0.051	0.05	0.0643	0.0825	2	0.0825	0.077	0.088
Aluminium Total	mg/L	0.052	3	0.053	0.045	0.058	0.33	2	0.33	0.294	0.366
Arsenic Total	mg/L	0.00117	3	0.0012	0.0011	0.0012	0.00055	2	0.00055	0.0003	8E-04
Barium Total	mg/L	0.02627	3	0.026	0.0257	0.0271	0.02495	2	0.02495	0.0207	0.029
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	3	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	1E-04
Chromium Total	mg/L	0.00147	3	0.0011	0.0003	0.003	0.0015	2	0.0015	0.0011	0.002
Cobalt Total	mg/L	0.00023	3	0.0002	0.0002	0.0003	0.00035	2	0.00035	0.0003	4E-04
Copper Total	mg/L	0.00107	3	0.0012	0.0008	0.0012	0.00215	2	0.00215	0.0017	0.003
Iron Total	mg/L	0.16567	3	0.162	0.157	0.178	0.593	2	0.593	0.464	0.722
Lead Total	mg/L	0.0002	3	0.0002	0.0002	0.0002	0.00025	2	0.00025	0.0002	3E-04
Manganese Total	mg/L	0.04287	3	0.0442	0.0396	0.0448	0.05415	2	0.05415	0.0418	0.067
Mercury Total	ug/L	1.025	2	1.025	0.01	2.04	0.01	2	0.01	0.01	0.01
Molybdenum Total	mg/L	0.0021	3	0.0021	0.002	0.0022	0.0016	2	0.0016	0.0013	0.002
Nickel Total	mg/L	0.0008	3	0.0008	0.0004	0.0012	0.00095	2	0.00095	0.0009	0.001
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0022	3	0.0022	0.0022	0.0022	0.00265	2	0.00265	0.0024	0.003
Zinc Total	mg/L	0.00067	3	0.0007	0.0004	0.0009	0.0026	2	0.0026	0.0022	0.003

Table A3.3. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1990.

Salmon River Water Quality Parameters		Dec-90				
		mean	n	median	min	max
pH	pH units	NA	2	8.25	8.1	8.4
Nonfilterable Residues	mg/L	NR	0	NR	0	0
Specific Conductance	µsie/cm	428.5	2	428.5	426	431
Hardness	mg/L	200.5	2	200.5	199	202
Alkalinity	mg/L	175	2	175	171	179
Temperature	°C	2	2	2	2	2
Turbidity	NTU	0.3	2	0.3	0.2	0.4
Calcium Dissolved	mg/L	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.95	2	3.95	3.9	4
Fluoride Dissolved	mg/L	0.195	2	0.195	0.19	0.2
Sulphate Dissolved	mg/L	34.35	2	34.35	26	42.7
Sodium Dissolved	mg/L	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.34167	2	0.34166665	0.303	0.38
Nitrate and Nitrite Dissolved	mg/L	0.224	2	0.224	0.182	0.266
Nitrogen Total	mg/L	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0
Phosphorous Total	mg/L	0.063	2	0.063	0.056	0.0703
Aluminium Total	mg/L	0.101	2	0.101	0.07	0.132
Arsenic Total	mg/L	0.00085	2	0.00085	8E-04	0.0009
Barium Total	mg/L	0.02565	2	0.02565	0.025	0.0259
Bromide Dissolved	mg/L	NR	0	NR	0	0
Cadmium Total	mg/L	0.0002	2	0.0002	1E-04	0.0003
Chromium Total	mg/L	0.00105	2	0.00105	7E-04	0.0014
Cobalt Total	mg/L	0.00025	2	0.00025	2E-04	0.0003
Copper Total	mg/L	0.00135	2	0.00135	0.001	0.0015
Iron Total	mg/L	0.2695	2	0.2695	0.208	0.331
Lead Total	mg/L	0.0002	2	0.0002	2E-04	0.0002
Manganese Total	mg/L	0.04745	2	0.04745	0.04	0.0548
Mercury Total	ug/L	0.01	2	0.01	0.01	0.01
Molybdneum Total	mg/L	0.0018	2	0.0018	0.002	0.0019
Nickel Total	mg/L	0.0007	2	0.0007	7E-04	0.0007
Thallium Total	mg/L	NR	0	NR	0	0
Vanadium Total	mg/L	0.00195	2	0.00195	0.001	0.0025
Zinc Total	mg/L	0.00175	2	0.00175	0.001	0.0024

Table A3.4. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Salmon River Water Quality Parameters		Jan-91					Feb-91				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.3	8.3	8.3	NA	2	8.25	8.2	8.3
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	461.5	2	461.5	453	470	410	2	410	375	445
Hardness	mg/L	213.5	2	213.5	204	223	175	2	175	154	196
Alkalinity	mg/L	187.5	2	187.5	182	193	161.5	2	161.5	146	177
Temperature	°C	0	1	0	0	0	3	2	3	2	4
Turbidity	NTU	0.25	2	0.25	0.2	0.3	1.5	2	1.5	1	2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.95	2	3.95	3.8	4.1	5	2	5	4.2	5.8
Fluoride Dissolved	mg/L	0.195	2	0.195	0.19	0.2	0.185	2	0.185	0.16	0.21
Sulphate Dissolved	mg/L	46.35	2	46.35	41.4	51.3	45.4	2	45.4	40.8	50
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.4217	2	0.4216666	0.397	0.447	0.94167	2	0.94166665	0.863	1.02
Nitrate and Nitrite Dissolved	mg/L	0.3053	2	0.3053333	0.296	0.315	0.55583	2	0.5558333	0.532	0.58
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.0607	2	0.060667	0.058	0.064	0.20133	2	0.2013335	0.169	0.234
Aluminium Total	mg/L	0.068	2	0.068	0.062	0.074	0.6625	2	0.6625	0.617	0.708
Arsenic Total	mg/L	0.0005	2	0.0005	1E-04	9E-04	0.00115	2	0.00115	0.001	0.0013
Barium Total	mg/L	0.0273	2	0.0273	0.026	0.028	0.0301	2	0.0301	0.029	0.0313
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	1E-04	0.00015	2	0.00015	1E-04	0.0002
Chromium Total	mg/L	0.0009	2	0.0009	7E-04	0.001	0.00135	2	0.00135	0.001	0.0016
Cobalt Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.0006	2	0.0006	5E-04	0.0007
Copper Total	mg/L	0.0011	2	0.00105	9E-04	0.001	0.00285	2	0.00285	0.003	0.0031
Iron Total	mg/L	0.2085	2	0.2085	0.179	0.238	0.939	2	0.939	0.788	1.09
Lead Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.0002	2	0.0002	2E-04	0.0002
Manganese Total	mg/L	0.0478	2	0.0478	0.041	0.054	0.06695	2	0.06695	0.066	0.0676
Mercury Total	ug/L	0.01	2	0.01	0.01	0.01	0.01	2	0.01	0.01	0.01
Molybdenum Total	mg/L	0.002	2	0.00195	0.002	0.002	0.0019	2	0.0019	0.002	0.0019
Nickel Total	mg/L	0.0006	2	0.0006	5E-04	7E-04	0.0019	2	0.0019	0.002	0.0021
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0021	2	0.0021	0.002	0.002	0.0045	2	0.0045	0.004	0.0052
Zinc Total	mg/L	0.0009	2	0.00085	7E-04	0.001	0.0037	2	0.0037	0.003	0.0043

Table A3.4. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Salmon River Water Quality Parameters		Mar-91					Apr-91				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.25	8.2	8.3	NA	2	8.2	8.1	8.3
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	444	2	444	440	448	340	2	340	306	374
Hardness	mg/L	199	2	199	193	205	156.5	2	156.5	151	162
Alkalinity	mg/L	182.5	2	182.5	182	183	139.5	2	139.5	126	153
Temperature	°C	5	2	5	4	6	5.5	2	5.5	4	7
Turbidity	NTU	0.8	2	0.8	0.6	1	0.95	2	0.95	0.9	1
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.65	2	4.65	4.6	4.7	3	2	3	2.6	3.4
Fluoride Dissolved	mg/L	0.2	2	0.2	0.2	0.2	0.175	2	0.175	0.17	0.18
Sulphate Dissolved	mg/L	46.5	2	46.5	45	48	33.25	2	33.25	30.4	36.1
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.28833	2	0.2883333	0.28667	0.29	0.2667	2	0.26666665	0.2533	0.28
Nitrate and Nitrite Dissolved	mg/L	0.2055	2	0.2055	0.176	0.235	0.093	2	0.093	0.063	0.123
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.07183	2	0.0718335	0.05867	0.085	0.089	2	0.089	0.0713	0.10667
Aluminium Total	mg/L	0.257	2	0.257	0.195	0.319	0.506	2	0.506	0.335	0.677
Arsenic Total	mg/L	0.00095	2	0.00095	0.0009	0.001	0.001	2	0.00095	0.0009	0.001
Barium Total	mg/L	0.0278	2	0.0278	0.0264	0.0292	0.0246	2	0.02455	0.0236	0.0255
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0009	2	0.0009	0.0006	0.0012	0.0017	2	0.00165	0.0009	0.0024
Cobalt Total	mg/L	0.0004	2	0.0004	0.0004	0.0004	0.0005	2	0.0005	0.0004	0.0006
Copper Total	mg/L	0.00155	2	0.00155	0.0013	0.0018	0.0025	2	0.0025	0.0021	0.0029
Iron Total	mg/L	0.4715	2	0.4715	0.383	0.56	0.752	2	0.752	0.515	0.989
Lead Total	mg/L	0.00025	2	0.00025	0.0002	0.0003	0.0005	2	0.00045	0.0003	0.0006
Manganese Total	mg/L	0.05625	2	0.05625	0.0487	0.0638	0.0514	2	0.0514	0.0419	0.0609
Mercury Total	ug/L	0.01	2	0.01	0.01	0.01	0.01	2	0.01	0.01	0.01
Molybdneum Total	mg/L	0.0018	2	0.0018	0.0018	0.0018	0.0016	2	0.00155	0.0015	0.0016
Nickel Total	mg/L	0.0016	2	0.0016	0.0013	0.0019	0.0015	2	0.0015	0.0014	0.0016
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.003	2	0.003	0.0029	0.0031	0.0039	2	0.0039	0.0032	0.0046
Zinc Total	mg/L	0.00155	2	0.00155	0.0011	0.002	0.0033	2	0.00325	0.0022	0.0043

Table A3.4. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Salmon River Water Quality Parameters		May-91					Jun-91				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	7.9	7.7	7.9	NA	2	8.1	8.1	8.1
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	166.333	3	164	151	184	219.5	2	219.5	218	221
Hardness	mg/L	73.0333	3	73.8	61.6	83.7	96.5	2	96.5	96.1	96.9
Alkalinity	mg/L	68.3333	3	69	61	75	93	2	93	93	93
Temperature	°C	10	3	10	8	12	14.5	2	14.5	14	15
Turbidity	NTU	27.3333	3	24	13	45	3.15	2	3.15	2.3	4
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1.46667	3	1.5	1.3	1.6	1.5	2	1.5	1.5	1.5
Fluoride Dissolved	mg/L	0.11667	3	0.12	0.11	0.12	0.125	2	0.125	0.12	0.13
Sulphate Dissolved	mg/L	12.4	3	11.5	10.3	15.4	16.25	2	16.25	14.9	17.6
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.36889	3	0.393333	0.3033	0.41	0.27	2	0.2699998	0.2567	0.28333
Nitrate and Nitrite Dissolved	mg/L	0.09978	3	0.078	0.078	0.1433	0.10433	2	0.1043333	0.082	0.12667
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.32722	3	0.273	0.1867	0.522	0.1165	2	0.1165	0.093	0.14
Aluminium Total	mg/L	4.325	2	4.325	2.46	6.19	1.43	2	1.43	1.43	1.43
Arsenic Total	mg/L	0.00147	3	0.0012	0.0009	0.0023	0.0009	2	0.0009	0.0009	0.0009
Barium Total	mg/L	0.05865	2	0.05865	0.0411	0.0762	0.02975	2	0.02975	0.0297	0.0298
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.00075	2	0.00075	0.0004	0.0011	0.00025	2	0.00025	0.0002	0.0003
Chromium Total	mg/L	0.00885	2	0.00885	0.0048	0.0129	0.0029	2	0.0029	0.0027	0.0031
Cobalt Total	mg/L	0.0036	2	0.0036	0.0021	0.0051	0.0011	2	0.0011	0.0011	0.0011
Copper Total	mg/L	0.0115	2	0.0115	0.0069	0.0161	0.0033	2	0.0033	0.0031	0.0035
Iron Total	mg/L	7.395	2	7.395	4.29	10.5	2.01	2	2.01	1.95	2.07
Lead Total	mg/L	0.0034	2	0.0034	0.002	0.0048	0.00085	2	0.00085	0.0007	0.001
Manganese Total	mg/L	0.1785	2	0.1785	0.103	0.254	0.0596	2	0.0596	0.0593	0.0599
Mercury Total	ug/L	0.01	3	0.01	0.01	0.01	0.01	2	0.01	0.01	0.01
Molybdneum Total	mg/L	0.001	2	0.001	0.0009	0.0011	0.001	2	0.001	0.0009	0.0011
Nickel Total	mg/L	0.00875	2	0.00875	0.0053	0.0122	0.00315	2	0.00315	0.003	0.0033
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0169	2	0.0169	0.0108	0.023	0.00705	2	0.00705	0.0066	0.0075
Zinc Total	mg/L	0.0207	2	0.0207	0.012	0.0294	0.00775	2	0.00775	0.0077	0.0078

Table A3.4. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Salmon River Water Quality Parameters		Jul-91					Aug-91				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.2	8.1	8.3	NA	2	8.3	8.2	8.4
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	359	2	359	335	383	430.5	2	430.5	430	431
Hardness	mg/L	167	2	167	157	177	195.5	2	195.5	188	203
Alkalinity	mg/L	152	2	152	142	162	181	2	181	180	182
Temperature	°C	19.25	2	19.25	18.5	20	19	2	19	19	19
Turbidity	NTU	0.4	2	0.4	0.3	0.5	0.35	2	0.35	0.2	0.5
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	2.6	2	2.6	2.3	2.9	3.6	2	3.6	3.6	3.6
Fluoride Dissolved	mg/L	0.1935	2	0.1935	0.175	0.212	0.223	2	0.223	0.215	0.231
Sulphate Dissolved	mg/L	28.5	2	28.5	26	31	42	2	42	40	44
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.205	2	0.205	0.18	0.23	0.145	2	0.1449998	0.13333	0.156667
Nitrate and Nitrite Dissolved	mg/L	0.0468	2	0.0468333	0.042	0.0513	0.0255	2	0.02549998	0.01933	0.031667
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.0648	2	0.0648333	0.063	0.067	0.06683	2	0.0668333	0.06533	0.068333
Aluminium Total	mg/L	0.24	2	0.24	0.235	0.245	0.169	2	0.169	0.16	0.178
Arsenic Total	mg/L	0.0013	2	0.00125	0.001	0.0013	0.00115	2	0.00115	0.001	0.0013
Barium Total	mg/L	0.025	2	0.02495	0.022	0.0275	0.0294	2	0.0294	0.0284	0.0304
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.003	2	0.003	0.002	0.0038	0.0009	2	0.0009	0.0004	0.0014
Cobalt Total	mg/L	0.0003	2	0.0003	3E-04	0.0003	0.0003	2	0.0003	0.0003	0.0003
Copper Total	mg/L	0.0081	2	0.0081	0.007	0.0092	0.0033	2	0.0033	0.0014	0.0052
Iron Total	mg/L	0.369	2	0.369	0.356	0.382	0.2985	2	0.2985	0.298	0.299
Lead Total	mg/L	0.0019	2	0.0019	7E-04	0.0031	0.0004	2	0.0004	0.0002	0.0006
Manganese Total	mg/L	0.0343	2	0.03425	0.034	0.0347	0.04335	2	0.04335	0.0396	0.0471
Mercury Total	ug/L	0.015	2	0.015	0.01	0.02	0.01	2	0.01	0.01	0.01
Molybdenum Total	mg/L	0.0017	2	0.0017	0.002	0.0018	0.0022	2	0.0022	0.0022	0.0022
Nickel Total	mg/L	0.0012	2	0.00115	9E-04	0.0014	0.0008	2	0.0008	0.0008	0.0008
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0039	2	0.0039	0.004	0.0043	0.00305	2	0.00305	0.003	0.0031
Zinc Total	mg/L	0.0054	2	0.00535	0.004	0.0064	0.00175	2	0.00175	0.0012	0.0023

Table A3.4. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Salmon River Water Quality Parameters		Sep-91					Oct-91				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.3	8.3	8.3	NA	3	8.3	8.2	8.4
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	442	2	442	429	455	467.67	3	466	456	481
Hardness	mg/L	197.5	2	197.5	197	198	214.67	3	213	208	223
Alkalinity	mg/L	185.5	2	185.5	182	189	193.67	3	192	190	199
Temperature	°C	13.75	2	13.75	13.5	14	11.5	2	11.5	11	12
Turbidity	NTU	0.35	2	0.35	0.3	0.4	6.7333	3	3.7	1.5	15
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.45	2	3.45	3.4	3.5	3.4	3	3.5	3	3.7
Fluoride Dissolved	mg/L	0.219	2	0.219	0.219	0.219	0.2067	3	0.2	0.19	0.23
Sulphate Dissolved	mg/L	43.5	2	43.5	37	50	46.667	3	46	45	49
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.13833	2	0.1383333	0.13	0.1467	0.1533	3	0.1366666	0.13	0.19333
Nitrate and Nitrite Dissolved	mg/L	0.04483	2	0.0448333	0.0363	0.0533	0.0347	3	0.015	0.01333	0.07567
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.06817	2	0.0681665	0.0623	0.074	0.0862	3	0.069667	0.056	0.133
Aluminium Total	mg/L	0.1565	2	0.1565	0.097	0.216	0.319	3	0.132	0.077	0.748
Arsenic Total	mg/L	0.00115	2	0.00115	0.0011	0.0012	0.0011	3	0.0011	0.001	0.0012
Barium Total	mg/L	0.02765	2	0.02765	0.026	0.0293	0.0302	3	0.0284	0.0268	0.0354
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	3	0.0001	0.0001	0.0002
Chromium Total	mg/L	0.00045	2	0.00045	0.0004	0.0005	0.0007	3	0.0004	0.0002	0.0014
Cobalt Total	mg/L	0.00025	2	0.00025	0.0002	0.0003	0.0003	3	0.0002	0.0002	0.0006
Copper Total	mg/L	0.0011	2	0.0011	0.001	0.0012	0.0014	3	0.001	0.0009	0.0023
Iron Total	mg/L	0.3035	2	0.3035	0.221	0.386	0.504	3	0.275	0.197	1.04
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.0002	3	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0426	2	0.0426	0.0383	0.0469	0.0533	3	0.0491	0.0401	0.0706
Mercury Total	ug/L	0.01	2	0.01	0.01	0.01	0.0167	3	0.02	0.01	0.02
Molybdenum Total	mg/L	0.0021	2	0.0021	0.0021	0.0021	0.0022	3	0.0022	0.0021	0.0022
Nickel Total	mg/L	0.00055	2	0.00055	0.0004	0.0007	0.0006	3	0.0004	0.0003	0.0012
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00255	2	0.00255	0.0024	0.0027	0.0029	3	0.0023	0.0021	0.0042
Zinc Total	mg/L	0.0022	2	0.0022	0.0006	0.0038	0.0021	3	0.0012	0.0006	0.0046

Table A3.4. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1991.

Salmon River Water Quality Parameters		Nov-91					Dec-91				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.3	8.3	8.3	NA	2	8.35	8.3	8.4
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	460.5	2	460.5	457	464	467	2	467	467	467
Hardness	mg/L	199	2	199	190	208	219.5	2	219.5	214	225
Alkalinity	mg/L	192	2	192	191	193	191.5	2	191.5	189	194
Temperature	°C	3.75	2	3.75	3.5	4	2	2	2	1	3
Turbidity	NTU	2	2	2	1.9	2.1	2.5	2	2.5	2	3
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.95	2	3.95	3.8	4.1	3.85	2	3.85	3.8	3.9
Fluoride Dissolved	mg/L	0.215	2	0.215	0.19	0.24	0.215	2	0.215	0.2	0.23
Sulphate Dissolved	mg/L	48.85	2	48.85	48.6	49.1	48.2	2	48.2	45.6	50.8
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.278333	2	0.27833333	0.25	0.307	0.258333	2	0.25833315	0.2533	0.2633
Nitrate and Nitrite Dissolved	mg/L	0.138667	2	0.1386666	0.1187	0.159	0.1625	2	0.1625	0.136	0.189
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.071334	2	0.0713335	0.059	0.084	0.066833	2	0.066833	0.0593	0.0743
Aluminium Total	mg/L	0.152	2	0.152	0.074	0.23	0.109	2	0.109	0.063	0.155
Arsenic Total	mg/L	0.00105	2	0.00105	0.001	0.001	0.00105	2	0.00105	0.001	0.0011
Barium Total	mg/L	0.02725	2	0.02725	0.0259	0.029	0.026	2	0.026	0.0256	0.0264
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	1E-04	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0004	2	0.0004	0.0003	5E-04	0.00035	2	0.00035	0.0003	0.0004
Cobalt Total	mg/L	0.00035	2	0.00035	0.0003	4E-04	0.0002	2	0.0002	0.0002	0.0002
Copper Total	mg/L	0.0011	2	0.0011	0.001	0.001	0.0009	2	0.0009	0.0008	0.001
Iron Total	mg/L	0.2885	2	0.2885	0.206	0.371	0.2855	2	0.2855	0.199	0.372
Lead Total	mg/L	0.0002	2	0.0002	0.0002	2E-04	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.04765	2	0.04765	0.043	0.052	0.04625	2	0.04625	0.045	0.0475
Mercury Total	ug/L	0.01	2	0.01	0.01	0.01	0.015	2	0.015	0.01	0.02
Molybdneum Total	mg/L	0.00195	2	0.00195	0.0018	0.002	0.00195	2	0.00195	0.0019	0.002
Nickel Total	mg/L	0.0008	2	0.0008	0.0005	0.001	0.0004	2	0.0004	0.0003	0.0005
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0023	2	0.0023	0.0023	0.002	0.00215	2	0.00215	0.0019	0.0024
Zinc Total	mg/L	0.00165	2	0.00165	0.0015	0.002	0.00215	2	0.00215	0.0021	0.0022

Table A3.5. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Salmon River Water Quality Parameters		Jan-92					Feb-92				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.25	8.2	8.3	NA	2	8.2	8.2	8.2
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	475.5	2	475.5	473	478	467.5	2	467.5	467	468
Hardness	mg/L	216.5	2	216.5	213	220	204.5	2	204.5	204	205
Alkalinity	mg/L	193.5	2	193.5	192	195	188	2	188	187	189
Temperature	°C	1	2	1	1	1	1	2	1	1	1
Turbidity	NTU	1.8	2	1.8	1.6	2	1.8	2	1.8	1.6	2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.7	2	3.7	3.7	3.7	3.55	2	3.55	3.5	3.6
Fluoride Dissolved	mg/L	0.235	2	0.235	0.22	0.25	0.265	2	0.265	0.26	0.27
Sulphate Dissolved	mg/L	48.65	2	48.65	47.9	49.4	47.35	2	47.35	45.1	49.6
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.26167	2	0.261665	0.23333	0.29	0.3	2	0.3	0.24	0.36
Nitrate and Nitrite Dissolved	mg/L	0.14133	2	0.1413333	0.11833	0.1643	0.1515	2	0.1515	0.1233	0.1797
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.05417	2	0.054167	0.05067	0.0577	0.07083	2	0.0708335	0.067	0.0747
Aluminium Total	mg/L	0.0955	2	0.0955	0.086	0.105	0.1875	2	0.1875	0.127	0.248
Arsenic Total	mg/L	0.001	2	0.001	0.001	0.001	0.001	2	0.001	0.001	0.001
Barium Total	mg/L	0.02595	2	0.02595	0.0258	0.0261	0.02795	2	0.02795	0.0274	0.0285
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.00835	2	0.00835	0.0002	0.0165	0.0006	2	0.0006	0.0005	0.0007
Cobalt Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.00025	2	0.00025	0.0002	0.0003
Copper Total	mg/L	0.0011	2	0.0011	0.0008	0.0014	0.00125	2	0.00125	0.0012	0.0013
Iron Total	mg/L	0.2735	2	0.2735	0.249	0.298	0.4095	2	0.4095	0.334	0.485
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.05005	2	0.05005	0.0486	0.0515	0.0613	2	0.0613	0.0574	0.0652
Mercury Total	ug/L	0.01	2	0.01	0.01	0.01	0.018	2	0.018	0.01	0.026
Molybdenum Total	mg/L	0.002	2	0.002	0.002	0.002	0.00205	2	0.00205	0.002	0.0021
Nickel Total	mg/L	0.00035	2	0.00035	0.0003	0.0004	0.00065	2	0.00065	0.0004	0.0009
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00235	2	0.00235	0.0022	0.0025	0.00285	2	0.00285	0.0026	0.0031
Zinc Total	mg/L	0.00095	2	0.00095	0.0008	0.0011	0.0014	2	0.0014	0.0012	0.0016

Table A3.5. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Salmon River Water Quality Parameters		Mar-92					Apr-92				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.2	8.1	8.3	NA	3	8	7.7	8.1
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	380.5	2	380.5	327	434	203	3	234	129	246
Hardness	mg/L	162.5	2	162.5	144	181	88.3333	3	105	54	106
Alkalinity	mg/L	155	2	155	136	174	83.6667	3	98	52	101
Temperature	°C	3.25	2	3.25	1	5.5	7.16667	3	8.5	2	11
Turbidity	NTU	1.5	2	1.5	1.4	1.6	4.4	3	5	2.6	5.6
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1.15	2	1.15	0.2	2.1	1.66667	3	1.9	1.1	2
Fluoride Dissolved	mg/L	0.205	2	0.205	0.19	0.22	0.11667	3	0.13	0.09	0.13
Sulphate Dissolved	mg/L	38	2	38	32.4	43.6	19.1667	3	22.4	11.6	23.5
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.26167	2	0.2616666	0.217	0.3067	0.27556	3	0.28	0.223	0.323
Nitrate and Nitrite Dissolved	mg/L	0.09933	2	0.0993333	0.092	0.1063	0.06811	3	0.061	0.05	0.093
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.08883	2	0.0888333	0.063	0.1143	0.14478	3	0.114	0.076	0.245
Aluminium Total	mg/L	0.284	2	0.284	0.132	0.436	1.24867	3	0.888	0.548	2.31
Arsenic Total	mg/L	0.00085	2	0.00085	8E-04	0.0009	0.0008	3	0.0008	7E-04	9E-04
Barium Total	mg/L	0.02445	2	0.02445	0.024	0.0246	0.02927	3	0.022	0.02	0.046
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	0.0001	0.0002	3	0.0001	1E-04	4E-04
Chromium Total	mg/L	0.00065	2	0.00065	4E-04	0.0009	0.0025	3	0.0021	0.001	0.004
Cobalt Total	mg/L	0.00035	2	0.00035	2E-04	0.0005	0.00093	3	0.0006	4E-04	0.002
Copper Total	mg/L	0.0017	2	0.0017	0.001	0.0021	0.00283	3	0.0029	0.002	0.004
Iron Total	mg/L	0.5635	2	0.5635	0.306	0.821	1.696	3	1.19	0.818	3.08
Lead Total	mg/L	0.0002	2	0.0002	2E-04	0.0002	0.00103	3	0.0012	2E-04	0.002
Manganese Total	mg/L	0.0595	2	0.0595	0.048	0.071	0.07933	3	0.0685	0.053	0.117
Mercury Total	ug/L	0.021	2	0.021	0.018	0.024	0.041	3	0.019	0.007	0.097
Molybdneum Total	mg/L	0.00175	2	0.00175	0.002	0.0019	0.0009	3	0.001	6E-04	0.001
Nickel Total	mg/L	0.0008	2	0.0008	4E-04	0.0012	0.00247	3	0.0019	0.001	0.004
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00325	2	0.00325	0.003	0.0039	0.0056	3	0.0047	0.004	0.008
Zinc Total	mg/L	0.002	2	0.002	0.001	0.0026	0.0058	3	0.0039	0.003	0.01

Table A3.5. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Salmon River Water Quality Parameters		May-92					Jun-92				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	7.95	7.9	8	NA	2	8.25	8.2	8.3
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	210.5	2	210.5	195	226	375	2	375	354	396
Hardness	mg/L	87.3	2	87.3	79.1	95.5	181.5	2	181.5	169	194
Alkalinity	mg/L	86.5	2	86.5	81	92	160.5	2	160.5	152	169
Temperature	°C	12.5	2	12.5	12	13	20.25	2	20.25	18	22.5
Turbidity	NTU	7.6	2	7.6	6.6	8.6	1.75	2	1.75	1.5	2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1.25	2	1.25	1.1	1.4	3	2	3	2.8	3.2
Fluoride Dissolved	mg/L	0.115	2	0.115	0.11	0.12	0.17	2	0.17	0.15	0.19
Sulphate Dissolved	mg/L	16.35	2	16.35	15.1	17.6	32.5	2	32.5	30	35
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.263333	2	0.263333	0.22	0.307	0.211667	2	0.211667	0.1967	0.2267
Nitrate and Nitrite Dissolved	mg/L	0.088667	2	0.088666	0.072	0.106	0.0195	2	0.0195	0.017	0.022
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.138167	2	0.1381667	0.111	0.165	0.0805	2	0.0805	0.0693	0.0917
Aluminium Total	mg/L	1.0145	2	1.0145	0.999	1.03	0.155	1	0.155	0.155	0.155
Arsenic Total	mg/L	0.0005	2	0.0005	3E-04	7E-04	0.0012	2	0.0012	0.0008	0.0016
Barium Total	mg/L	0.02385	2	0.02385	0.022	0.026	0.0226	1	0.0226	0.0226	0.0226
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.0001	1	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.00205	2	0.00205	0.002	0.002	0.0004	1	0.0004	0.0004	0.0004
Cobalt Total	mg/L	0.00085	2	0.00085	7E-04	0.001	0.0002	1	0.0002	0.0002	0.0002
Copper Total	mg/L	0.0032	2	0.0032	0.003	0.004	0.0015	1	0.0015	0.0015	0.0015
Iron Total	mg/L	1.565	2	1.565	1.56	1.57	0.297	1	0.297	0.297	0.297
Lead Total	mg/L	0.00085	2	0.00085	7E-04	0.001	0.0002	1	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0617	2	0.0617	0.054	0.069	0.0319	1	0.0319	0.0319	0.0319
Mercury Total	ug/L	0.0515	2	0.0515	0.023	0.08	0.005	2	0.005	0.005	0.005
Molybdenum Total	mg/L	0.0009	2	0.0009	8E-04	0.001	0.0017	1	0.0017	0.0017	0.0017
Nickel Total	mg/L	0.0023	2	0.0023	0.002	0.002	0.0007	1	0.0007	0.0007	0.0007
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00535	2	0.00535	0.005	0.006	0.0035	1	0.0035	0.0035	0.0035
Zinc Total	mg/L	0.0048	2	0.0048	0.004	0.006	0.0008	1	0.0008	0.0008	0.0008

Table A3.5. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Salmon River Water Quality Parameters		Jul-92					Aug-92				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.3	8.2	8.4	NA	2	8.35	8.3	8.4
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	357	2	357	323	391	424	2	424	410	438
Hardness	mg/L	156.5	2	156.5	138	175	200.5	2	200.5	191	210
Alkalinity	mg/L	149.5	2	149.5	134	165	178.5	2	178.5	173	184
Temperature	°C	18.5	2	18.5	18	19	22	2	22	20	24
Turbidity	NTU	3.105	2	3.105	0.71	5.5	0.6	2	0.6	0.6	0.6
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	2.75	2	2.75	2.3	3.2	3.5	2	3.5	3.2	3.8
Fluoride Dissolved	mg/L	0.175	2	0.175	0.16	0.19	0.215	2	0.215	0.2	0.23
Sulphate Dissolved	mg/L	41.25	2	41.25	29	53.5	45.5	2	45.5	44.2	46.8
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.1983	2	0.1983333	0.16	0.237	0.141667	2	0.141667	0.1367	0.147
Nitrate and Nitrite Dissolved	mg/L	0.042	2	0.042	0.0193	0.065	0.017667	2	0.017667	0.006	0.029
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.068	2	0.068	0.061	0.075	0.058834	2	0.058834	0.0547	0.063
Aluminium Total	mg/L	0.1655	2	0.1655	0.069	0.262	0.058	2	0.058	0.036	0.08
Arsenic Total	mg/L	0.0011	2	0.0011	0.0008	0.001	0.0013	2	0.0013	0.0012	0.001
Barium Total	mg/L	0.0231	2	0.0231	0.0217	0.025	0.02755	2	0.02755	0.0267	0.028
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	1E-04	0.0001	2	0.0001	0.0001	1E-04
Chromium Total	mg/L	0.0005	2	0.0005	0.0002	8E-04	0.0004	2	0.0004	0.0002	6E-04
Cobalt Total	mg/L	0.0002	2	0.0002	0.0001	3E-04	0.0002	2	0.0002	0.0001	3E-04
Copper Total	mg/L	0.0013	2	0.0013	0.0011	0.002	0.00105	2	0.00105	0.001	0.001
Iron Total	mg/L	0.2795	2	0.2795	0.17	0.389	0.181	2	0.181	0.172	0.19
Lead Total	mg/L	0.0002	2	0.0002	0.0002	2E-04	0.0002	2	0.0002	0.0002	2E-04
Manganese Total	mg/L	0.0334	2	0.0334	0.0301	0.037	0.05	2	0.05	0.0373	0.063
Mercury Total	ug/L	0.0055	2	0.0055	0.005	0.006	0.0055	2	0.0055	0.005	0.006
Molybdenum Total	mg/L	0.0015	2	0.0015	0.0013	0.002	0.00225	2	0.00225	0.0022	0.002
Nickel Total	mg/L	0.0006	2	0.0006	0.0004	8E-04	0.00055	2	0.00055	0.0005	6E-04
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0028	2	0.0028	0.0025	0.003	0.0022	2	0.0022	0.0021	0.002
Zinc Total	mg/L	0.0012	2	0.0012	0.0007	0.002	0.00055	2	0.00055	0.0005	6E-04

Table A3.5. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Salmon River Water Quality Parameters		Sep-92					Oct-92				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.27	8.2	8.36	NA	2	8.105	8.09	8.12
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	445.333	3	451	427	458	438	2	438	434	442
Hardness	mg/L	199	3	197	194	206	202	2	202	199	205
Alkalinity	mg/L	180.667	3	184	171	187	180	2	180	178	182
Temperature	°C	12.6667	3	11	8	19	5.5	2	5.5	5	6
Turbidity	NTU	0.77333	3	0.67	0.55	1.1	0.92	2	0.92	0.84	1
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	2.76667	3	2.8	2.7	2.8	3	2	3	2.8	3.2
Fluoride Dissolved	mg/L	0.2	3	0.2	0.2	0.2	0.195	2	0.195	0.19	0.2
Sulphate Dissolved	mg/L	42.8	3	42	42	44.4	41.8	2	41.8	38.5	45.1
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.12667	3	0.1366667	0.107	0.1367	0.09667	2	0.0966665	0.083	0.11
Nitrate and Nitrite Dissolved	mg/L	0.02322	3	0.0156666	0.015	0.0393	0.0095	2	0.0095	0.007	0.012
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.05722	3	0.050333	0.05	0.0717	0.04517	2	0.0451665	0.044	0.046
Aluminium Total	mg/L	0.10367	3	0.066	0.05	0.195	0.058	2	0.058	0.056	0.06
Arsenic Total	mg/L	0.001	3	0.001	9E-04	0.0011	0.0009	2	0.0009	8E-04	0.001
Barium Total	mg/L	0.0275	3	0.0279	0.026	0.0284	0.0244	2	0.0244	0.024	0.025
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	3	0.0001	1E-04	0.0001	0.0001	2	0.0001	1E-04	1E-04
Chromium Total	mg/L	0.00117	3	0.0006	2E-04	0.0027	0.0003	2	0.0003	2E-04	4E-04
Cobalt Total	mg/L	0.00023	3	0.0002	1E-04	0.0004	0.0002	2	0.0002	2E-04	2E-04
Copper Total	mg/L	0.0009	3	0.0008	7E-04	0.0012	0.001	2	0.001	9E-04	0.001
Iron Total	mg/L	0.24667	3	0.184	0.181	0.375	0.1645	2	0.1645	0.161	0.168
Lead Total	mg/L	0.0002	3	0.0002	2E-04	0.0002	0.0002	2	0.0002	2E-04	2E-04
Manganese Total	mg/L	0.04553	3	0.0459	0.039	0.052	0.0354	2	0.0354	0.035	0.036
Mercury Total	ug/L	0.00633	3	0.005	0.005	0.009	0.0055	2	0.0055	0.005	0.006
Molybdenum Total	mg/L	0.00217	3	0.0022	0.002	0.0023	0.002	2	0.002	0.002	0.002
Nickel Total	mg/L	0.0005	3	0.0003	3E-04	0.0009	0.0005	2	0.0005	5E-04	5E-04
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00217	3	0.0019	0.002	0.0027	0.00185	2	0.00185	0.002	0.002
Zinc Total	mg/L	0.00087	3	0.0008	4E-04	0.0014	0.0007	2	0.0007	6E-04	8E-04

Table A3.5. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1992.

Salmon River Water Quality Parameters		Nov-92					Dec-92				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.235	8.22	8.25	NA	2	8.07	8	8.14
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	423.5	2	423.5	417	430	452.5	2	452.5	449	456
Hardness	mg/L	193.5	2	193.5	191	196	206.5	2	206.5	205	208
Alkalinity	mg/L	171.5	2	171.5	171	172	182.5	2	182.5	180	185
Temperature	°C	2.25	2	2.25	1	3.5	0.75	2	0.75	0.5	1
Turbidity	NTU	1.65	2	1.65	1.4	1.9	0.935	2	0.935	0.67	1.2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.55	2	3.55	3.5	3.6	3.65	2	3.65	3.5	3.8
Fluoride Dissolved	mg/L	0.187	2	0.187	0.185	0.189	0.195	2	0.195	0.19	0.2
Sulphate Dissolved	mg/L	47.95	2	47.95	47	48.9	55.3	2	55.3	49.7	60.9
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.265	2	0.265	0.25	0.28	0.31833	2	0.318333	0.31	0.3267
Nitrate and Nitrite Dissolved	mg/L	0.14767	2	0.147667	0.123	0.1723	0.245	2	0.245	0.238	0.2517
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.059	2	0.059	0.05167	0.0663	0.049	2	0.049	0.046	0.052
Aluminium Total	mg/L	0.144	2	0.144	0.117	0.171	0.115	2	0.115	0.097	0.133
Arsenic Total	mg/L	0.0008	2	0.0008	0.0008	0.0008	0.0008	2	0.0008	8E-04	0.0008
Barium Total	mg/L	0.0246	2	0.0246	0.0242	0.025	0.0269	2	0.0269	0.027	0.027
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	1E-04	0.0001
Chromium Total	mg/L	0.0003	2	0.0003	0.0003	0.0003	0.0003	2	0.0003	3E-04	0.0003
Cobalt Total	mg/L	0.00025	2	0.00025	0.0002	0.0003	0.00025	2	0.00025	2E-04	0.0003
Copper Total	mg/L	0.0009	2	0.0009	0.0009	0.0009	0.00095	2	0.00095	9E-04	0.001
Iron Total	mg/L	0.333	2	0.333	0.252	0.414	0.232	2	0.232	0.176	0.288
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.0002	2	0.0002	2E-04	0.0002
Manganese Total	mg/L	0.057	2	0.057	0.0427	0.0713	0.03085	2	0.03085	0.025	0.0364
Mercury Total	ug/L	0.006	2	0.006	0.005	0.007	0.0065	2	0.0065	0.005	0.008
Molybdneum Total	mg/L	0.0018	2	0.0018	0.0017	0.0019	0.0018	2	0.0018	0.002	0.0018
Nickel Total	mg/L	0.0006	2	0.0006	0.0006	0.0006	0.00045	2	0.00045	4E-04	0.0005
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0022	2	0.0022	0.0021	0.0023	0.002	2	0.002	0.002	0.0021
Zinc Total	mg/L	0.00105	2	0.00105	0.0008	0.0013	0.00125	2	0.00125	7E-04	0.0018

Table A3.6. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Salmon River Water Quality Parameters		Jan-93					Feb-93				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.18	8.17	8.19	NA	2	8.135	7.97	8.3
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	359.5	2	359.5	272	447	452	2	452	437	467
Hardness	mg/L	195	2	195	186	204	206	2	206	188	224
Alkalinity	mg/L	178.5	2	178.5	177	180	187	2	187	177	197
Temperature	°C	1	2	1	1	1	0.5	2	0.5	0	1
Turbidity	NTU	0.58	2	0.58	0.5	0.66	2.15	2	2.15	1	3.3
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.4	2	3.4	3.3	3.5	3.9	2	3.9	3.2	4.6
Fluoride Dissolved	mg/L	0.195	2	0.195	0.19	0.2	0.2	2	0.2	0.19	0.21
Sulphate Dissolved	mg/L	50.6	2	50.6	44	57.2	47.35	2	47.35	45.7	49
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.32167	2	0.3216667	0.3	0.343	0.375	2	0.3749998	0.32667	0.4233
Nitrate and Nitrite Dissolved	mg/L	0.24317	2	0.2431667	0.24	0.246	0.27233	2	0.2723333	0.21567	0.329
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.05	2	0.0500002	0.043	0.057	0.078	2	0.078	0.078	0.078
Aluminium Total	mg/L	0.0645	2	0.0645	0.064	0.065	0.144	2	0.144	0.141	0.147
Arsenic Total	mg/L	0.0008	2	0.0008	8E-04	8E-04	0.00095	2	0.00095	0.0008	0.0011
Barium Total	mg/L	0.02595	2	0.02595	0.025	0.027	0.02785	2	0.02785	0.0243	0.0314
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	1E-04	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.00025	2	0.00025	2E-04	3E-04	0.00065	2	0.00065	0.0004	0.0009
Cobalt Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.0003	2	0.0003	0.0003	0.0003
Copper Total	mg/L	0.0009	2	0.0009	9E-04	9E-04	0.00125	2	0.00125	0.0012	0.0013
Iron Total	mg/L	0.1545	2	0.1545	0.151	0.158	0.404	2	0.404	0.268	0.54
Lead Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0337	2	0.0337	0.031	0.036	0.07785	2	0.07785	0.0337	0.122
Mercury Total	ug/L	0.006	2	0.006	0.005	0.007	0.005	2	0.005	0.005	0.005
Molybdenum Total	mg/L	0.0018	2	0.0018	0.002	0.002	0.0019	2	0.0019	0.0019	0.0019
Nickel Total	mg/L	0.0004	2	0.0004	3E-04	5E-04	0.00075	2	0.00075	0.0007	0.0008
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00185	2	0.00185	0.002	0.002	0.00255	2	0.00255	0.0024	0.0027
Zinc Total	mg/L	0.0007	2	0.0007	5E-04	9E-04	0.00915	2	0.00915	0.0009	0.0174

Table A3.6. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Salmon River Water Quality Parameters		Mar-93					Apr-93				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.07	8.05	8.22	NA	2	7.91	7.81	8.01
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	437.333	3	427	420	465	232	2	232	173	291
Hardness	mg/L	206.333	3	205	199	215	110.35	2	110.35	83.7	137
Alkalinity	mg/L	177.333	3	175	170	187	99.5	2	99.5	77	122
Temperature	°C	4	2	4	2	6	7.5	2	7.5	7	8
Turbidity	NTU	2.23	3	2.5	0.79	3.4	17.4	2	17.4	6.8	28
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.96667	3	3.9	3.4	4.6	2.1	2	2.1	1.5	2.7
Fluoride Dissolved	mg/L	0.2	3	0.2	0.19	0.21	0.16	2	0.16	0.14	0.18
Sulphate Dissolved	mg/L	47.6667	3	47.6	45	50.4	19.85	2	19.85	15.7	24
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.44222	3	0.34	0.3033	0.6833	0.45333	2	0.453333	0.4267	0.48
Nitrate and Nitrite Dissolved	mg/L	0.291	3	0.2406666	0.1303	0.502	0.1905	2	0.1905	0.1657	0.21533
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.10111	3	0.093333	0.0423	0.1677	0.2025	2	0.2025	0.1183	0.28667
Aluminium Total	mg/L	0.307	3	0.284	0.083	0.554	1.9605	2	1.9605	0.811	3.11
Arsenic Total	mg/L	0.001	3	0.0011	0.0008	0.0011	0.001	2	0.001	0.0009	0.0011
Barium Total	mg/L	0.02713	3	0.028	0.0245	0.0289	0.03475	2	0.03475	0.0255	0.044
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	3	0.0001	0.0001	0.0001	0.0003	2	0.0003	0.0001	0.0005
Chromium Total	mg/L	0.0005	3	0.0006	0.0002	0.0007	0.0034	2	0.0034	0.0014	0.0054
Cobalt Total	mg/L	0.0003	3	0.0004	0.0001	0.0004	0.0013	2	0.0013	0.0005	0.0021
Copper Total	mg/L	0.00173	3	0.0017	0.0016	0.0019	0.0042	2	0.0042	0.0026	0.0058
Iron Total	mg/L	0.45367	3	0.508	0.198	0.655	2.565	2	2.565	1.01	4.12
Lead Total	mg/L	0.0002	3	0.0002	0.0002	0.0002	0.0012	2	0.0012	0.0004	0.002
Manganese Total	mg/L	0.055	3	0.0621	0.0366	0.0663	0.11145	2	0.11145	0.0689	0.154
Mercury Total	ug/L	0.00567	3	0.005	0.005	0.007	0.005	2	0.005	0.005	0.005
Molybdenum Total	mg/L	0.0018	3	0.0018	0.0017	0.0019	0.00105	2	0.00105	0.0009	0.0012
Nickel Total	mg/L	0.00083	3	0.0008	0.0004	0.0013	0.00385	2	0.00385	0.0019	0.0058
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00307	3	0.0032	0.0022	0.0038	0.00845	2	0.00845	0.0055	0.0114
Zinc Total	mg/L	0.0017	3	0.0016	0.0009	0.0026	0.0077	2	0.0077	0.0033	0.0121

Table A3.6. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Salmon River Water Quality Parameters		May-93					Jun-93				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	7.7	7.56	7.84	NA	2	8.055	7.99	8.12
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	147	2	147	115	179	269.5	2	269.5	259	280
Hardness	mg/L	63.3	2	63.3	49.5	77.1	116.5	2	116.5	112	121
Alkalinity	mg/L	62	2	62	47	77	115.5	2	115.5	111	120
Temperature	°C	15	2	15	13.5	16.5	15.5	2	15.5	15	16
Turbidity	NTU	53	2	53	24	82	5.25	2	5.25	4	6.5
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1	2	1	1	1	1.7	2	1.7	1.6	1.8
Fluoride Dissolved	mg/L	0.095	2	0.095	0.08	0.11	0.135	2	0.135	0.13	0.14
Sulphate Dissolved	mg/L	8.7	2	8.7	5.9	11.5	20	2	20	19	21
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.325	2	0.325	0.2867	0.3633	0.27	2	0.27	0.2467	0.2933
Nitrate and Nitrite Dissolved	mg/L	0.065833	2	0.065833	0.0603	0.0713	0.10883	2	0.108833	0.076	0.1417
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.431833	2	0.431833	0.2733	0.5903	0.13433	2	0.134334	0.1257	0.143
Aluminium Total	mg/L	5.435	2	5.435	2.78	8.09	0.8315	2	0.8315	0.653	1.01
Arsenic Total	mg/L	0.00225	2	0.00225	0.0016	0.0029	0.0011	2	0.0011	0.0011	0.0011
Barium Total	mg/L	0.0716	2	0.0716	0.046	0.0972	0.0246	2	0.0246	0.0226	0.0266
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0011	2	0.0011	0.0006	0.0016	0.00015	2	0.00015	0.0001	0.0002
Chromium Total	mg/L	0.00955	2	0.00955	0.005	0.0141	0.00155	2	0.00155	0.0013	0.0018
Cobalt Total	mg/L	0.00425	2	0.00425	0.0022	0.0063	0.00065	2	0.00065	0.0005	0.0008
Copper Total	mg/L	0.014	2	0.014	0.007	0.021	0.0027	2	0.0027	0.0024	0.003
Iron Total	mg/L	8.685	2	8.685	4.27	13.1	1.141	2	1.141	0.912	1.37
Lead Total	mg/L	0.0046	2	0.0046	0.0024	0.0068	0.00045	2	0.00045	0.0003	0.0006
Manganese Total	mg/L	0.2495	2	0.2495	0.118	0.381	0.0495	2	0.0495	0.0415	0.0575
Mercury Total	ug/L	0.0055	2	0.0055	0.005	0.006	0.005	2	0.005	0.005	0.005
Molybdneum Total	mg/L	0.00085	2	0.00085	0.0008	0.0009	0.00115	2	0.00115	0.0011	0.0012
Nickel Total	mg/L	0.01005	2	0.01005	0.0056	0.0145	0.00195	2	0.00195	0.0016	0.0023
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.01795	2	0.01795	0.0113	0.0246	0.00525	2	0.00525	0.0047	0.0058
Zinc Total	mg/L	0.02445	2	0.02445	0.0124	0.0365	0.004	2	0.004	0.0034	0.0046

Table A3.6. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Salmon River Water Quality Parameters		Jul-93					Aug-93				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.03	7.92	8.14	NA	2	8.105	8.06	8.15
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	275.5	2	275.5	235	316	297.5	2	297.5	263	332
Hardness	mg/L	134	2	134	115	153	146	2	146	122	170
Alkalinity	mg/L	118	2	118	100	136	129.5	2	129.5	116	143
Temperature	°C	NR	0	NR	0	0	NR	0	NR	0	0
Turbidity	NTU	9.65	2	9.65	2.3	17	4.25	2	4.25	3	5.5
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1.7	2	1.7	1.3	2.1	1.55	2	1.55	1.4	1.7
Fluoride Dissolved	mg/L	0.14	2	0.14	0.12	0.16	0.155	2	0.155	0.14	0.17
Sulphate Dissolved	mg/L	21.45	2	21.45	16.9	26	22.65	2	22.65	17.3	28
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.2683	2	0.2683333	0.2167	0.32	0.225	2	0.225	0.17	0.28
Nitrate and Nitrite Dissolved	mg/L	0.1105	2	0.1105	0.069	0.152	0.0505	2	0.0505	0.03633	0.06467
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.1792	2	0.1791665	0.065	0.293	0.108167	2	0.1081665	0.087	0.12933
Aluminium Total	mg/L	1.198	2	1.198	0.316	2.08	0.566	2	0.566	0.224	0.908
Arsenic Total	mg/L	0.0013	2	0.00125	0.0011	0.001	0.0011	2	0.0011	0.0011	0.0011
Barium Total	mg/L	0.0304	2	0.03035	0.0208	0.04	0.02175	2	0.02175	0.02	0.0235
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0003	2	0.00025	0.0001	4E-04	0.00015	2	0.00015	0.0001	0.0002
Chromium Total	mg/L	0.0023	2	0.0023	0.0008	0.004	0.00115	2	0.00115	0.0005	0.0018
Cobalt Total	mg/L	0.001	2	0.00095	0.0002	0.002	0.00045	2	0.00045	0.0002	0.0007
Copper Total	mg/L	0.0035	2	0.00345	0.0016	0.005	0.00225	2	0.00225	0.0016	0.0029
Iron Total	mg/L	1.7395	2	1.7395	0.449	3.03	0.7755	2	0.7755	0.361	1.19
Lead Total	mg/L	0.0009	2	0.00085	0.0002	0.002	0.00035	2	0.00035	0.0002	0.0005
Manganese Total	mg/L	0.0807	2	0.08065	0.0333	0.128	0.03925	2	0.03925	0.0294	0.0491
Mercury Total	ug/L	0.0115	2	0.0115	0.01	0.013	0.008	2	0.008	0.007	0.009
Molybdneum Total	mg/L	0.0011	2	0.0011	0.0007	0.002	0.0012	2	0.0012	0.0009	0.0015
Nickel Total	mg/L	0.0027	2	0.00265	0.0009	0.004	0.00145	2	0.00145	0.0009	0.002
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0065	2	0.00645	0.0039	0.009	0.005	2	0.005	0.0039	0.0061
Zinc Total	mg/L	0.0057	2	0.0057	0.0014	0.01	0.00255	2	0.00255	0.0015	0.0036

Table A3.6. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Salmon River Water Quality Parameters		Sep-93					Oct-93				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.26	7.25	8.33	NA	2	8.25	8.17	8.33
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	415	3	418	381	446	441.5	2	441.5	419	464
Hardness	mg/L	203.667	3	205	189	217	201	2	201	191	211
Alkalinity	mg/L	179	3	182	170	185	184.5	2	184.5	178	191
Temperature	°C	7.66667	3	6	4	13	9	2	9	9	9
Turbidity	NTU	1.26667	3	1.4	0.8	1.6	0.68	2	0.68	0.67	0.69
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	2.53333	3	3	1.2	3.4	3.25	2	3.25	3.1	3.4
Fluoride Dissolved	mg/L	0.19667	3	0.19	0.18	0.22	0.2	2	0.2	0.19	0.21
Sulphate Dissolved	mg/L	35.3333	3	43	19	44	41.35	2	41.35	38.7	44
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.17222	3	0.18	0.133	0.203	0.16667	2	0.166667	0.1167	0.21667
Nitrate and Nitrite Dissolved	mg/L	0.04189	3	0.0353333	0.029	0.062	0.05967	2	0.059667	0.0213	0.098
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.06733	3	0.069	0.058	0.075	0.06883	2	0.068834	0.063	0.07467
Aluminium Total	mg/L	0.11333	3	0.122	0.089	0.129	0.093	2	0.093	0.083	0.103
Arsenic Total	mg/L	0.00113	3	0.0011	0.001	0.001	0.00105	2	0.00105	0.001	0.0011
Barium Total	mg/L	0.02373	3	0.0247	0.022	0.025	0.02405	2	0.02405	0.0232	0.0249
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	3	0.0001	1E-04	1E-04	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.00023	3	0.0002	2E-04	3E-04	0.0003	2	0.0003	0.0003	0.0003
Cobalt Total	mg/L	0.00017	3	0.0002	1E-04	2E-04	0.0002	2	0.0002	0.0002	0.0002
Copper Total	mg/L	0.00117	3	0.0012	0.001	0.001	0.0011	2	0.0011	0.0011	0.0011
Iron Total	mg/L	0.21833	3	0.23	0.189	0.236	0.2045	2	0.2045	0.191	0.218
Lead Total	mg/L	0.0002	3	0.0002	2E-04	2E-04	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.02827	3	0.0299	0.025	0.03	0.0325	2	0.0325	0.0322	0.0328
Mercury Total	ug/L	0.005	2	0.005	0.005	0.005	0.0065	2	0.0065	0.005	0.008
Molybdneum Total	mg/L	0.00193	3	0.002	0.002	0.002	0.00185	2	0.00185	0.0018	0.0019
Nickel Total	mg/L	0.00053	3	0.0005	5E-04	6E-04	0.00045	2	0.00045	0.0004	0.0005
Thallium Total	mg/L	0.0005	1	0.0005	5E-04	5E-04	NR	0	NR	0	0
Vanadium Total	mg/L	0.00313	3	0.0031	0.003	0.003	0.0024	2	0.0024	0.0021	0.0027
Zinc Total	mg/L	0.0007	3	0.0007	7E-04	7E-04	0.001	2	0.001	0.001	0.001

Table A3.6. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1993.

Salmon River Water Quality Parameters		Nov-93					Dec-93				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.145	8.07	8.22	NA	2	8.15	8.15	8.15
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	457.5	2	457.5	429	486	455	2	455	447	463
Hardness	mg/L	220.5	2	220.5	206	235	224	2	224	223	225
Alkalinity	mg/L	195	2	195	184	206	189.5	2	189.5	188	191
Temperature	°C	2.5	2	2.5	0	5	0.75	2	0.75	0	1.5
Turbidity	NTU	1.3	2	1.3	1	1.6	1.75	2	1.75	1	2.5
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.95	2	3.95	3.3	4.6	4.15	2	4.15	4.1	4.2
Fluoride Dissolved	mg/L	0.22	2	0.22	0.21	0.23	0.205	2	0.205	0.2	0.21
Sulphate Dissolved	mg/L	45.05	2	45.05	43.3	46.8	46.5	2	46.5	46.3	46.7
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.25167	2	0.2516667	0.23	0.27333	0.31333	2	0.313333	0.30333	0.32333
Nitrate and Nitrite Dissolved	mg/L	0.14917	2	0.1491666	0.1297	0.16867	0.22617	2	0.226167	0.21667	0.23567
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.05633	2	0.0563335	0.0517	0.061	0.08467	2	0.084667	0.078	0.09133
Aluminium Total	mg/L	0.0555	2	0.0555	0.04	0.071	0.104	2	0.104	0.054	0.154
Arsenic Total	mg/L	0.00105	2	0.00105	0.001	0.0011	0.00115	2	0.00115	0.0011	0.0012
Barium Total	mg/L	0.02495	2	0.02495	0.023	0.0269	0.02525	2	0.02525	0.0247	0.0258
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0013	2	0.0013	0.0003	0.0023	0.00035	2	0.00035	0.0003	0.0004
Cobalt Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.0002	2	0.0002	0.0001	0.0003
Copper Total	mg/L	0.0009	2	0.0009	0.0009	0.0009	0.0011	2	0.0011	0.0009	0.0013
Iron Total	mg/L	0.2225	2	0.2225	0.199	0.246	0.2705	2	0.2705	0.159	0.382
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0531	2	0.0531	0.033	0.0732	0.0438	2	0.0438	0.032	0.0556
Mercury Total	ug/L	0.0115	2	0.0115	0.006	0.017	0.005	2	0.005	0.005	0.005
Molybdneum Total	mg/L	0.002	2	0.002	0.002	0.002	0.0018	2	0.0018	0.0017	0.0019
Nickel Total	mg/L	0.0008	2	0.0008	0.0004	0.0012	0.0006	2	0.0006	0.0004	0.0008
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0025	2	0.0025	0.0024	0.0026	0.0025	2	0.0025	0.0024	0.0026
Zinc Total	mg/L	0.0006	2	0.0006	0.0006	0.0006	0.0011	2	0.0011	0.0007	0.0015

Table A3.7. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1994.

Salmon River Water Quality Parameters		Jan-94					Feb-94				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.29	8.18	8.4	NA	2	8.32	8.16	8.48
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	424	2	424	420	428	431.5	2	431.5	410	453
Hardness	mg/L	197	2	197	195	199	200	2	200	190	210
Alkalinity	mg/L	180	2	180	172	188	186.5	2	186.5	177	196
Temperature	°C	2	2	2	2	2	3.5	2	3.5	2	5
Turbidity	NTU	2.905	2	2.905	2.51	3.3	2.19	2	2.19	2.1	2.28
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.32	2	4.32	4.3	4.34	3.995	2	3.995	3.76	4.23
Fluoride Dissolved	mg/L	0.195	2	0.195	0.19	0.2	0.17	2	0.17	0.16	0.18
Sulphate Dissolved	mg/L	43	2	43	42.7	43.3	46.15	2	46.15	42.6	49.7
Sodium Dissolved	mg/L	14.7	1	14.7	14.7	14.7	14.4	2	14.4	13.7	15.1
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.3967	1	0.396667	0.39667	0.39667	NR	0	NR	0	0
Nitrate and Nitrite Dissolved	mg/L	0.227	2	0.227	0.189	0.265	0.22517	2	0.2251667	0.19833	0.252
Nitrogen Total	mg/L	0.4337	1	0.433667	0.43367	0.43367	0.43217	2	0.4321667	0.395	0.469333
Ammonia Dissolved	mg/L	0.0127	1	0.012667	0.01267	0.01267	0.01517	2	0.0151665	0.01333	0.017
Nitrite Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrate Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Phosphorous Total	mg/L	0.0931	2	0.093067	0.06847	0.11767	0.05395	2	0.05395	0.04597	0.061933
Aluminium Total	mg/L	0.1625	2	0.1625	0.11	0.215	0.124	2	0.124	0.116	0.132
Arsenic Total	mg/L	0.001	2	0.001	0.0009	0.0011	0.00085	2	0.00085	0.0008	0.0009
Barium Total	mg/L	0.0256	2	0.0256	0.025	0.0262	0.02495	2	0.02495	0.0244	0.0255
Bromide Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0005	2	0.0005	0.0003	0.0007	0.0003	2	0.0003	0.0003	0.0003
Cobalt Total	mg/L	0.0003	2	0.00025	0.0002	0.0003	0.0002	2	0.0002	0.0002	0.0002
Copper Total	mg/L	0.0016	2	0.00155	0.0014	0.0017	0.0011	2	0.0011	0.001	0.0012
Iron Total	mg/L	0.3965	2	0.3965	0.293	0.5	0.312	2	0.312	0.304	0.32
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0536	2	0.05355	0.0445	0.0626	0.05025	2	0.05025	0.0411	0.0594
Mercury Total	ug/L	0.005	2	0.005	0.005	0.005	0.0075	2	0.0075	0.005	0.01
Molybdenum Total	mg/L	0.0018	2	0.00175	0.0016	0.0019	0.00175	2	0.00175	0.0017	0.0018
Nickel Total	mg/L	0.0008	2	0.00075	0.0007	0.0008	0.00145	2	0.00145	0.0012	0.0017
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0029	2	0.00285	0.0028	0.0029	0.0024	2	0.0024	0.0023	0.0025
Zinc Total	mg/L	0.0017	2	0.00165	0.0011	0.0022	0.0012	2	0.0012	0.0012	0.0012

Table A3.7. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1994.

Salmon River Water Quality Parameters		Mar-94					May-94				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.39	8.35	8.43	NA	3	7.7	7.67	7.87
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	400	2	400	377	423	150	3	141	118	191
Hardness	mg/L	181.5	2	181.5	170	193	69.9333	3	65.1	54.3	90.4
Alkalinity	mg/L	172.5	2	172.5	163	182	63.6667	3	59	49	83
Temperature	°C	6.5	2	6.5	6	7	11.3333	3	11	9	14
Turbidity	NTU	3.915	2	3.915	3.75	4.08	11.6667	3	11	10	14
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.115	2	4.115	3.66	4.57	1.00667	3	0.92	0.67	1.43
Fluoride Dissolved	mg/L	0.19	2	0.19	0.19	0.19	NR	0	NR	0	0
Sulphate Dissolved	mg/L	41.05	2	41.05	39.5	42.6	9.26667	3	8.6	6.9	12.3
Sodium Dissolved	mg/L	14.65	2	14.65	14.2	15.1	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	NR	0	NR	0	0	0.27444	3	0.27	0.2567	0.2967
Nitrate and Nitrite Dissolved	mg/L	0.243	2	0.243	0.19467	0.2913	0.03978	3	0.034	0.0267	0.0587
Nitrogen Total	mg/L	0.547	2	0.547	0.51367	0.5803	NR	0	NR	0	0
Ammonia Dissolved	mg/L	0.037	2	0.037	0.005	0.069	NR	0	NR	0	0
Nitrite Total	mg/L	NR	0	NR	0	0	0.005	3	0.005	0.005	0.005
Nitrate Dissolved	mg/L	NR	0	NR	0	0	0.036	3	0.028	0.024	0.056
Phosphorous Total	mg/L	0.0908	2	0.0908	0.08237	0.0992	0.19067	3	0.186	0.1553	0.2307
Aluminium Total	mg/L	0.3055	2	0.3055	0.128	0.483	1.67667	3	1.82	1.28	1.93
Arsenic Total	mg/L	0.0009	2	0.0009	0.0009	0.0009	0.00077	3	0.0008	0.0007	0.0008
Barium Total	mg/L	0.0263	2	0.0263	0.0256	0.027	0.02943	3	0.0305	0.0268	0.031
Bromide Dissolved	mg/L	NR	0	NR	0	0	0.03	3	0.02	0.02	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.00027	3	0.0003	0.0002	0.0003
Chromium Total	mg/L	0.00075	2	0.00075	0.0007	0.0008	0.00653	3	0.0044	0.0035	0.0117
Cobalt Total	mg/L	0.0004	2	0.0004	0.0003	0.0005	0.00133	3	0.0014	0.001	0.0016
Copper Total	mg/L	0.00225	2	0.00225	0.0018	0.0027	0.0052	3	0.0055	0.0041	0.006
Iron Total	mg/L	0.5185	2	0.5185	0.324	0.713	2.47667	3	2.75	1.86	2.82
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.00133	3	0.0015	0.0009	0.0016
Manganese Total	mg/L	0.056	2	0.056	0.0498	0.0622	0.0711	3	0.0731	0.0587	0.0815
Mercury Total	ug/L	0.005	2	0.005	0.005	0.005	0.04933	3	0.033	0.009	0.106
Molybdneum Total	mg/L	0.0017	2	0.0017	0.0016	0.0018	0.00067	3	0.0006	0.0006	0.0008
Nickel Total	mg/L	0.001	2	0.001	0.0008	0.0012	0.00357	3	0.0036	0.0028	0.0043
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00325	2	0.00325	0.0025	0.004	0.00757	3	0.0079	0.0063	0.0085
Zinc Total	mg/L	0.00215	2	0.00215	0.0016	0.0027	0.0078	3	0.0079	0.0058	0.0097

Table A3.7. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1994.

Salmon River Water Quality Parameters		Jun-94					Jul-94				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.02	8.01	8.03	NA	2	8.185	8.15	8.22
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	274.5	2	274.5	252	297	355.5	2	355.5	297	414
Hardness	mg/L	133	2	133	121	145	169.5	2	169.5	140	199
Alkalinity	mg/L	117	2	117	107	127	151.5	2	151.5	129	174
Temperature	°C	16	2	16	12.5	19.5	20.85	2	20.85	19.2	22.5
Turbidity	NTU	2.1	2	2.1	1.6	2.6	1.85	2	1.85	1.5	2.2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1.995	2	1.995	1.74	2.25	3	2	3	2.24	3.76
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	22	2	22	19.4	24.6	33.4	2	33.4	25.7	41.1
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.235	2	0.235	0.19	0.28	0.145	2	0.145	0.14	0.15
Nitrate and Nitrite Dissolved	mg/L	0.034	2	0.034	0.028	0.04	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.032	2	0.032	0.03	0.034	0.019	2	0.019	0.012	0.026
Phosphorous Total	mg/L	0.1145	2	0.1145	0.081	0.148	0.0885	2	0.0885	0.078	0.099
Aluminium Total	mg/L	0.422	2	0.422	0.4	0.444	0.199	2	0.199	0.134	0.264
Arsenic Total	mg/L	0.00075	2	0.00075	0.0007	0.0008	0.0009	2	0.0009	0.0008	0.001
Barium Total	mg/L	0.0208	2	0.0208	0.0193	0.0223	0.0236	2	0.02355	0.0198	0.0273
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0008	2	0.0008	0.0008	0.0008	0.0004	2	0.0004	0.0002	0.0006
Cobalt Total	mg/L	0.00045	2	0.00045	0.0004	0.0005	0.0002	2	0.0002	0.0002	0.0002
Copper Total	mg/L	0.00235	2	0.00235	0.0023	0.0024	0.0014	2	0.0014	0.0011	0.0017
Iron Total	mg/L	0.615	2	0.615	0.575	0.655	0.3315	2	0.3315	0.264	0.399
Lead Total	mg/L	0.00025	2	0.00025	0.0002	0.0003	0.0003	2	0.0003	0.0002	0.0004
Manganese Total	mg/L	0.0341	2	0.0341	0.0321	0.0361	0.0307	2	0.0307	0.0274	0.034
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.0011	2	0.0011	0.001	0.0012	0.0017	2	0.00165	0.0013	0.002
Nickel Total	mg/L	0.00125	2	0.00125	0.0012	0.0013	0.0008	2	0.0008	0.0006	0.001
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00385	2	0.00385	0.0037	0.004	0.0031	2	0.0031	0.0028	0.0034
Zinc Total	mg/L	0.0023	2	0.0023	0.0021	0.0025	0.001	2	0.001	0.0006	0.0014

Table A3.7. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1994.

Salmon River Water Quality Parameters		Aug-94					Sep-94					Oct-94
		mean	n	median	min	max	mean	n	median	min	max	
pH	pH units	NA	2	8.185	8.17	8.2	NA	3	8.23	8.23	8.29	8.18
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Specific Conductance	µsie/cm	445.5	2	445.5	442	449	460.667	3	459	453	470	469
Hardness	mg/L	210.5	2	210.5	210	211	223	3	222	218	229	229
Alkalinity	mg/L	181.5	2	181.5	180	183	193.667	3	192	190	199	198
Temperature	°C	20.5	2	20.5	19.5	21.5	12.6667	3	13.5	8.5	16	8
Turbidity	NTU	1.3	2	1.3	0.9	1.7	1.33333	3	1.5	1	1.5	1
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Chloride Dissolved	mg/L	4.195	2	4.195	4.16	4.23	3.89667	3	3.84	3.83	4.02	4.38
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Sulphate Dissolved	mg/L	31.1	2	31.1	16.7	45.5	48.6333	3	49.2	47.3	49.4	49.9
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrogen Dissolved	mg/L	0.13	2	0.13	0.11	0.15	0.10667	3	0.1	0.1	0.12	0.06
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	3	0.005	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.008	2	0.008	0.002	0.014	0.01567	3	0.015	0.002	0.03	0.002
Phosphorous Total	mg/L	0.056	2	0.056	0.047	0.065	0.05567	3	0.056	0.053	0.058	0.047
Aluminium Total	mg/L	0.0645	2	0.0645	0.053	0.076	0.06367	3	0.063	0.046	0.082	0.114
Arsenic Total	mg/L	0.0011	2	0.0011	0.001	0.001	0.00103	3	0.001	0.001	0.0011	0.001
Barium Total	mg/L	0.02825	2	0.02825	0.028	0.028	0.0272	3	0.0273	0.027	0.0273	0.0273
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	3	0.05	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	1E-04	0.0001	3	0.0001	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.00025	2	0.00025	2E-04	3E-04	0.00037	3	0.0002	0.0002	0.0007	0.0002
Cobalt Total	mg/L	0.0001	2	0.0001	1E-04	1E-04	0.00013	3	0.0001	0.0001	0.0002	0.0001
Copper Total	mg/L	0.0009	2	0.0009	9E-04	9E-04	0.00073	3	0.0007	0.0007	0.0008	0.0007
Iron Total	mg/L	0.1855	2	0.1855	0.165	0.206	0.17433	3	0.178	0.133	0.212	0.222
Lead Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.0002	3	0.0002	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0426	2	0.0426	0.038	0.047	0.0378	3	0.0364	0.0344	0.0426	0.042
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0	
Molybdenum Total	mg/L	0.00215	2	0.00215	0.002	0.002	0.0022	3	0.0022	0.0022	0.0022	0.002
Nickel Total	mg/L	0.00065	2	0.00065	6E-04	7E-04	0.00027	3	0.0002	0.0002	0.0004	0.0003
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Vanadium Total	mg/L	0.00215	2	0.00215	0.002	0.002	0.0018	3	0.0017	0.0017	0.002	0.002
Zinc Total	mg/L	0.0002	2	0.0002	2E-04	2E-04	0.00047	3	0.0004	0.0002	0.0008	0.0004

Table A3.7. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1994.

Salmon River Water Quality Parameters		Nov-94					Dec-94				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.13	8.09	8.17	NA	2	8.04	8.02	8.06
Nonfilterable Residues	mg/L	10	1	10	10	10	10	1	10	10	10
Specific Conductance	µsie/cm	479.5	2	479.5	467	492	497	2	497	437	557
Hardness	mg/L	235	2	235	230	240	239	2	239	208	270
Alkalinity	mg/L	197	2	197	194	200	204	2	204	180	228
Temperature	°C	1.25	2	1.25	0	2.5	2	2	2	0	4
Turbidity	NTU	0.95	2	0.95	0.8	1.1	1.44	2	1.44	0.88	2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.085	2	4.085	3.95	4.22	4.595	2	4.595	4.45	4.74
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	52.4	2	52.4	48.5	56.3	56.65	2	56.65	45.5	67.8
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.17	2	0.17	0.15	0.19	0.355	2	0.355	0.27	0.44
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.0235	2	0.0235	0.005	0.042
Nitrate Dissolved	mg/L	0.089	2	0.089	0.067	0.111	0.202	2	0.202	0.137	0.267
Phosphorous Total	mg/L	0.0535	2	0.0535	0.048	0.059	0.0705	2	0.0705	0.06	0.081
Aluminium Total	mg/L	0.0995	2	0.0995	0.086	0.113	0.105	2	0.105	0.058	0.152
Arsenic Total	mg/L	0.0007	1	0.0007	0.0007	7E-04	0.00085	2	0.00085	0.0007	0.001
Barium Total	mg/L	0.02695	2	0.02695	0.0258	0.028	0.0301	2	0.0301	0.0268	0.0334
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	1E-04	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0004	2	0.0004	0.0003	5E-04	0.0003	2	0.0003	0.0002	0.0004
Cobalt Total	mg/L	0.00015	2	0.00015	0.0001	2E-04	0.00015	2	0.00015	0.0001	0.0002
Copper Total	mg/L	0.0009	2	0.0009	0.0007	0.001	0.00095	2	0.00095	0.0007	0.0012
Iron Total	mg/L	0.2205	2	0.2205	0.208	0.233	0.2625	2	0.2625	0.171	0.354
Lead Total	mg/L	0.0002	2	0.0002	0.0002	2E-04	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.03915	2	0.03915	0.0353	0.043	0.04365	2	0.04365	0.0386	0.0487
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.00215	2	0.00215	0.0021	0.002	0.00225	2	0.00225	0.002	0.0025
Nickel Total	mg/L	0.00055	2	0.00055	0.0004	7E-04	0.00055	2	0.00055	0.0004	0.0007
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00185	2	0.00185	0.0018	0.002	0.002	2	0.002	0.0017	0.0023
Zinc Total	mg/L	0.0014	2	0.0014	0.0012	0.002	0.00085	2	0.00085	0.0004	0.0013

Table A3.8. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Salmon River Water Quality Parameters		Jan-95					Feb-95				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8	7.92	8.11	NA	2	8.15	8.05	8.25
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	461.67	3	457	411	517	472	2	472	432	512
Hardness	mg/L	220.33	3	219	188	254	229.5	2	229.5	208	251
Alkalinity	mg/L	186	3	185	159	214	191.5	2	191.5	175	208
Temperature	°C	1.1667	3	1	0	2.5	0.75	2	0.75	0.5	1
Turbidity	NTU	2.8667	3	2.3	1.2	5.1	2.3	2	2.3	1.5	3.1
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.9367	3	4.92	4.91	4.98	5.55	2	5.55	5.14	5.96
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	49.9	3	49.3	41.8	58.6	49.4	2	49.4	43.8	55
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.7067	3	0.41	0.31	1.4	0.3165	2	0.3165	0.286	0.347
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	3	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.243	3	0.25	0.189	0.29	0.178	2	0.178	0.142	0.214
Phosphorous Total	mg/L	0.1363	3	0.096	0.053	0.26	0.065	2	0.065	0.06	0.07
Aluminium Total	mg/L	0.238	3	0.176	0.058	0.48	0.1665	2	0.1665	0.062	0.271
Arsenic Total	mg/L	0.0009	3	0.0009	8E-04	0.001	0.0008	2	0.0008	8E-04	8E-04
Barium Total	mg/L	0.0286	3	0.0278	0.028	0.03	0.0297	2	0.0297	0.028	0.031
Bromide Dissolved	mg/L	0.05	3	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	3	0.0001	1E-04	1E-04	0.0001	2	0.0001	1E-04	1E-04
Chromium Total	mg/L	0.0005	3	0.0004	2E-04	0.001	0.0002	2	0.0002	2E-04	2E-04
Cobalt Total	mg/L	0.0003	3	0.0002	1E-04	5E-04	0.00025	2	0.00025	2E-04	3E-04
Copper Total	mg/L	0.0017	3	0.0013	7E-04	0.003	0.0011	2	0.0011	9E-04	0.001
Iron Total	mg/L	0.518	3	0.428	0.213	0.913	0.463	2	0.463	0.303	0.623
Lead Total	mg/L	0.0002	3	0.0002	2E-04	2E-04	0.0002	2	0.0002	2E-04	2E-04
Manganese Total	mg/L	0.0627	3	0.0609	0.05	0.077	0.0883	2	0.0883	0.071	0.106
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdneum Total	mg/L	0.0018	3	0.002	0.001	0.002	0.0019	2	0.0019	0.002	0.002
Nickel Total	mg/L	0.0008	3	0.0007	4E-04	0.001	0.00045	2	0.00045	3E-04	6E-04
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0026	3	0.0026	0.002	0.004	0.0022	2	0.0022	0.002	0.003
Zinc Total	mg/L	0.0026	3	0.0017	5E-04	0.006	0.0017	2	0.0017	0.001	0.002

Table A3.8. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Salmon River Water Quality Parameters		Mar-95					Apr-95				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.185	8.1	8.27	NA	2	8.115	8.01	8.22
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	427.5	2	427.5	421	434	281.5	2	281.5	255	308
Hardness	mg/L	202	2	202	199	205	133	2	133	116	150
Alkalinity	mg/L	170.5	2	170.5	168	173	118.5	2	118.5	106	131
Temperature	°C	5.5	2	5.5	4	7	6.5	2	6.5	5	8
Turbidity	NTU	1.9	2	1.9	1.5	2.3	5.75	2	5.75	3	8.5
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.6	2	4.6	4.49	4.71	2.515	2	2.515	2.2	2.83
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	44.65	2	44.65	43.7	45.6	26	2	26	21.7	30.3
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.245	2	0.245	0.19	0.3	0.255	2	0.255	0.24	0.27
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.0715	2	0.0715	0.036	0.107	0.032	2	0.032	0.031	0.033
Phosphorous Total	mg/L	0.0705	2	0.0705	0.058	0.083	0.122	2	0.122	0.079	0.165
Aluminium Total	mg/L	0.2215	2	0.2215	0.197	0.246	0.881	2	0.881	0.482	1.28
Arsenic Total	mg/L	0.00075	2	0.00075	0.0007	8E-04	0.00085	2	0.00085	0.0008	0.0009
Barium Total	mg/L	0.0244	2	0.0244	0.0239	0.025	0.02445	2	0.02445	0.0208	0.0281
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	1E-04	0.00015	2	0.00015	0.0001	0.0002
Chromium Total	mg/L	0.0005	2	0.0005	0.0004	6E-04	0.00155	2	0.00155	0.0008	0.0023
Cobalt Total	mg/L	0.00025	2	0.00025	0.0002	3E-04	0.00065	2	0.00065	0.0004	0.0009
Copper Total	mg/L	0.0013	2	0.0013	0.0011	0.002	0.00315	2	0.00315	0.0021	0.0042
Iron Total	mg/L	0.3735	2	0.3735	0.349	0.398	1.2935	2	1.2935	0.707	1.88
Lead Total	mg/L	0.0008	2	0.0008	0.0002	0.001	0.0005	2	0.0005	0.0002	0.0008
Manganese Total	mg/L	0.04625	2	0.04625	0.0454	0.047	0.08285	2	0.08285	0.0547	0.111
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.00175	2	0.00175	0.0017	0.002	0.0012	2	0.0012	0.0011	0.0013
Nickel Total	mg/L	0.00075	2	0.00075	0.0007	8E-04	0.002	2	0.002	0.0013	0.0027
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00275	2	0.00275	0.0027	0.003	0.0052	2	0.0052	0.0039	0.0065
Zinc Total	mg/L	0.0013	2	0.0013	0.0011	0.002	0.0045	2	0.0045	0.0022	0.0068

Table A3.8. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Salmon River Water Quality Parameters		May-95					Jun-95				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	7.93	7.86	8	NA	2	8.215	8.21	8.22
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	132.5	2	132.5	124	141	190.5	2	190.5	188	193
Hardness	mg/L	57.65	2	57.65	52.2	63.1	85.55	2	85.55	81.9	89.2
Alkalinity	mg/L	51.9	2	51.9	46.4	57.4	77.65	2	77.65	74	81.3
Temperature	°C	9.5	2	9.5	9	10	10.5	2	10.5	9	12
Turbidity	NTU	22	2	22	14	30	3.15	2	3.15	3.1	3.2
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	0.885	2	0.885	0.8	0.97	1.315	2	1.315	1.26	1.37
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	8.2	2	8.2	7.5	8.9	12.75	2	12.75	12.2	13.3
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.3	2	0.3	0.26	0.34	0.225	2	0.225	0.21	0.24
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.044	2	0.044	0.042	0.046	0.0555	2	0.0555	0.045	0.066
Phosphorous Total	mg/L	0.2325	2	0.2325	0.165	0.3	0.13	2	0.13	0.129	0.131
Aluminium Total	mg/L	2.55	2	2.55	1.54	3.56	0.982	2	0.982	0.724	1.24
Arsenic Total	mg/L	0.0009	2	0.0009	0.0007	0.0011	0.0008	2	0.00075	0.0007	0.0008
Barium Total	mg/L	0.0355	2	0.0355	0.0261	0.0449	0.0211	2	0.0211	0.0185	0.0237
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.00035	2	0.00035	0.0002	0.0005	0.0002	2	0.00015	0.0001	0.0002
Chromium Total	mg/L	0.0045	2	0.0045	0.0027	0.0063	0.0026	2	0.0026	0.0026	0.0026
Cobalt Total	mg/L	0.00185	2	0.00185	0.0012	0.0025	0.0007	2	0.0007	0.0005	0.0009
Copper Total	mg/L	0.00675	2	0.00675	0.0044	0.0091	0.0034	2	0.00335	0.0028	0.0039
Iron Total	mg/L	3.63	2	3.63	2.2	5.06	1.44	2	1.44	1.09	1.79
Lead Total	mg/L	0.00205	2	0.00205	0.0012	0.0029	0.0008	2	0.0008	0.0006	0.001
Manganese Total	mg/L	0.11225	2	0.11225	0.0665	0.158	0.0525	2	0.0525	0.043	0.062
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdneum Total	mg/L	0.00055	2	0.00055	0.0005	0.0006	0.0009	2	0.00085	0.0008	0.0009
Nickel Total	mg/L	0.00495	2	0.00495	0.0031	0.0068	0.0025	2	0.0025	0.0023	0.0027
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0093	2	0.0093	0.0064	0.0122	0.005	2	0.005	0.0044	0.0056
Zinc Total	mg/L	0.0104	2	0.0104	0.0064	0.0144	0.0053	2	0.00525	0.004	0.0065

Table A3.8. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Salmon River Water Quality Parameters		Aug-95					Sep-95				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.3	8.26	8.34	NA	4	8.345	8.28	8.42
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	388	2	388	379	397	427	4	427	420	434
Hardness	mg/L	188.3	2	188.3	179	197.6	214.25	4	215	206	221
Alkalinity	mg/L	164.5	2	164.5	161	168	183.75	4	183.5	180	188
Temperature	°C	16	2	16	14	18	13.75	4	12	12	19
Turbidity	NTU	1.005	2	1.005	0.91	1.1	0.55	4	0.645	0.16	0.75
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	4.015	2	4.015	3.93	4.1	4.04	4	4.06	3.88	4.16
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	39.45	2	39.45	38.1	40.8	45.875	4	46.1	43.6	47.7
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.2	2	0.2	0.18	0.22	0.1375	4	0.135	0.09	0.19
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	4	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.047	2	0.047	0.037	0.057	0.0098	4	0.011	0.003	0.014
Phosphorous Total	mg/L	0.0725	2	0.0725	0.059	0.086	0.0648	4	0.066	0.059	0.068
Aluminium Total	mg/L	0.057	2	0.057	0.052	0.062	0.1025	4	0.097	0.047	0.169
Arsenic Total	mg/L	0.0008	2	0.0008	0.0007	9E-04	0.001	2	0.001	0.0009	0.001
Barium Total	mg/L	0.0242	2	0.0242	0.0232	0.025	0.0271	4	0.02685	0.0259	0.029
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	4	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	1E-04	0.0001	4	0.0001	0.0001	1E-04
Chromium Total	mg/L	0.0003	2	0.0003	0.0002	4E-04	0.0003	4	0.00025	0.0002	3E-04
Cobalt Total	mg/L	0.00015	2	0.00015	0.0001	2E-04	0.0002	4	0.0002	0.0002	2E-04
Copper Total	mg/L	0.00065	2	0.00065	0.0004	9E-04	0.0013	4	0.0013	0.0012	0.002
Iron Total	mg/L	0.172	2	0.172	0.164	0.18	0.2278	4	0.232	0.163	0.284
Lead Total	mg/L	0.0002	2	0.0002	0.0002	2E-04	0.0002	4	0.0002	0.0002	2E-04
Manganese Total	mg/L	0.03325	2	0.03325	0.0311	0.035	0.0467	4	0.0446	0.0413	0.056
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.0019	2	0.0019	0.0018	0.002	0.0021	4	0.00205	0.002	0.002
Nickel Total	mg/L	0.0005	2	0.0005	0.0005	5E-04	0.0006	4	0.0005	0.0005	7E-04
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0021	2	0.0021	0.002	0.002	0.0023	4	0.00225	0.0022	0.003
Zinc Total	mg/L	0.0005	2	0.0005	0.0004	6E-04	0.001	4	0.00085	0.0008	0.002

Table A3.8. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Salmon River Water Quality Parameters		Oct-95					Nov-95				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.25	8.24	8.26	NA	2	8.2	8.06	8.34
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	402	2	402	368	436	325	2	325	265	385
Hardness	mg/L	190	2	190	176	204	156.95	2	156.95	124.9	189
Alkalinity	mg/L	157	2	157	135	179	134	2	134	104	164
Temperature	°C	8	2	8	8	8	2.5	2	2.5	1	4
Turbidity	NTU	1.2	2	1.2	0.8	1.6	2.45	2	2.45	1	3.9
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.82	2	3.82	3.74	3.9	3.26	2	3.26	2.69	3.83
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	39.8	2	39.8	35.9	43.7	32	2	32	24.7	39.3
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.175	2	0.175	0.14	0.21	0.255	2	0.255	0.16	0.35
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.07725	2	0.07725	0.018	0.1365	0.0915	2	0.0915	0.045	0.138
Phosphorous Total	mg/L	0.0705	2	0.0705	0.055	0.086	0.075	2	0.075	0.061	0.089
Aluminium Total	mg/L	0.105	2	0.105	0.072	0.138	0.326	2	0.326	0.132	0.52
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Barium Total	mg/L	0.0243	2	0.0243	0.0227	0.0259	0.02165	2	0.02165	0.0201	0.0232
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.03	2	0.03	0.01	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.00025	2	0.00025	0.0002	0.0003	0.0008	2	0.0008	0.0006	0.001
Cobalt Total	mg/L	0.00015	2	0.00015	0.0001	0.0002	0.00035	2	0.00035	0.0002	0.0005
Copper Total	mg/L	0.00115	2	0.00115	0.0011	0.0012	0.00165	2	0.00165	0.0011	0.0022
Iron Total	mg/L	0.24	2	0.24	0.191	0.289	0.522	2	0.522	0.3	0.744
Lead Total	mg/L	0.0002	2	0.0002	0.0002	0.0002	0.00025	2	0.00025	0.0002	0.0003
Manganese Total	mg/L	0.0407	2	0.0407	0.0403	0.0411	0.0465	2	0.0465	0.0458	0.0472
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdneum Total	mg/L	0.0018	2	0.0018	0.0016	0.002	0.00145	2	0.00145	0.0012	0.0017
Nickel Total	mg/L	0.0005	2	0.0005	0.0004	0.0006	0.00115	2	0.00115	0.0009	0.0014
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.002	2	0.002	0.0019	0.0021	0.0027	2	0.0027	0.0019	0.0035
Zinc Total	mg/L	0.00075	2	0.00075	0.0005	0.001	0.0016	2	0.0016	0.0009	0.0023

Table A3.8. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1995.

Salmon River Water Quality Parameters		Dec-95				
		mean	n	median	min	max
pH	pH units	NA	2	8.24	8.24	8.24
Nonfilterable Residues	mg/L	NR	0	NR	0	0
Specific Conductance	µsie/cm	290.5	2	290.5	262	319
Hardness	mg/L	135.5	2	135.5	123	148
Alkalinity	mg/L	123	2	123	111	135
Temperature	°C	2	2	2	2	2
Turbidity	NTU	4.55	2	4.55	4.1	5
Calcium Dissolved	mg/L	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.16	2	3.16	2.71	3.61
Fluoride Dissolved	mg/L	NR	0	NR	0	0
Sulphate Dissolved	mg/L	26.9	2	26.9	23	30.8
Sodium Dissolved	mg/L	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.36	2	0.36	0.34	0.38
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.1955	2	0.1955	0.184	0.207
Phosphorous Total	mg/L	0.115	2	0.115	0.101	0.129
Aluminium Total	mg/L	0.553	2	0.553	0.475	0.631
Arsenic Total	mg/L	NR	0	NR	0	0
Barium Total	mg/L	0.0232	2	0.0232	0.0223	0.0241
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0011	2	0.0011	0.0011	0.0011
Cobalt Total	mg/L	0.0005	2	0.0005	0.0005	0.0005
Copper Total	mg/L	0.00195	2	0.00195	0.0017	0.0022
Iron Total	mg/L	0.7795	2	0.7795	0.753	0.806
Lead Total	mg/L	0.00035	2	0.00035	0.0003	0.0004
Manganese Total	mg/L	0.05465	2	0.05465	0.0538	0.0555
Mercury Total	ug/L	NR	0	NR	0	0
Molybdenum Total	mg/L	0.0013	2	0.0013	0.0012	0.0014
Nickel Total	mg/L	0.00145	2	0.00145	0.0014	0.0015
Thallium Total	mg/L	NR	0	NR	0	0
Vanadium Total	mg/L	0.0038	2	0.0038	0.0037	0.0039
Zinc Total	mg/L	0.00255	2	0.00255	0.0023	0.0028

Table A3.9. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1996.

Salmon River Water Quality Parameters		Jan-96					Feb-96				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	3	8.03	7.81	8.298	NA	2	8.105	8.08	8.13
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	371	3	359	344	410	407	2	407	395	419
Hardness	mg/L	176	3	168	161	199	192.5	2	192.5	191	194
Alkalinity	mg/L	158.333	3	156	146	173	166.5	2	166.5	161	172
Temperature	°C	1.5	3	2	0	2.5	1	2	1	1	1
Turbidity	NTU	2.13333	3	2.25	1.75	2.4	2.2	2	2.2	0.9	3.5
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.17	3	3.85	1.75	3.91	4.96	2	4.96	4.19	5.73
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	35.9667	3	33.5	32.2	42.2	39.2	2	39.2	39	39.4
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.35	3	0.35	0.31	0.39	0.42	2	0.42	0.36	0.48
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	3	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.22	3	0.23	0.199	0.231	0.241	2	0.241	0.212	0.27
Phosphorous Total	mg/L	0.08433	3	0.09	0.065	0.098	0.09	2	0.09	0.079	0.101
Aluminium Total	mg/L	0.16433	3	0.156	0.107	0.23	0.2325	2	0.2325	0.081	0.384
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Barium Total	mg/L	0.02323	3	0.0219	0.0216	0.0262	0.025	2	0.02495	0.0228	0.0271
Bromide Dissolved	mg/L	0.05	3	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	3	0.0001	0.0001	0.0001	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0004	3	0.0004	0.0003	0.0005	0.0007	2	0.00065	0.0004	0.0009
Cobalt Total	mg/L	0.00023	3	0.0002	0.0002	0.0003	0.0004	2	0.00035	0.0002	0.0005
Copper Total	mg/L	0.0016	3	0.0008	0.0007	0.0033	0.0016	2	0.00155	0.0012	0.0019
Iron Total	mg/L	0.34567	3	0.343	0.269	0.425	0.4555	2	0.4555	0.183	0.728
Lead Total	mg/L	0.0002	3	0.0002	0.0002	0.0002	0.0002	2	0.0002	0.0002	0.0002
Manganese Total	mg/L	0.0432	3	0.0424	0.0422	0.045	0.0463	2	0.04625	0.0312	0.0613
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.00163	3	0.0016	0.0015	0.0018	0.0017	2	0.0017	0.0016	0.0018
Nickel Total	mg/L	0.0007	3	0.0008	0.0005	0.0008	0.001	2	0.001	0.0008	0.0012
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0027	3	0.0029	0.0022	0.003	0.003	2	0.00295	0.0027	0.0032
Zinc Total	mg/L	0.00103	3	0.0011	0.0007	0.0013	0.0014	2	0.0014	0.0006	0.0022

Table A3.9. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1996.

Salmon River Water Quality Parameters		Mar-96					Apr-96				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.045	7.83	8.26	NA	2	8.055	7.87	8.24
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	319.5	2	319.5	290	349	170.5	2	170.5	158	183
Hardness	mg/L	153.5	2	153.5	139	168	77.55	2	77.55	72.3	82.8
Alkalinity	mg/L	137.5	2	137.5	123	152	75.65	2	75.65	72.9	78.4
Temperature	°C	4.5	2	4.5	3	6	9.5	2	9.5	9	10
Turbidity	NTU	8.75	2	8.75	3.5	14	20.5	2	20.5	20	21
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.91	2	3.91	3.87	3.95	1.46	2	1.46	1.44	1.48
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	25.1	2	25.1	19.7	30.5	9.65	2	9.65	9.3	10
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.742	2	0.742	0.26	1.224	0.4	2	0.4	0.32	0.48
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.1695	2	0.1695	0.123	0.216	0.161	2	0.161	0.093	0.229
Phosphorous Total	mg/L	0.3385	2	0.3385	0.126	0.551	0.295	2	0.295	0.29	0.3
Aluminium Total	mg/L	1.0045	2	1.0045	0.589	1.42	2.36	2	2.36	2.13	2.59
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Barium Total	mg/L	0.02935	2	0.02935	0.0243	0.034	0.03575	2	0.03575	0.0341	0.0374
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.00015	2	0.00015	0.0001	2E-04	0.0004	2	0.0004	0.0004	0.0004
Chromium Total	mg/L	0.00225	2	0.00225	0.0013	0.003	0.00465	2	0.00465	0.0043	0.005
Cobalt Total	mg/L	0.001	2	0.001	0.0005	0.002	0.00215	2	0.00215	0.002	0.0023
Copper Total	mg/L	0.0042	2	0.0042	0.0021	0.006	0.0066	2	0.0066	0.0061	0.0071
Iron Total	mg/L	1.72	2	1.72	0.94	2.5	3.73	2	3.73	3.39	4.07
Lead Total	mg/L	0.00065	2	0.00065	0.0002	0.001	0.0014	2	0.0014	0.0014	0.0014
Manganese Total	mg/L	0.0781	2	0.0781	0.0562	0.1	0.10765	2	0.10765	0.0993	0.116
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdneum Total	mg/L	0.00155	2	0.00155	0.0015	0.002	0.00085	2	0.00085	0.0008	0.0009
Nickel Total	mg/L	0.00295	2	0.00295	0.0018	0.004	0.0054	2	0.0054	0.005	0.0058
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.00595	2	0.00595	0.0045	0.007	0.01	2	0.01	0.0092	0.0108
Zinc Total	mg/L	0.0064	2	0.0064	0.0028	0.01	0.0107	2	0.0107	0.01	0.0114

Table A3.9. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1996.

Salmon River Water Quality Parameters		May-96					Jun-96				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	2	8.01	7.99	8.03	NA	2	7.98	7.89	8.07
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	194	2	194	147	241	215	2	215	180	250
Hardness	mg/L	88.35	2	88.35	65.7	111	98.6	2	98.6	83.2	114
Alkalinity	mg/L	84.5	2	84.5	69.5	99.5	98.95	2	98.95	83.9	114
Temperature	°C	10.5	2	10.5	10	11	13	2	13	11	15
Turbidity	NTU	14.25	2	14.25	6.5	22	41	2	41	18	64
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	1.6	2	1.6	1.06	2.14	1.89	2	1.89	1.39	2.39
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	12.185	2	12.185	8.37	16	13.285	2	13.285	9.87	16.7
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.365	2	0.365	0.3	0.43	0.285	2	0.285	0.23	0.34
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.049	2	0.049	0.033	0.065	0.0525	2	0.0525	0.052	0.053
Phosphorous Total	mg/L	0.2185	2	0.2185	0.187	0.25	0.449	2	0.449	0.31	0.588
Aluminium Total	mg/L	1.73	2	1.73	1.28	2.18	4.01	2	4.01	1.76	6.26
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Barium Total	mg/L	0.03245	2	0.03245	0.0286	0.0363	0.0623	2	0.06225	0.0395	0.085
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0003	2	0.0003	0.0002	0.0004	0.0008	2	0.00075	0.0003	0.0012
Chromium Total	mg/L	0.0036	2	0.0036	0.0026	0.0046	0.0084	2	0.00835	0.0035	0.0132
Cobalt Total	mg/L	0.00155	2	0.00155	0.0011	0.002	0.0037	2	0.00365	0.0015	0.0058
Copper Total	mg/L	0.00595	2	0.00595	0.0042	0.0077	0.0147	2	0.0147	0.0059	0.0235
Iron Total	mg/L	2.86	2	2.86	1.97	3.75	6.985	2	6.985	2.87	11.1
Lead Total	mg/L	0.00125	2	0.00125	0.0011	0.0014	0.0038	2	0.0038	0.0013	0.0063
Manganese Total	mg/L	0.0855	2	0.0855	0.066	0.105	0.18	2	0.17995	0.0859	0.274
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.00095	2	0.00095	0.0008	0.0011	0.0015	2	0.00145	0.0012	0.0017
Nickel Total	mg/L	0.00465	2	0.00465	0.0041	0.0052	0.0091	2	0.00905	0.0042	0.0139
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0085	2	0.0085	0.007	0.01	0.0165	2	0.0165	0.0086	0.0244
Zinc Total	mg/L	0.0086	2	0.0086	0.0058	0.0114	0.0208	2	0.0208	0.0081	0.0335

Table A3.9. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1996.

Salmon River Water Quality Parameters		Jul-96					Aug-96				
		mean	n	median	min	max	mean	n	median	min	max
pH	pH units	NA	4	8.13	7.99	8.3	NA	2	8.215	8.18	8.25
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Specific Conductance	µsie/cm	344	4	329.5	278	439	452	2	452	448	456
Hardness	mg/L	167	4	158.5	137	214	218	2	218	206	230
Alkalinity	mg/L	151.75	4	148.5	128	182	193.5	2	193.5	191	196
Temperature	°C	17	4	16.25	15	20.5	15.5	2	15.5	15	16
Turbidity	NTU	5.85	4	5	1.4	12	1.325	2	1.325	1.25	1.4
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Chloride Dissolved	mg/L	3.335	4	3.195	2.34	4.61	4.45	2	4.45	3.9	5
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Sulphate Dissolved	mg/L	29.5	4	27.55	18.9	44	50	2	50	47	53
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Dissolved	mg/L	0.195	2	0.195	0.19	0.2	0.19	2	0.19	0.18	0.2
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Nitrite Total	mg/L	0.005	4	0.005	0.005	0.005	0.005	2	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.5738	4	0.0675	0.05	2.11	0.0505	2	0.0505	0.044	0.057
Phosphorous Total	mg/L	0.1738	4	0.1775	0.106	0.234	0.0775	2	0.0775	0.077	0.078
Aluminium Total	mg/L	0.813	4	0.8385	0.215	1.36	0.1765	2	0.1765	0.141	0.212
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Barium Total	mg/L	0.0307	4	0.0315	0.0265	0.0334	0.0316	2	0.0316	0.0308	0.0324
Bromide Dissolved	mg/L	0.05	4	0.05	0.05	0.05	0.05	2	0.05	0.05	0.05
Cadmium Total	mg/L	0.0002	4	0.0002	0.0001	0.0003	0.0001	2	0.0001	0.0001	0.0001
Chromium Total	mg/L	0.0019	4	0.00185	0.001	0.003	0.00035	2	0.00035	0.0003	0.0004
Cobalt Total	mg/L	0.0008	4	0.0008	0.0003	0.0012	0.0003	2	0.0003	0.0003	0.0003
Copper Total	mg/L	0.0034	4	0.0033	0.0019	0.0051	0.00155	2	0.00155	0.0014	0.0017
Iron Total	mg/L	1.2438	4	1.265	0.405	2.04	0.3265	2	0.3265	0.284	0.369
Lead Total	mg/L	0.0009	4	0.00085	0.0002	0.0017	0.00035	2	0.00035	0.0002	0.0005
Manganese Total	mg/L	0.0531	4	0.05215	0.0365	0.0714	0.0404	2	0.0404	0.037	0.0438
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0
Molybdenum Total	mg/L	0.0018	4	0.00175	0.0015	0.0021	0.0023	2	0.0023	0.0023	0.0023
Nickel Total	mg/L	0.0026	4	0.00255	0.0015	0.0038	0.0012	2	0.0012	0.0009	0.0015
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0
Vanadium Total	mg/L	0.0059	4	0.00595	0.0037	0.008	0.003	2	0.003	0.0027	0.0033
Zinc Total	mg/L	0.0046	4	0.00465	0.0013	0.0078	0.0012	2	0.0012	0.0009	0.0015

Table A3.9. Monthly water quality summary statistics for station BC08LE0004 on the Salmon River, 1996.

Salmon River Water Quality Parameters		Sep-96					Oct-96					Nov-96
		mean	n	median	min	max	mean	n	median	min	max	
pH	pH units	NA	2	8.255	8.24	8.27	NA	3	8.18	8.17	8.26	8.23
Nonfilterable Residues	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Specific Conductance	µsie/cm	436.5	2	436.5	425	448	434.333	3	439	420	444	374
Hardness	mg/L	212.5	2	212.5	203	222	209.333	3	210	208	210	185
Alkalinity	mg/L	180.5	2	180.5	172	189	177.667	3	179	173	181	161
Temperature	°C	9.5	2	9.5	8	11	6	3	8	2	8	5
Turbidity	NTU	2.05	2	2.05	1.4	2.7	1.16	3	1	0.98	1.5	2.8
Calcium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Chloride Dissolved	mg/L	4.75	2	4.75	4.3	5.2	4.34667	3	4.4	4.24	4.4	3.78
Fluoride Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Sulphate Dissolved	mg/L	47	2	47	44	50	42.7333	3	42.7	42.5	43	36.1
Sodium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Potassium Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrogen Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrate and Nitrite Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrogen Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Ammonia Dissolved	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Nitrite Total	mg/L	0.005	2	0.005	0.005	0.005	0.005	3	0.005	0.005	0.005	0.005
Nitrate Dissolved	mg/L	0.052	2	0.052	0.047	0.057	0.05	3	0.056	0.031	0.063	0.123
Phosphorous Total	mg/L	0.0995	2	0.0995	0.094	0.105	0.06533	3	0.063	0.059	0.074	0.124
Aluminium Total	mg/L	0.181	2	0.181	0.152	0.21	0.08367	3	0.074	0.07	0.107	0.256
Arsenic Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Barium Total	mg/L	0.02825	2	0.02825	0.026	0.0304	0.02533	3	0.0252	0.025	0.0257	0.0244
Bromide Dissolved	mg/L	0.05	2	0.05	0.05	0.05	0.05	3	0.05	0.05	0.05	0.05
Cadmium Total	mg/L	0.0001	2	0.0001	1E-04	0.0001	0.0001	3	0.0001	1E-04	0.0001	0.0001
Chromium Total	mg/L	0.00045	2	0.00045	4E-04	0.0005	0.0003	3	0.0003	2E-04	0.0004	0.0008
Cobalt Total	mg/L	0.00025	2	0.00025	2E-04	0.0003	0.00017	3	0.0002	1E-04	0.0002	0.0003
Copper Total	mg/L	0.0016	2	0.0016	0.001	0.0018	0.00127	3	0.0011	0.001	0.0017	0.0021
Iron Total	mg/L	0.397	2	0.397	0.357	0.437	0.21633	3	0.206	0.202	0.241	0.479
Lead Total	mg/L	0.0002	2	0.0002	2E-04	0.0002	0.00023	3	0.0002	2E-04	0.0003	0.0006
Manganese Total	mg/L	0.0458	2	0.0458	0.045	0.0467	0.03643	3	0.0366	0.036	0.0372	0.0463
Mercury Total	ug/L	NR	0	NR	0	0	NR	0	NR	0	0	
Molybdneum Total	mg/L	0.00205	2	0.00205	0.002	0.0022	0.00167	3	0.0019	0.001	0.0019	0.0016
Nickel Total	mg/L	0.00095	2	0.00095	9E-04	0.001	0.00097	3	0.0009	8E-04	0.0012	0.0012
Thallium Total	mg/L	NR	0	NR	0	0	NR	0	NR	0	0	
Vanadium Total	mg/L	0.0029	2	0.0029	0.003	0.0029	0.00227	3	0.0022	0.002	0.0025	0.0029
Zinc Total	mg/L	0.00135	2	0.00135	0.001	0.0016	0.00193	3	0.0016	0.002	0.0027	0.0019

Appendix IV

Spatial Trends in Salmon River Water Quality

Spatial Trends in Salmon River Water Quality

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Pre-objective water quality monitoring was conducted at fourteen sites on the Salmon River during freshet (May) and summer low flow (August) in 1989. The results from 5 weekly sampling runs in each period were averaged for each site to graphically show trends in water quality. The means for Non-filterable Residue, Faecal Coliform Bacteria, Total Phosphorus and Dissolved Phosphorus were plotted from the headwaters to the mouth of the Salmon River. Trends for each parameter were noted, along with possible reasons for increases or decreases in concentration in river water quality. Also presented is a major low-level melt event on February 25, 1986. This graph shows the major increase in nutrients as a result of agricultural runoff in the Westwold area. Major areas of impact are from Westwold to Falkland and from Silver Creek to the mouth. This type of monitoring could be repeated to observe improvements in water quality as a result of river restoration work in the watershed.

Table A4.1. Descriptions of sampling stations in the Salmon River watershed.

Station Number Appeared on the Graphs	EMS ID	Station Name	Station Description	Latitude	Longitude
1	E206084	Salmon River U/S McInnis Creek	Salmon River at first farm bridge upstream of confluence with McInnis Creek	50.2844	119.9850
2	E206085	McInnis Creek	McInnis Creek at bridge near farm access off of Douglas Lake Road	50.2992	119.9878
3	E206093	Salmon River D/S of Cattle Culvert	Salmon River at Farm bridge 30m below feedlot with culvert for cattle access to river, near highway boundary	50.3014	119.9875
4	E207853	Salmon River at Douglas Agriculture	Follow Salmon Lake from Westwold, turn east on Crown's main Salmon River logging road, sample at gate about 1km in	50.3184	119.9645
5	E206094	Salmon River U/S of Weyman Creek	Salmon River 5m upstream of first Douglas Lake Road Bridge, above Weyman Creek	50.3533	119.2789
6	E206086	Salmon River U/S Adelphi Creek	Salmon River 50m upstream of Adelphi Creek, access through farm at 8km on Douglas Lake Road	50.4078	119.8119
7	E207854	Salmon River at Reappearance	Follow highway 97 east from Westwold about 2km past bridge, turn north on farm road to river	50.4708	119.6987
8	E206087	Salmon River U/S Falkland	Salmon River upstream of highway 97 bridge west of Falkland	50.4892	119.6000
9	E206088	Bolean Creek	Bolean Creek downstream of CNR bridge above confluence with Salmon River at Falkland	50.4989	119.5594
10	E207855	Salmon River D/S Falkland FRBC	Follow highway 97 about 2km east of Falkland, to ? road turn south over traCreeks to ? residence walk to river	50.4861	119.5381
11	E206089	Salmon River U/S Glenemma	Salmon River 10m upstream of highway 97 bridge above Glenemma	50.4561	119.3728
12	E206090	Salmon River U/S Silver Creek	Salmon River 10m upstream of road bridge above community of Silver Creek	50.5714	119.3525
13	E206091	Salmon River D/S Silver Creek FRBC	Salmon River 10m upstream of road bridge below the community of Silver Creek	50.6083	119.3642
14	E206092	Salmon River at Hwy. #1 Bridge FRBC	Salmon River 5m upstream of Salmon Valley Road bridge near Highway #1	50.6929	119.3298

Figure A4.1. Average nonfilterable residue (NFR) concentrations in the Salmon River during May, 1989.

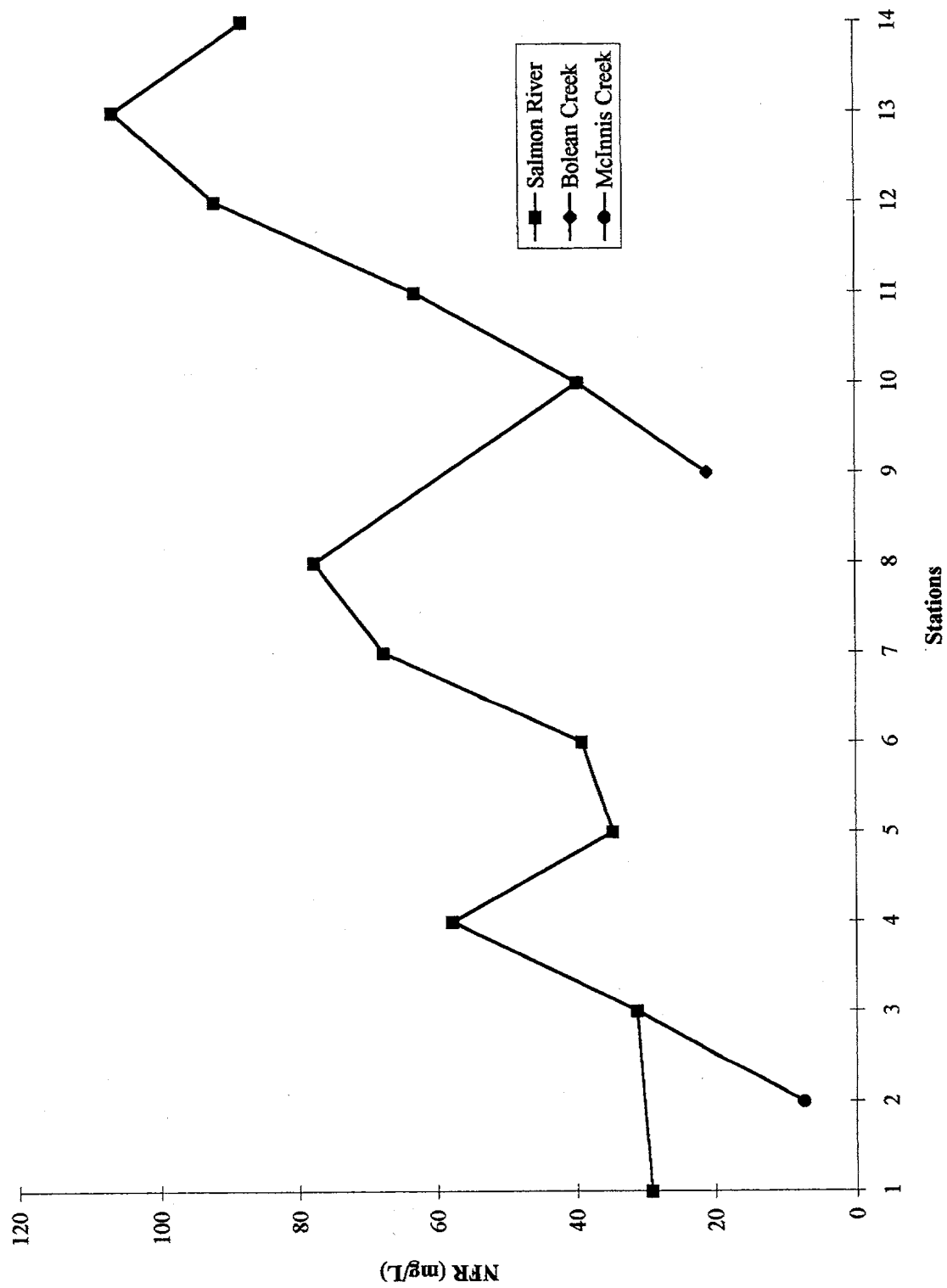


Figure A4.2. Average faecal coliform concentrations in the Salmon River during May, 1989.

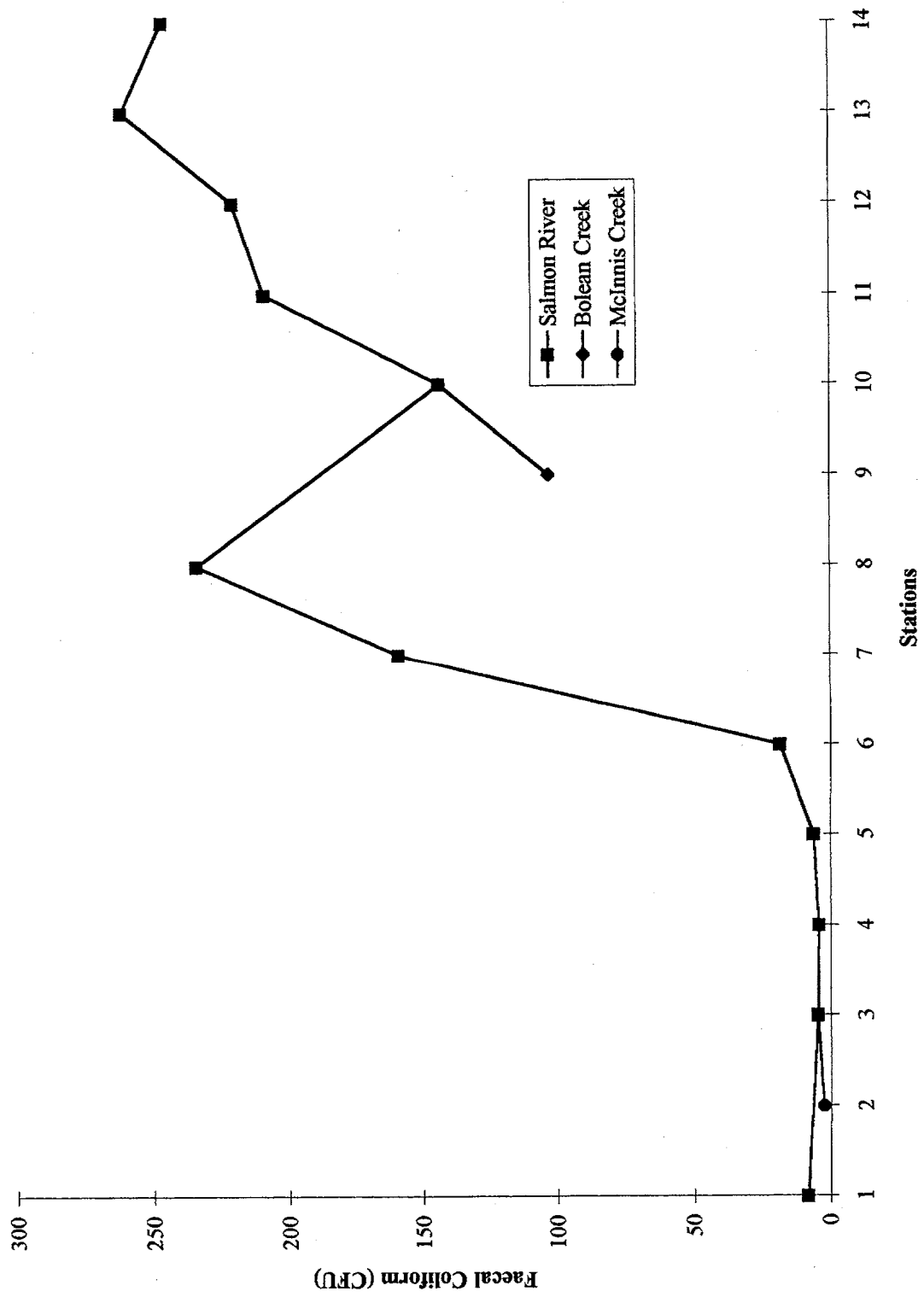


Figure A4.3. Average ortho-phosphorus concentrations in the Salmon River during May, 1989.

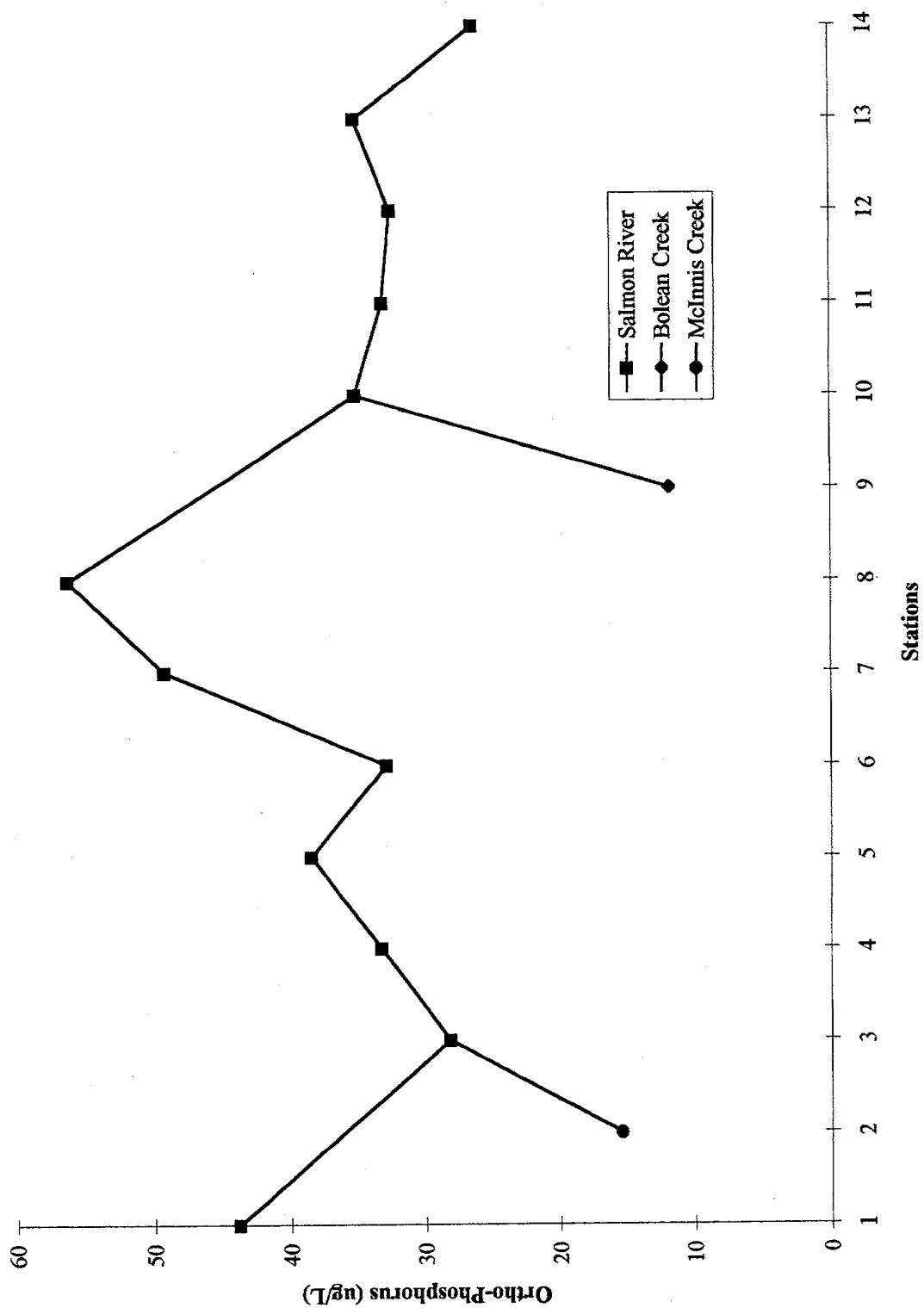


Figure A4.4. Average dissolved phosphorus concentrations in the Salmon River during May, 1989.

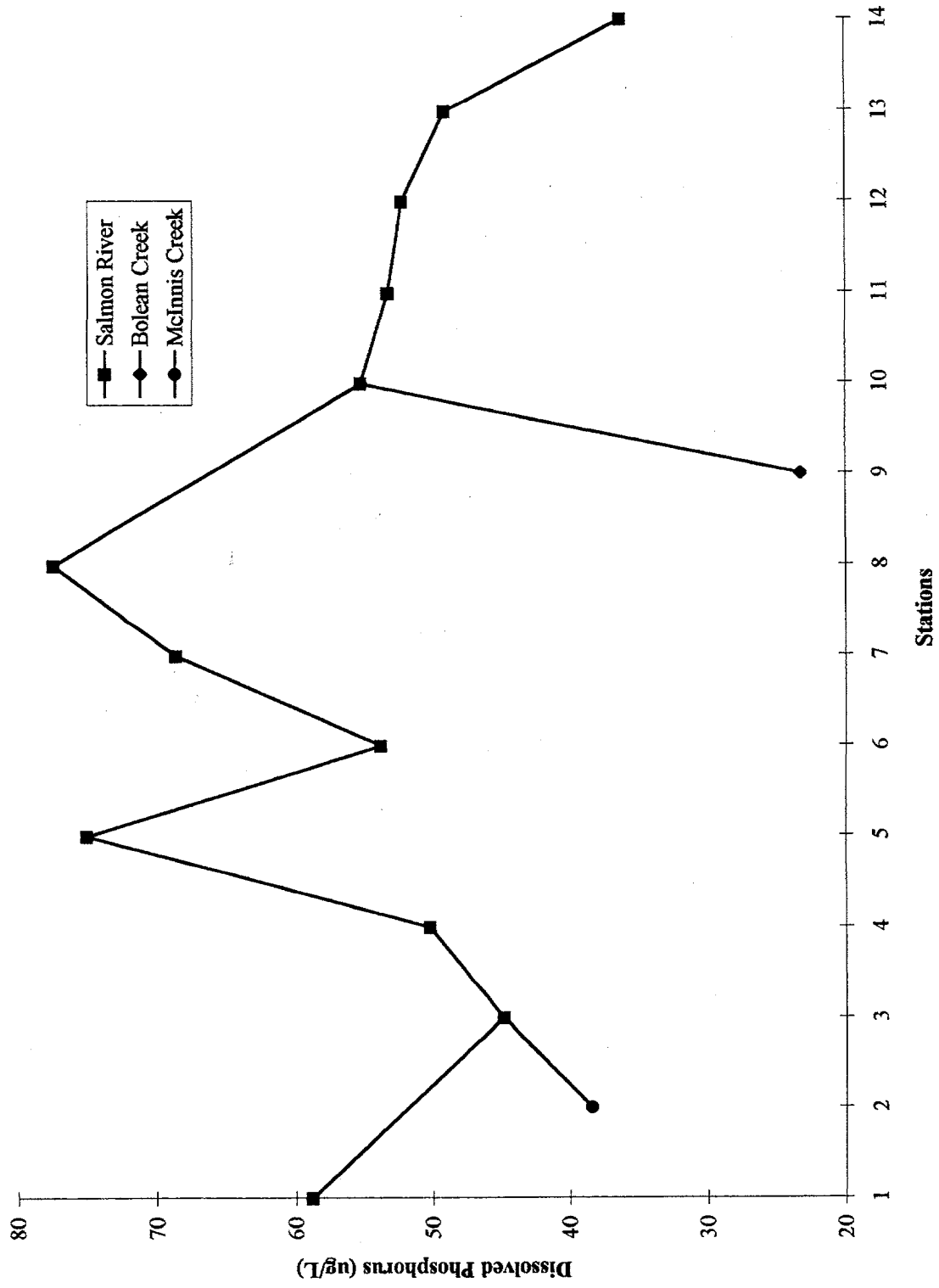


Figure A4.5. Average total phosphorus concentrations in the Salmon River during May, 1989.

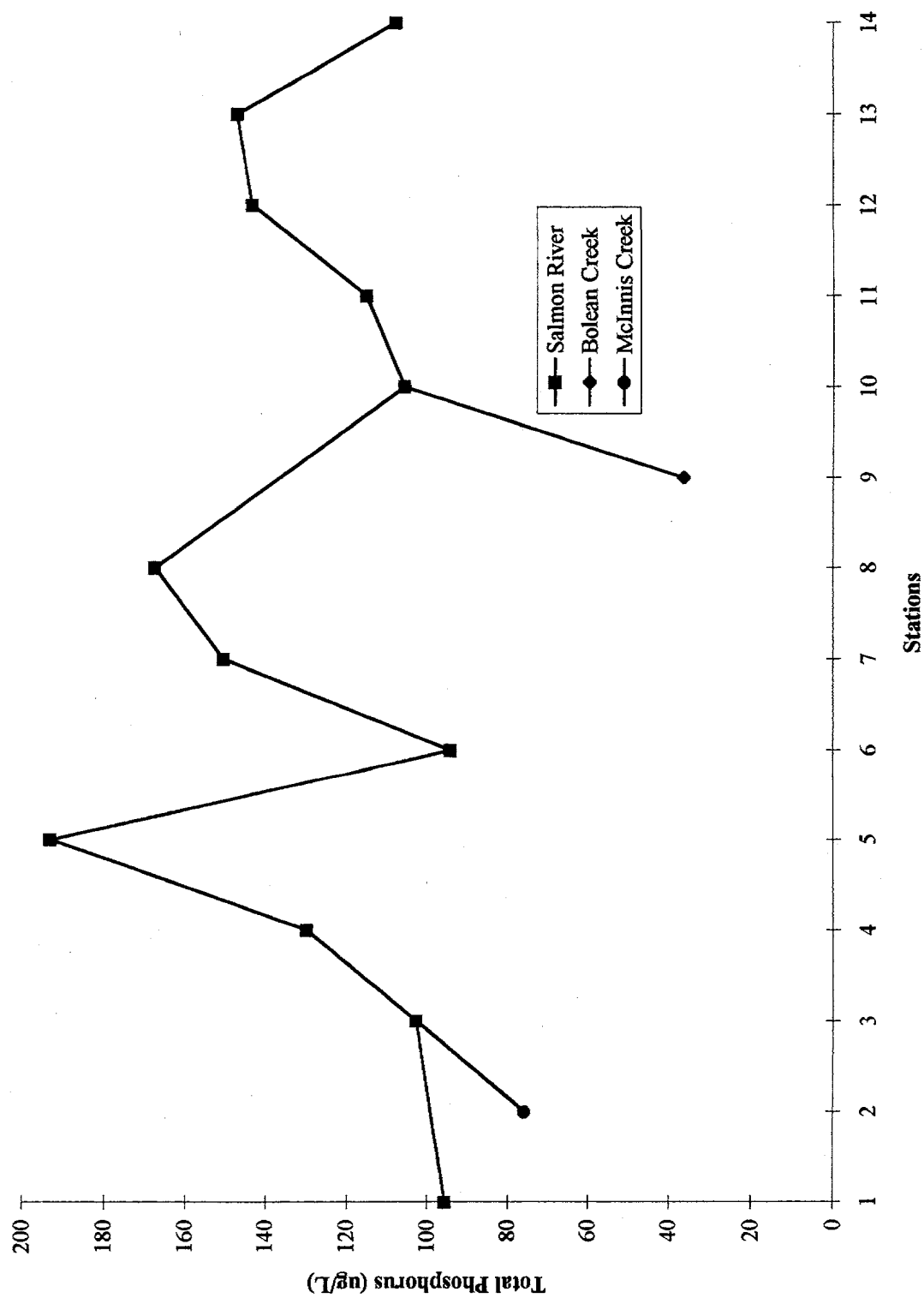


Figure A4.6. Average nonfilterable residue (NFR) concentrations in the Salmon River during August, 1989.

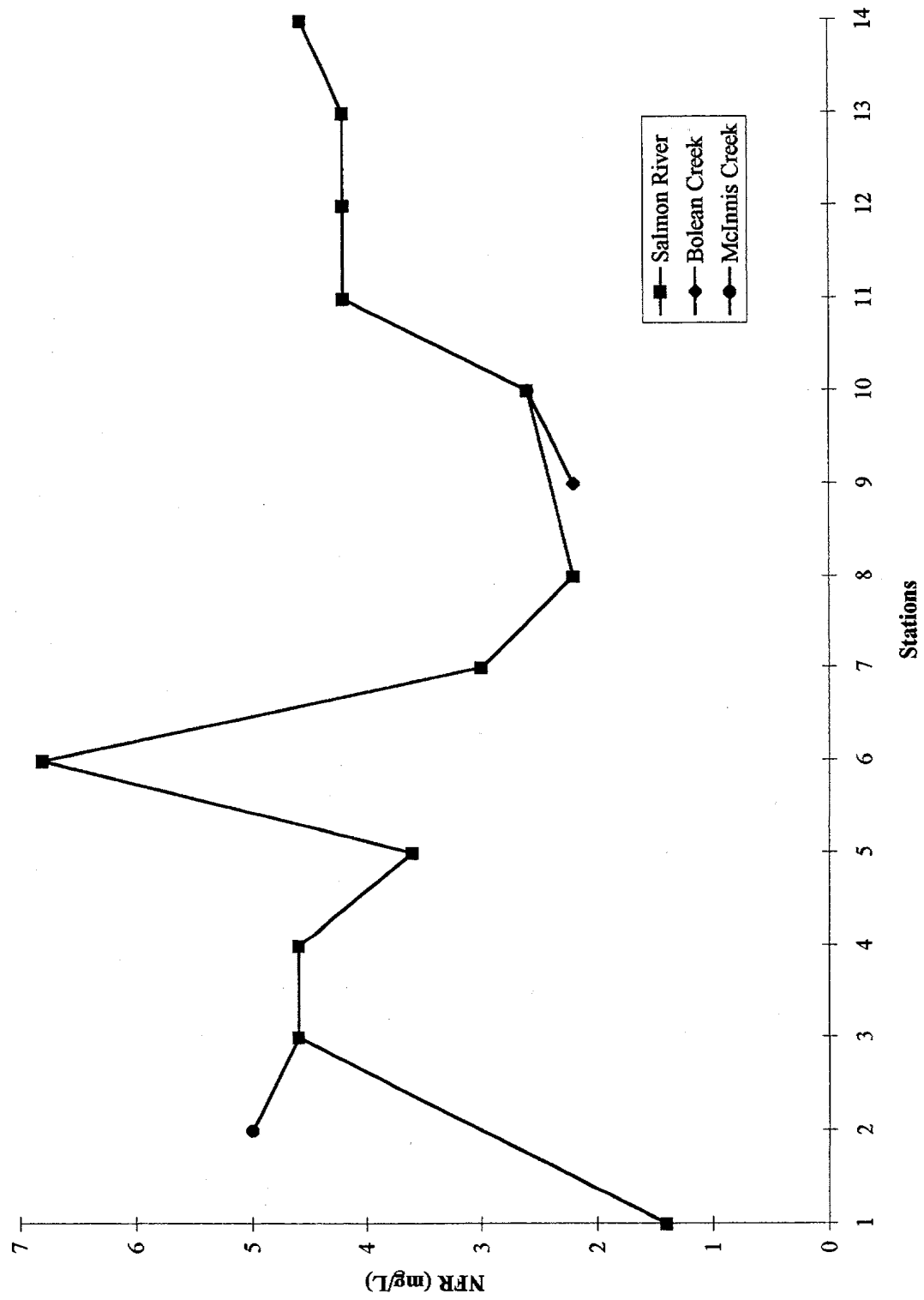


Figure A4.7. Average faecal coliform concentrations in the Salmon River during August, 1989.

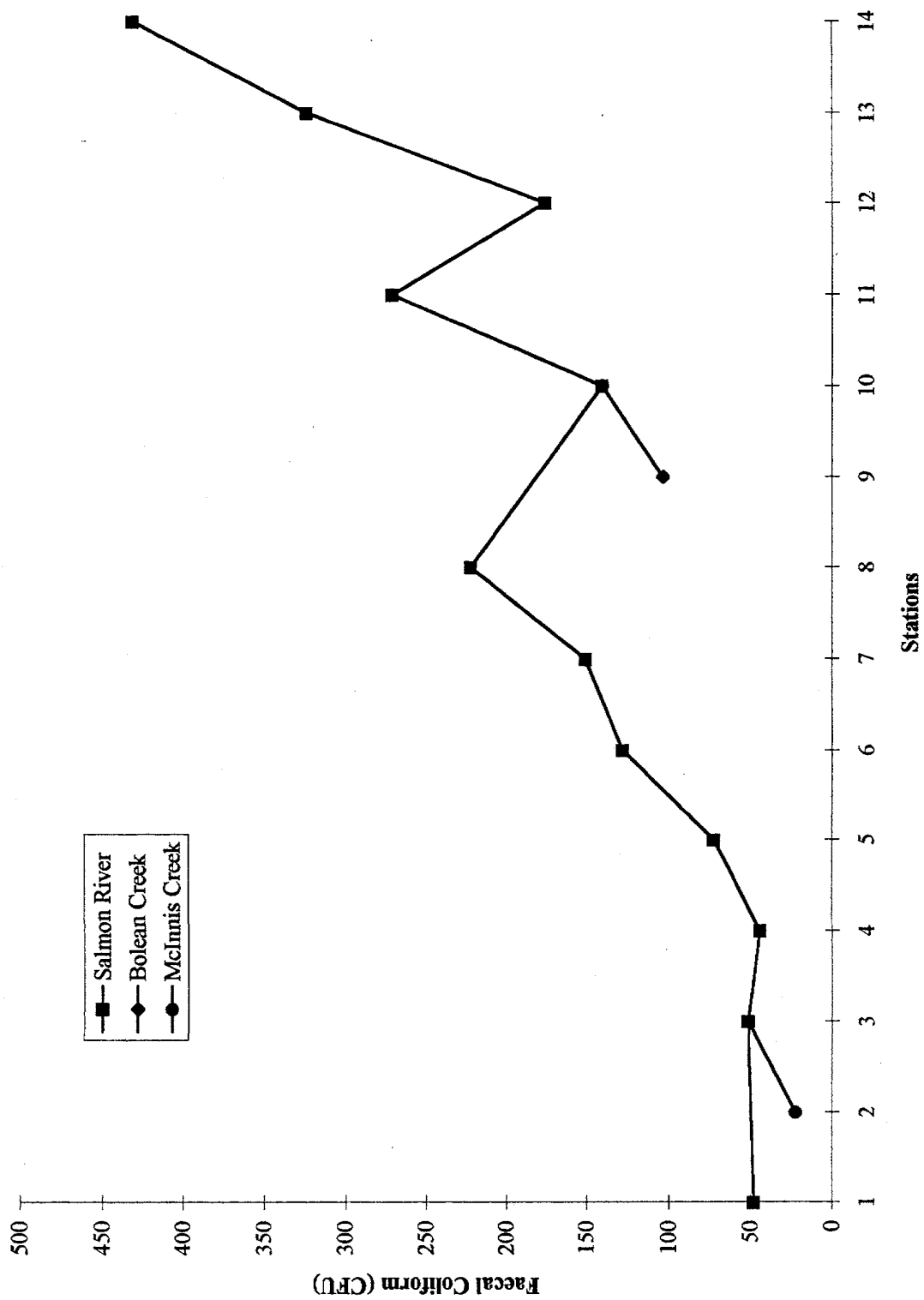


Figure A4.8. Average ortho-phosphorus concentrations in the Salmon River during August, 1989.

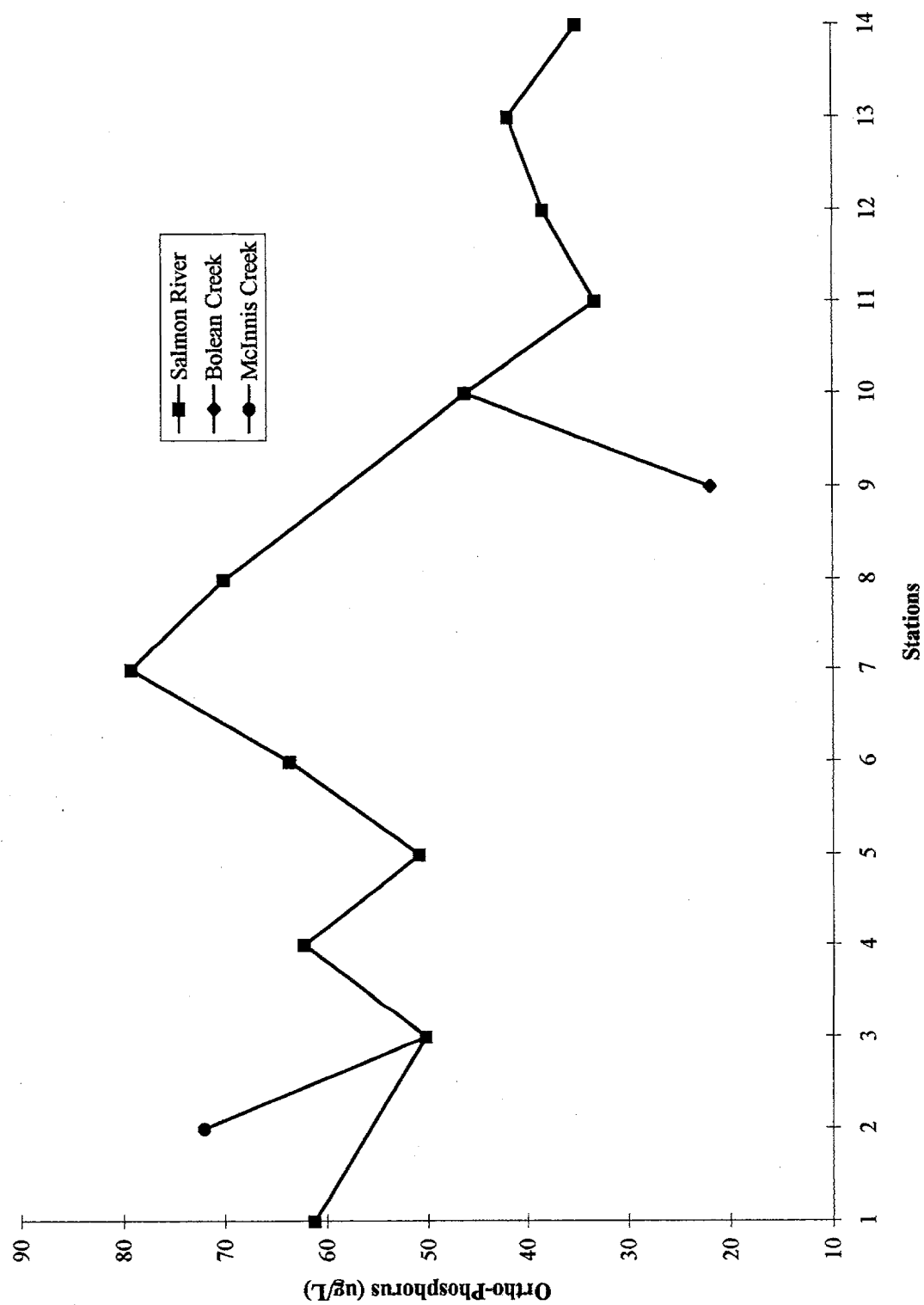


Figure A4.9. Average dissolved phosphorus concentrations in the Salmon River during August, 1989.

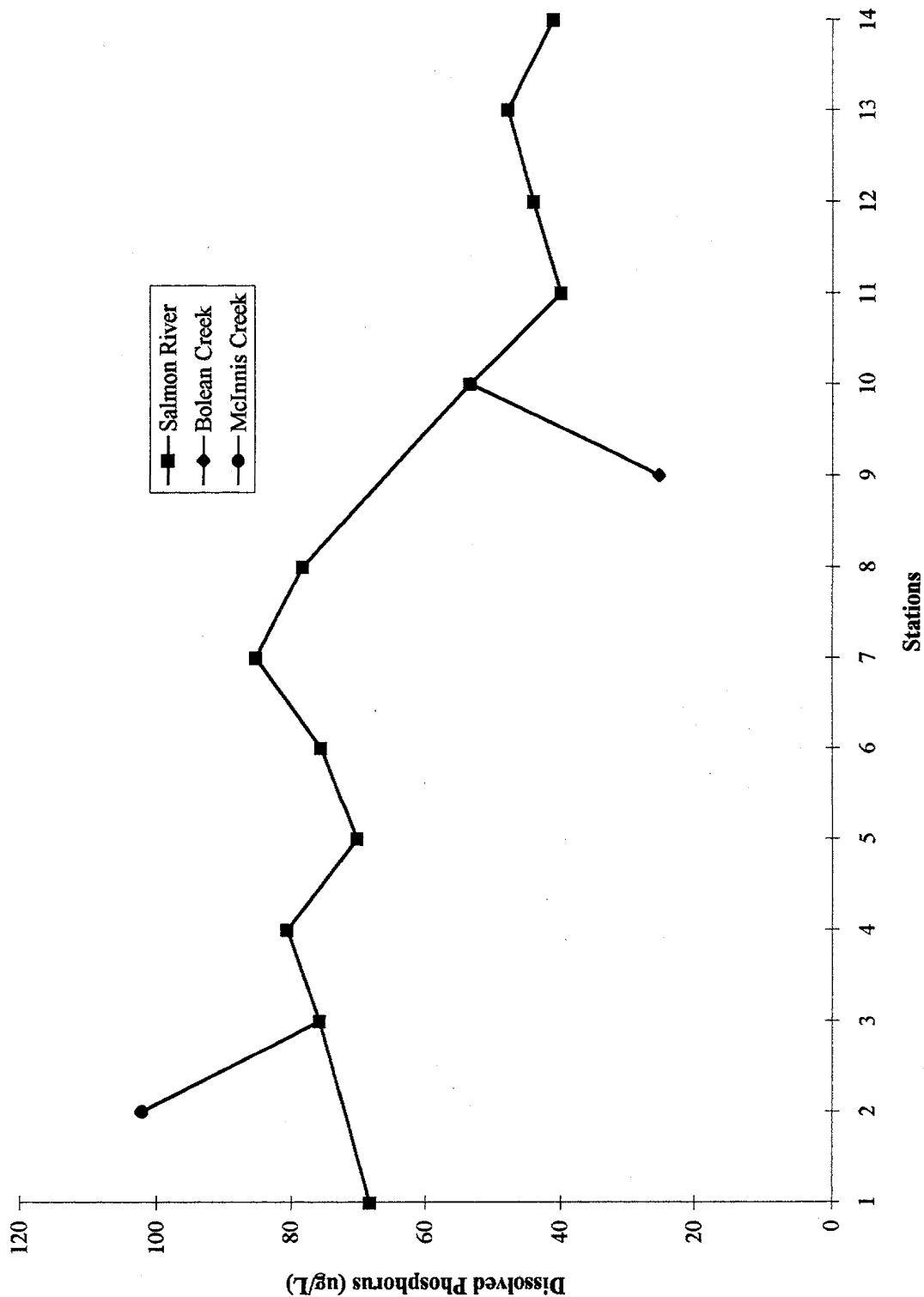


Figure A4.10. Average total phosphorus concentrations in the Salmon River during August, 1989.

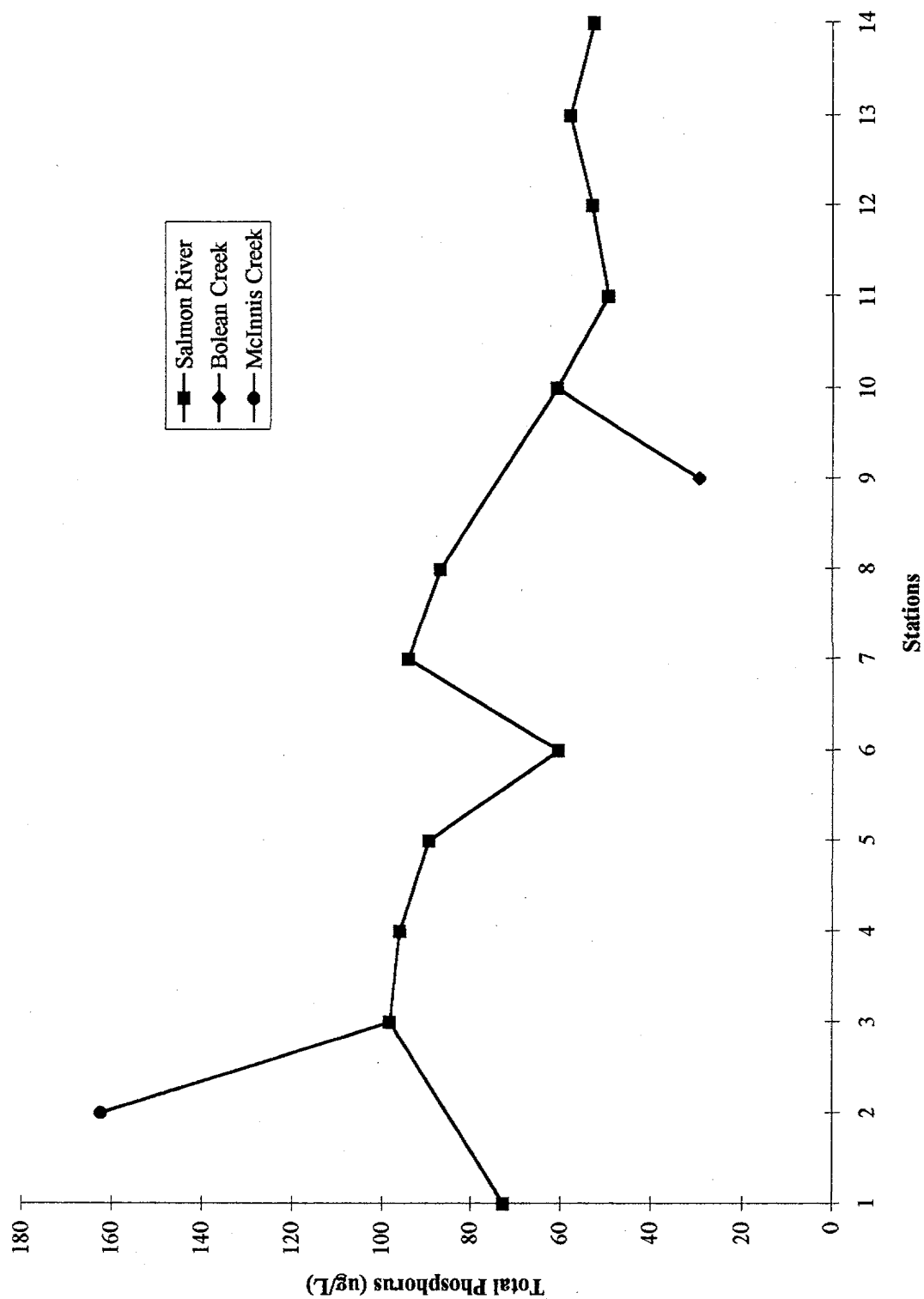


Figure A4.11. Total phosphorus concentrations in the Salmon River on February 25, 1986.

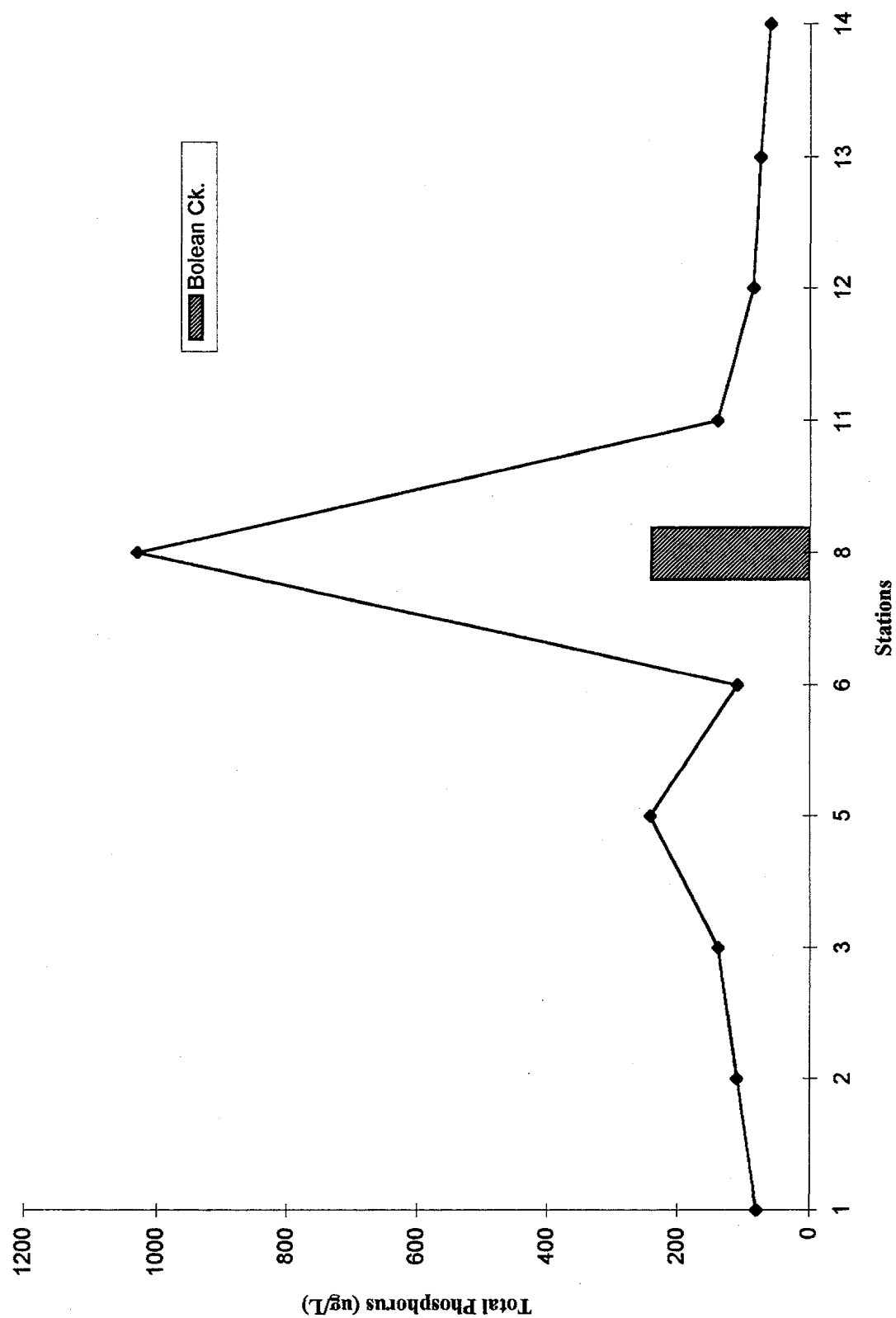


Figure A4.12. Total nitrogen concentrations in the Salmon River on February 25, 1986.

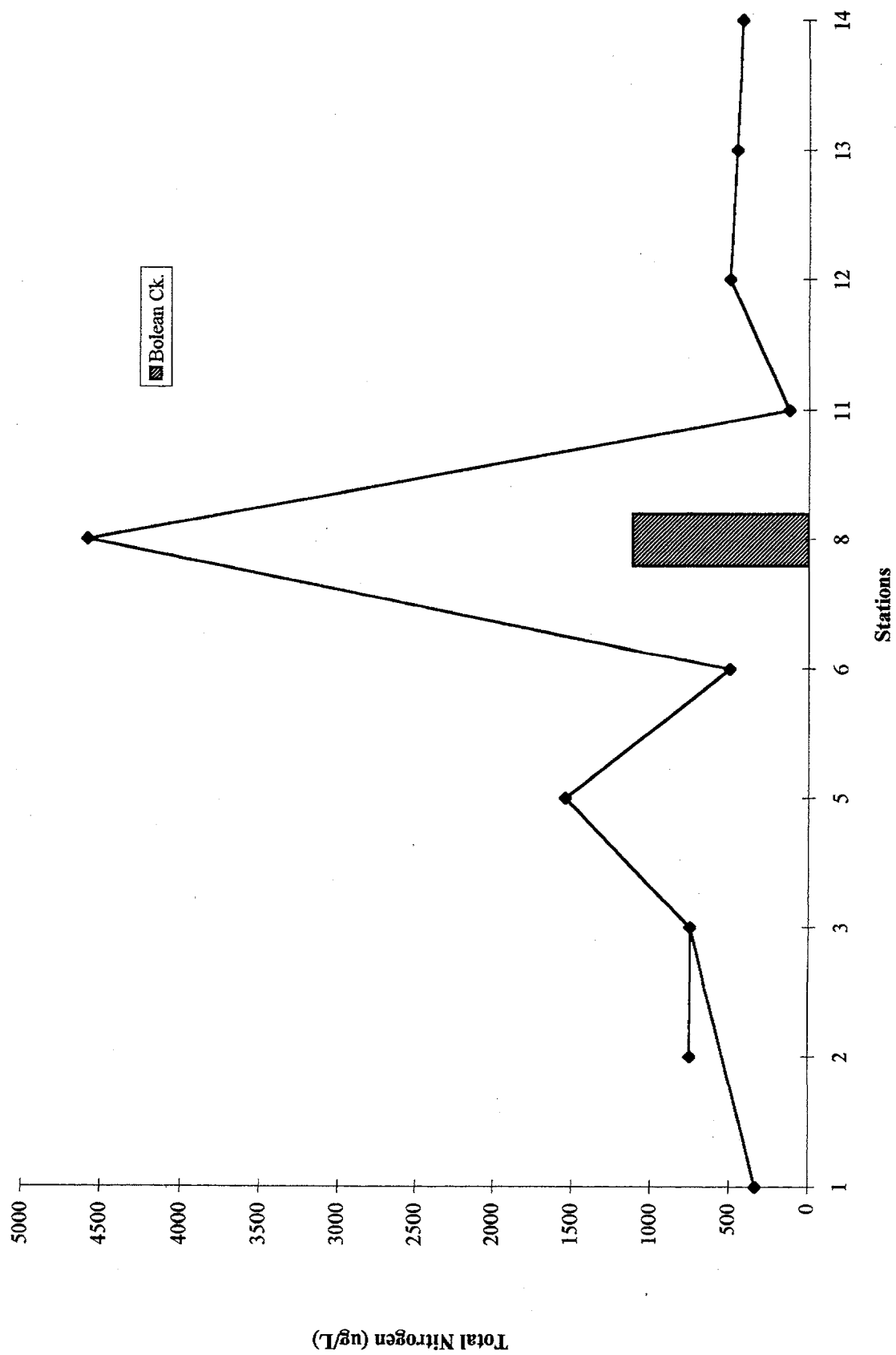


Figure A4.13. Levels of nonfilterable residue (NFR) and conductance in the Salmon River during spring, 1995.

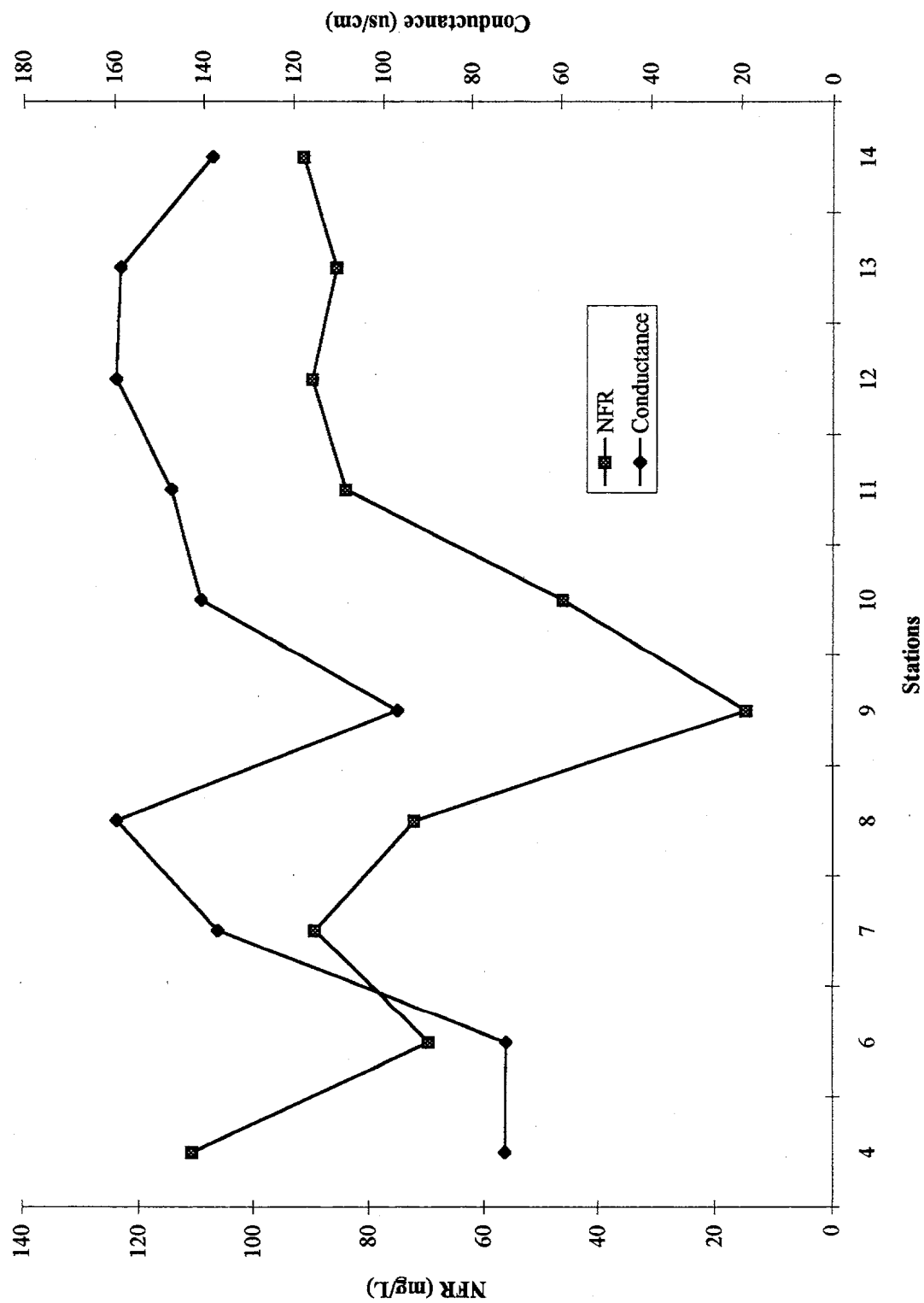


Figure A4.14. Concentrations of faecal coliforms in the Salmon River during spring, 1995.

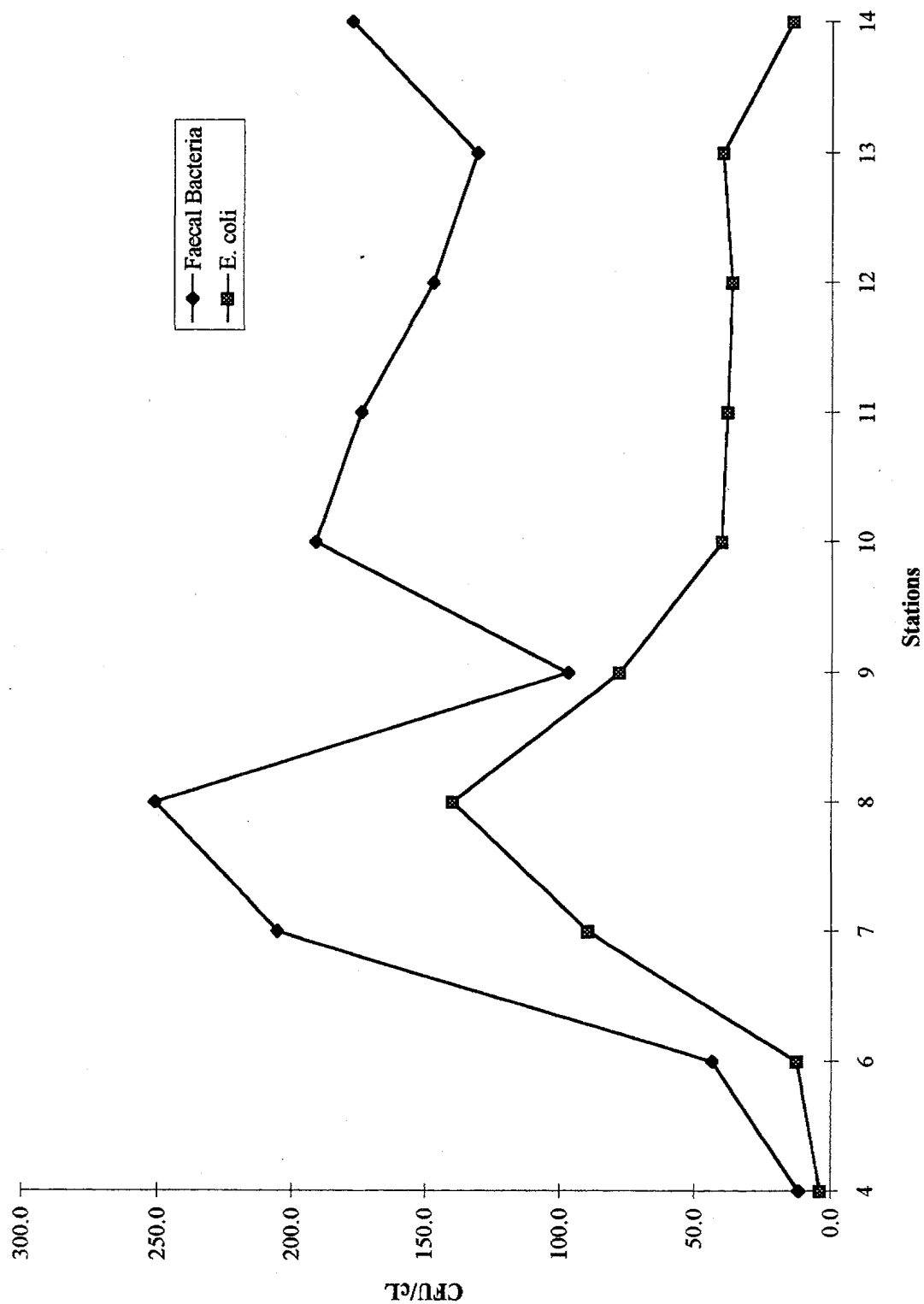


Figure A4.15. Concentrations of total phosphorus and total nitrogen in the Salmon River during spring, 1995.

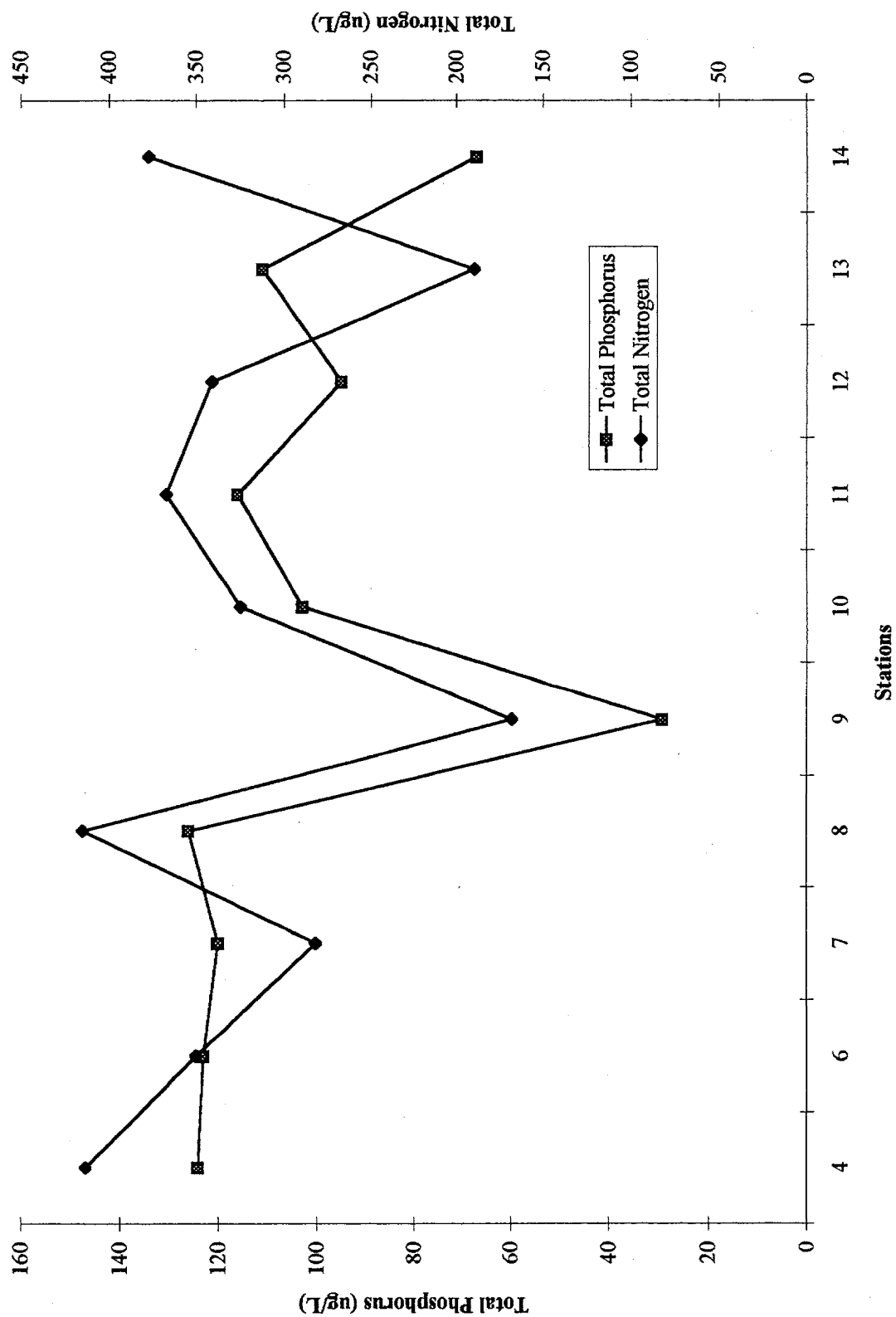


Figure A4.16. Concentrations of total phosphorus and dissolved phosphorus in the Salmon River during spring, 1995.

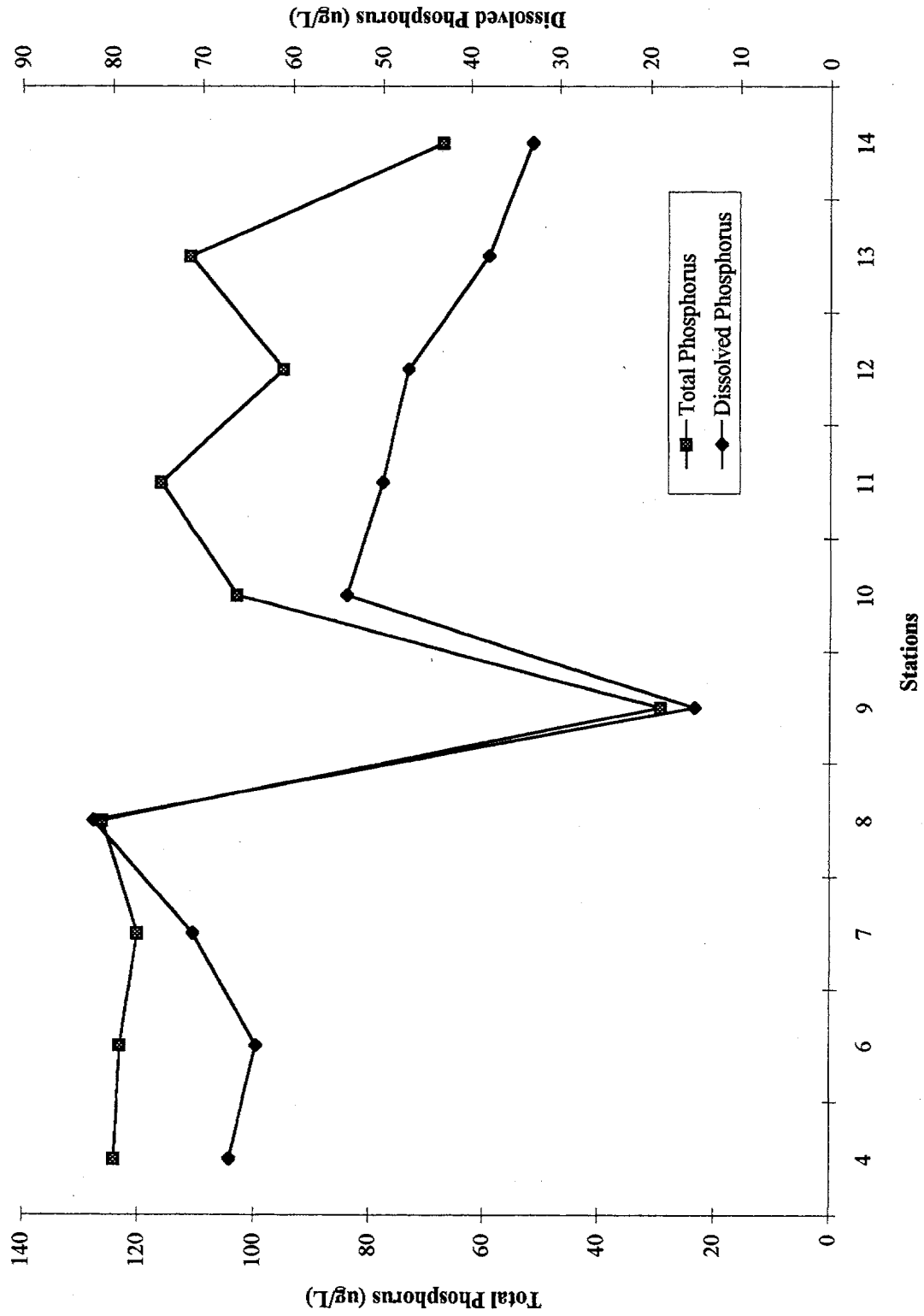


Figure A4.17. Concentrations of total phosphorus (TP) and dissolved phosphorus (DP) in the Salmon River during spring and summer, 1995.

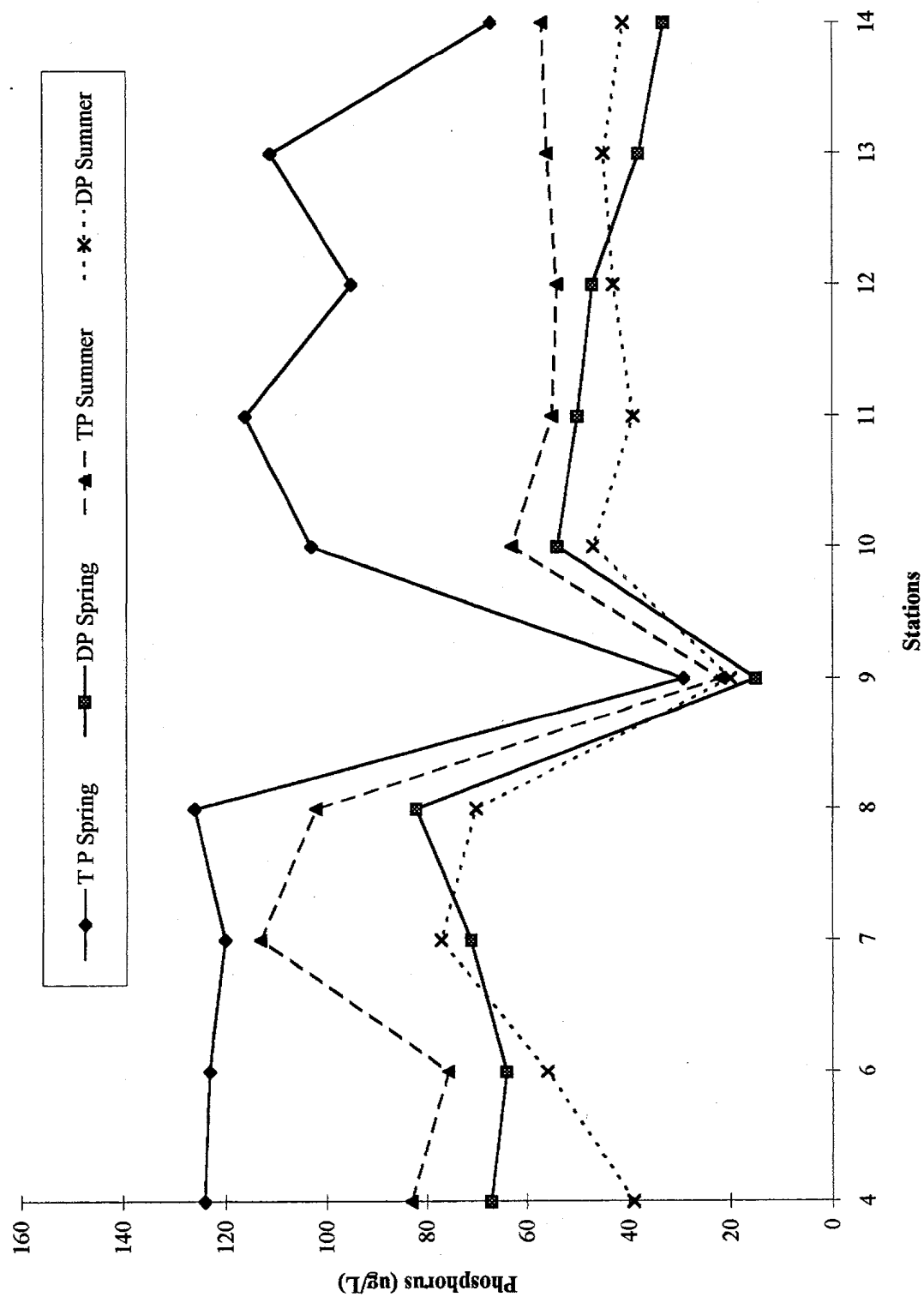


Figure A4.18. Levels of turbidity and conductance in the Salmon River during summer, 1995.

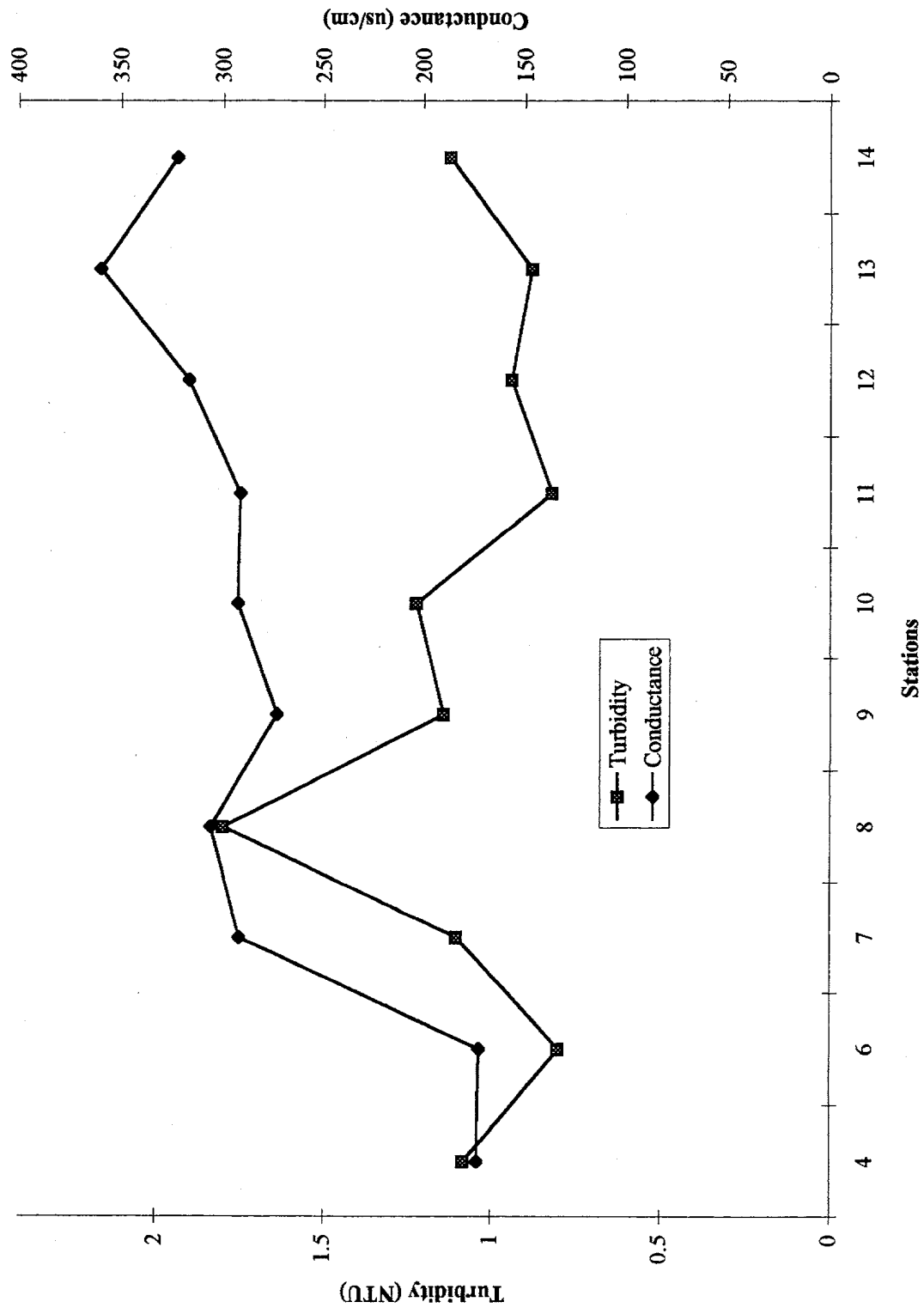


Figure A4.19. Concentrations of faecal coliforms in the Salmon River during summer, 1995.

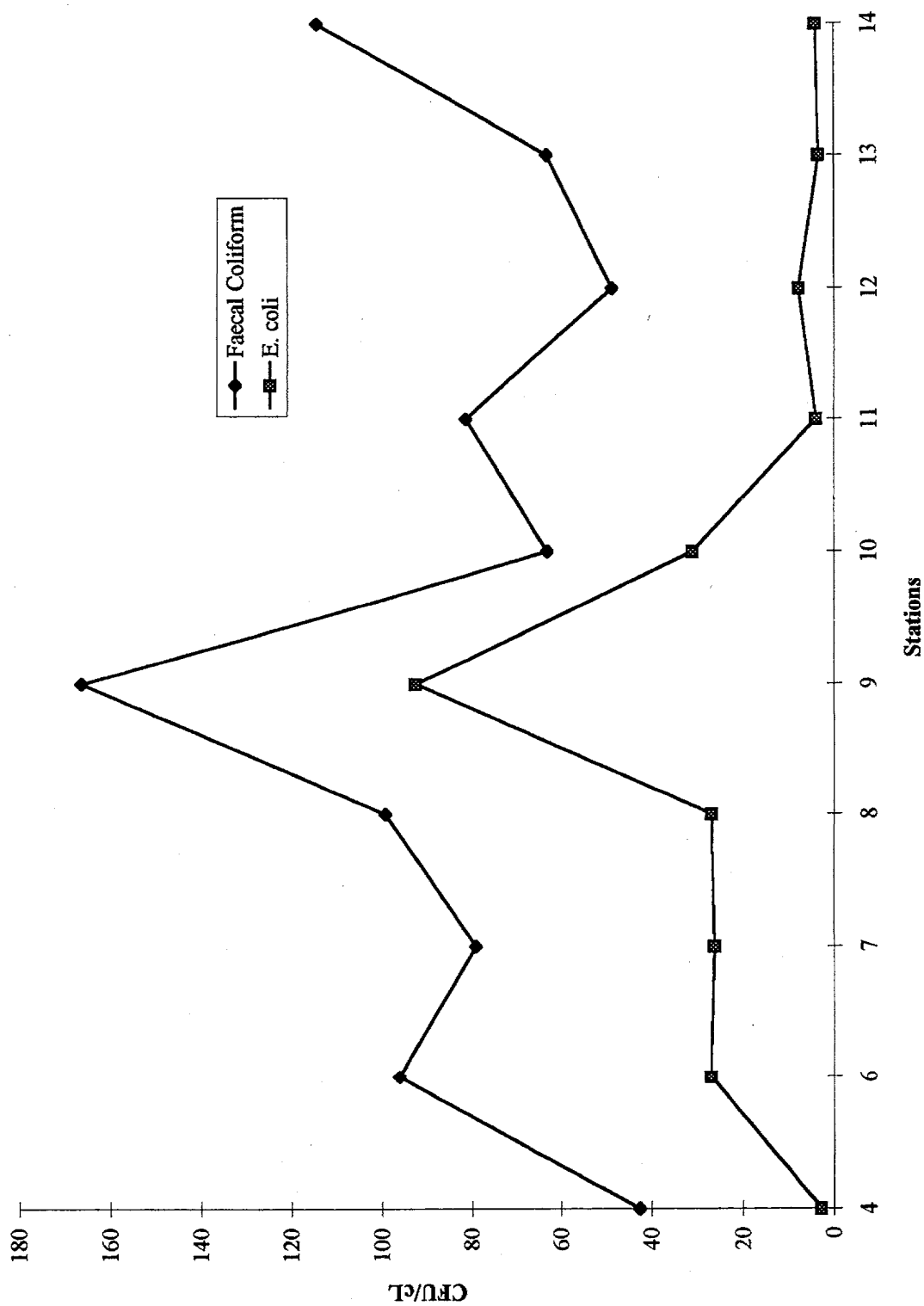


Figure A4.20. Concentrations of total phosphorus and total nitrogen in the Salmon River during summer, 1995.

