APPENDIX C

CHEMICAL LIMNOLOGY DATA FOR THE OKANAGAN MAIN VALLEY LAKES

C-l Data Listing of Nutrient Analyses for the Okanagan Main Valley Lakes, 1971

C-2 Data Listing of the Major Cation Species for the Okanagan Main Valley Lakes, 1971

C-3 Data Listing of the Major Anion Species for the Okanagan Main Valley Lakes

APPENDIX C-1

DATA LISTING OF NUTRIENT ANALYSES FOR THE OKANAGAN MAIN VALLEY LAKES. 1971

(Parts Per Million)

WOOD LAKE

APRIL						JUNE						AUGUST						OCTOBER					
STATION 1																							
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
1	<0.01	0.57	0.08	0.26	4.9	1	<0.01	1.05	0.01	0.20	3.8	1	<0.01	<0.01	<0.01	ND	4.8	1	<0.01	0.38	<0.005	0.07	5.1
5	<0.01	0.65	0.08	0.26	4.8	5	<0.01	1.05	<0.01	0.14	3.8	5	<0.01	0.02	<0.01	ND	4.8	10	<0.01	0.43	<0.005	0.06	5.1
10	0.03	0.57	0.07	0.26	5.0	10	<0.01	0.82	<0.01	0.15	3.9	10	<0.01	0.13	<0.01	ND	4.9	15	<0.01	0.39	0.04	0.08	5.6
22	0.05	0.54	0.08	0.28	5.0	15	<0.01	0.80	0.19	0.38	4.2	15	<0.01	0.38	<0.01	0.28	5.1	20	0.01	0.74	0.41	0.55	6.1
						20	0.01	2.03	0.14	0.29	4.3	20	0.22	1.18	0.04	0.12	5.5	26	0.01	3.82	0.61	0.76	6.4
						25	0.02	0.77	0.53	0.62	5.0	28	0.08	0.66	0.29	0.49	5.8						
STATION 2																							
1	0.03	0.46	0.08	0.28	4.8	1	<0.01	0.57	0.01	0.24	3.9	1	<0.01	0.29	<0.01	0.05	4.9	1	<0.01	0.51	<0.005	0.06	5.1
5	0.03	0.52	0.07	0.29	4.8	5	<0.01	0.56	<0.01	0.11	4.0	5	<0.01	0.26	<0.01	0.06	5.0	10	<0.01	0.56	<0.005	0.06	5.1
10	0.01	0.54	0.09	0.29	4.9	10	<0.01	0.36	0.02	0.16	4.1	10	0.21	0.41	<0.01	0.06	5.0	15	<0.01	0.34	0.008	0.05	5.4
25	0.04	0.54	0.09	0.29	5.0	15	<0.01	0.36	0.05	0.25	4.3	15	<0.01	0.43	<0.01	0.14	5.3	20	<0.01	0.51	0.29	0.36	5.9
28	0.05	0.64	0.11	0.31	5.3	20	<0.01	0.23	0.18	0.25	4.6	25	0.01	0.66	0.58	0.70	6.2	29	0.02	1.11	0.62	0.76	6.4
						28	0.02	1.05	0.61	0.72	5.0	30	0.02	0.83	0.62	0.75	6.3						
STATION 4																							
1	<0.01	0.82	0.08	0.31	5.1	1	<0.01	0.52	0.02	0.26	3.8	1	<0.01	0.04	<0.01	0.04	4.8	1	<0.01	0.38	<0.005	0.07	5.2
5	0.01	0.64	0.07	0.29	5.1	5	<0.01	0.39	0.01	0.00	3.9	5	<0.01	0.16	<0.01	0.06	4.9	10	<0.01	0.38	<0.005	0.06	5.2
10	0.02	0.59	0.08	0.29	5.2	10	0.01	0.61	0.01	0.12	4.0	10	0.01	0.47	<0.01	0.15	4.9	15	<0.01	0.25	<0.005	0.05	5.2
15	0.04	0.47	0.10	3.8	5.4	15	0.02	1.00	0.10	0.25	4.5	17	0.10	0.93	<0.01	0.12	5.5	18	<0.01	0.28	<0.005	0.20	5.6

SKAHA LAKE

APRIL						JUNE						AUGUST						OCTOBER					
STATION 1																							
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
1	<0.01	0.13	0.02	0.05	0.3	1	0.02	0.20	0.19	0.26	2.4	1	<0.01	0.34	<0.01	ND	3.0	1	<0.01	0.38	<0.005	0.04	2.8
5	<0.01	0.16	0.01	0.05	0.2	5	<0.01	0.20	0.01	0.06	2.3	5	<0.01	0.18	<0.01	ND	3.0	5	<0.01	0.30	<0.005	0.04	2.8
10	<0.01	0.21	0.01	0.06	0.4	10	<0.01	0.26	0.02	0.07	2.3	10	<0.01	<0.01	0.01	ND	3.0	10	0.01	0.16	<0.005	0.04	2.8
STATION 2																							
1	<0.01	0.23	0.01	0.05	0.3	1	<0.01	0.33	0.29	0.38	2.6	1	<0.01	<0.01	<0.01	ND	2.8	1	<0.01	0.43	<0.005	0.06	2.8
5	<0.01	0.13	0.01	0.09	0.4	5	<0.01	0.30	0.02	0.09	2.5	5	<0.01	<0.01	<0.01	ND	2.7	10	<0.01	0.36	<0.005	0.05	2.7
10	<0.01	0.20	0.01	0.05	0.4	10	<0.01	0.30	0.02	0.07	2.3	15	0.03	<0.01	0.01	ND	2.1	20	0.09	0.18	0.08	0.09	2.0
25	<0.01	0.16	0.01	0.07	0.3	15	<0.02	0.34	0.03	0.07	1.0	30	0.05	0.23	0.02	ND	1.4	30	0.09	0.16	0.10	0.11	1.5
47	0.01	0.16	0.02	0.07	0.3	20	<0.01	0.34	0.03	0.07	0.6	48	0.06	0.08	0.04	ND	1.4	48	0.17	0.16	0.21	0.22	2.1
						30	<0.01	0.21	0.03	ND	0.4												
						44	0.01	0.38	0.07	0.13	0.5												
STATION 4																							
1	<0.01	0.38	0.01	0.05	0.3	1	0.01	0.10	0.20	0.29	2.3	1	<0.01	0.13	0.25	ND	2.7	1	<0.01	0.46	<0.005	0.06	2.8
5	<0.01	0.02	0.01	0.05	0.2	5	<0.01	0.20	0.01	0.08	2.4	5	0.01	0.33	<0.01	ND	2.7	10	<0.01	0.20	<0.005	0.04	2.8
10	<0.01	0.26	0.02	0.05	0.2	10	0.01	0.21	0.01	0.07	2.6	15	0.05	0.11	0.03	ND	2.0	20	0.07	1.31	0.09	0.10	2.1
25	<0.01	0.20	0.02	0.08	0.2	15	0.01	0.13	0.03	0.07	1.3	30	0.12	0.38	0.15	ND	1.4	30	0.14	0.07	0.16	0.17	2.1
48	<0.01	0.28	0.02	0.07	0.3	20	0.01	0.20	0.04	0.07	0.8	48	0.06	0.11	0.05	ND	1.8	44	0.13	0.10	0.21	0.24	2.3
						30	0.01	0.07	0.06	0.10	0.6												
						44	0.01	0.59	0.07	0.11	0.6												
STATION 6																							
1	<0.01	0.28	0.02	0.05	0.2	1	<0.01	<0.01	0.14	0.21	2.3	1	<0.01	0.05	0.12	ND	2.6	1	<0.01	0.75	<0.005	0.10	2.8
5	<0.01	0.28	0.02	0.07	0.2	5	<0.01	0.13	0.01	0.06	2.3	5	<0.01	0.20	0.05	0.11	2.6	15	<0.01	0.16	<0.005	0.04	2.8
10	<0.01	0.18	0.02	0.05	0.2	10	0.01	0.13	0.02	0.07	2.1	10	0.01	0.10	<0.01	0.05	2.4	18	0.01	0.26	0.06	0.10	2.1
25	<0.01	0.21	0.02	0.07	0.2	15	<0.01	0.46	0.04	0.08	1.3	25	0.11	<0.01	0.11	0.15	1.7	30	0.16	0.30	0.16	0.21	2.8
37	<0.01	0.28	0.02	0.09	0.2	20	<0.01	0.69	0.06	0.11	0.7	38	0.11	0.05	0.13	0.19	1.6	39	0.14	0.36	0.26	0.32	3.1
						30	0.01	0.56	0.06	0.11	0.6												
						38	0.01	0.69	0.07	0.13	0.6												

OKANAGAN LAKE - NORTH

APRIL						JUNE						AUGUST						OCTOBER					
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
STATION 10																							
1	<0.01	0.77	0.01	0.04	4.9	1	<0.01	0.08	0.29	0.38	3.9	1	<0.01	0.39	<0.01	0.02	4.3	1	<0.01	0.16	<0.005	0.02	4.3
5	<0.01	0.15	<0.01	0.03	4.8	5	<0.01	0.05	<0.01	0.03	3.7	5	<0.01	0.44	<0.01	0.02	4.3	5	<0.01	<0.01	<0.005	0.02	4.3
10	<0.01	0.21	<0.01	0.03	4.8	10	<0.01	0.33	<0.01	0.03	3.9	10	<0.01	0.36	<0.01	0.02	4.4	15	<0.01	<0.01	<0.005	0.02	4.4
25	<0.01	0.16	<0.01	0.04	5.0	25	0.01	0.13	0.01	0.03	4.2	25	0.04	0.31	0.01	0.02	4.7	25	0.02	<0.01	0.005	0.02	4.9
50	0.01	0.20	<0.01	0.03	5.1	50	0.02	<0.01	0.01	0.03	4.3	50	0.03	0.36	0.01	0.02	4.8	53	0.02	<0.01	0.005	0.02	5.0
59	0.02	0.11	<0.01	0.03	5.3	62	0.02	0.13	0.01	0.03	4.4	58	0.04	0.15	0.01	0.03	4.9						
STATION 11																							
1	0.02	0.28	<0.01	0.02	5.0	1	<0.01	<0.01	0.69	0.17	4.0	1	<0.01	0.25	<0.01	0.02	4.2	1	0.04	<0.01	<0.005	0.02	4.4
5	<0.01	0.50	<0.01	0.03	5.0	5	<0.01	0.07	0.01	0.03	3.9	5	<0.01	0.25	<0.01	0.02	4.2	5	<0.01	<0.01	<0.005	0.02	4.4
10	<0.01	0.16	0.01	0.02	4.9	10	<0.01	0.11	<0.01	0.04	3.9	10	<0.01	0.16	<0.01	0.03	4.2	10	<0.01	<0.01	<0.005	0.02	4.4
25	0.03	0.18	<0.01	0.03	5.1	25	<0.01	0.15	<0.01	0.02	4.1	25	0.13	0.25	<0.01	0.02	4.6	25	<0.01	<0.01	<0.005	0.02	4.5
50	0.03	0.18	<0.01	0.03	5.5	50	0.02	0.02	0.01	0.01	4.2	50	0.04	<0.01	0.01	0.02	5.0	50	0.01	<0.01	<0.005	0.02	4.8
100	0.03	0.11	<0.01	0.02	5.5	100	0.03	0.20	0.01	0.01	4.4	100	0.04	0.21	0.01	0.02	5.1	100	0.03	<0.01	0.005	0.04	5.0
180	0.03	0.08	<0.01	0.03	5.7	182	0.04	<0.01	0.01	0.03	4.8	168	0.05	0.15	0.01	0.03	5.4	152	0.04	<0.01	0.01	0.05	5.5
STATION 13																							
1	<0.01	0.15	0.01	0.02	4.9	1	<0.01	0.05	0.20	0.23	4.2	1	<0.01	0.13	<0.01	0.02	4.4	1	<0.01	0.26	0.009	0.04	4.4
5	<0.01	0.13	<0.01	0.03	4.9	5	ND	ND	ND	ND	4.1	5	<0.01	0.13	<0.01	0.02	4.4	5	<0.01	0.10	<0.005	0.03	4.6
10	<0.01	0.17	<0.01	0.03	5.1	10	<0.01	0.16	<0.01	0.03	4.0	10	<0.01	0.08	<0.01	0.02	4.3	10	<0.01	0.08	<0.005	0.02	4.4
25	0.02	0.11	<0.01	0.03	5.0	25	<0.01	0.14	0.03	0.05	4.2	25	<0.01	0.70	<0.01	0.02	4.6	25	<0.01	0.30	<0.005	0.03	4.5
50	0.02	0.15	0.01	0.03	5.3	50	0.01	0.20	0.01	0.02	4.3	50	0.02	0.13	<0.01	0.02	4.8	50	0.02	0.39	<0.005	0.02	4.8
100	0.03	0.10	<0.01	0.03	5.4	100	0.02	0.13	<0.01	0.01	4.4	100	0.04	<0.01	0.01	0.02	4.8	100	0.03	0.11	<0.005	0.01	5.0
219	0.02	0.13	<0.01	0.03	5.4	210	0.04	0.13	0.01	0.07	4.8	190	0.06	0.62	0.02	0.03	5.6	220	0.05	0.13	0.02	0.03	6.0
STATION 17																							
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
1	<0.01	0.13	0.01	0.05	5.4	1	<0.01	0.20	0.14	0.22	4.7	1	<0.01	<0.01	<0.01	0.02	4.0	1	<0.01	0.23	<0.005	0.02	5.9
5	<0.01	0.18	<0.01	0.03	4.8	5	<0.01	0.07	<0.01	0.04	4.7	5	<0.01	<0.01	<0.01	0.03	4.0	5	<0.01	0.31	<0.005	0.02	4.5
10	<0.01	0.20	<0.01	0.03	4.8	10	<0.01	0.13	<0.01	0.03	4.5	10	<0.01	0.02	<0.01	0.02	4.1	10	0.01	0.11	<0.005	0.03	4.7
15	<0.01	0.24	<0.01	0.05	4.9	15	<0.01	0.13	<0.01	0.03	4.4	14	<0.01	0.13	<0.01	0.03	5.2	15	<0.01	0.11	<0.005	0.04	4.9
STATION 18																							
1	0.01	0.16	0.02	0.05	4.8	1	<0.01	0.23	<0.01	0.02	3.2	1	<0.01	0.11	<0.01	0.02	4.5	1	<0.01	0.10	<0.005	0.02	4.5
5	<0.01	0.01	0.01	0.03	4.8	5	<0.01	0.11	<0.01	0.03	4.3	10	<0.01	0.15	<0.01	0.02	4.4	5	<0.01	0.11	<0.005	0.02	4.5
10	<0.01	0.15	0.01	0.03	4.8	10	<0.01	0.15	<0.01	0.03	4.2	15	<0.01	0.08	<0.01	0.03	4.7	10	<0.01	0.54	<0.005	0.02	4.5
20	<0.01	0.10	<0.01	0.03	5.0	20	<0.01	<0.01	<0.01	0.03	4.2	19	<0.01	0.11	0.01	0.04	5.4	19	<0.01	0.13	<0.005	0.02	4.5

KALAMALKA LAKE

APRIL						JUNE						AUGUST						OCTOBER					
STATION 2																							
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
1	0.03	0.11	0.01	0.04	10.6	1	<0.01	0.95	0.09	0.11	9.9	1	<0.01	<0.01	<0.01	0.01	10.0	1	<0.01	<0.01	<0.005	0.005	10.3
5	0.03	0.11	0.01	0.03	10.7	5	<0.01	0.64	<0.01	0.01	9.9	5	<0.01	0.08	<0.01	0.01	10.0	15	<0.01	0.10	<0.005	0.005	10.3
10	0.02	0.18	0.01	0.03	10.6	10	0.01	0.59	0.01	0.01	9.9	15	<0.01	0.10	<0.01	0.02	9.9	20	<0.01	0.23	<0.005	0.005	10.3
25	0.03	0.18	0.01	0.03	10.5	25	<0.01	0.82	<0.01	0.02	10.3	20	0.01	0.02	<0.01	0.03	10.1	30	0.03	0.16	<0.005	0.009	10.8
46	0.01	0.31	0.02	0.03	10.6	50	0.02	0.16	0.01	0.01	10.7	40	0.02	<0.01	<0.01	ND	10.4	50	0.02	0.15	<0.005	0.006	10.8
						60	0.02	0.11	<0.01	0.01	10.7	50	0.03	<0.01	<0.01	ND	10.7						
STATION 4																							
1	0.02	0.28	0.33	0.37	10.8	1	<0.01	0.18	0.09	0.10	10.7	1	<0.01	<0.01	<0.01	0.01	9.9	1	<0.01	0.10	<0.005	0.008	10.6
5	0.02	0.33	0.03	0.04	10.4	5	<0.01	0.18	0.01	0.04	10.0	5	0.02	<0.01	<0.01	0.01	10.0	5	<0.01	0.02	<0.005	0.01	10.0
10	0.02	<0.01	0.01	0.01	10.4	10	<0.01	0.18	0.01	0.02	10.0	10	0.01	0.15	<0.01	0.01	10.0	10	<0.01	0.13	<0.005	<0.005	10.1
25	0.02	0.23	0.02	0.03	10.5	25	<0.01	0.07	<0.01	0.02	10.3	25	<0.01	<0.01	<0.01	0.03	10.1	25	<0.01	0.05	<0.005	0.01	10.1
50	0.02	0.25	0.01	0.03	10.4	50	0.01	0.16	<0.01	0.01	10.6	50	0.02	<0.01	<0.01	0.01	.0.4	50	0.02	9.11	<0.005	0.01	10.6
78	0.03	0.20	0.01	0.03	10.6	100	0.02	0.23	<0.01	0.01	10.7	90	0.04	<0.01	<0.01	0.01	10.8	100	0.05	0.23	<0.005	0.01	10.8

OKANAGAN LAKE - SOUTH

APRIL						JUNE						AUGUST						OCTOBER					
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
STATION 1																							
1	<0.01	0.05	0.01	0.03	4.5	1	0.01	0.33	<0.01	ND	4.4	1	<0.01	0.49	<0.01	0.01	4.2	1	0.01	0.07	<0.005	0.02	4.5
5	<0.01	0.10	0.02	0.04	4.6	5	<0.01	0.34	0.01	0.02	4.4	5	0.02	0.49	<0.01	0.01	4.2	5	0.01	<0.01	<0.005	0.01	4.6
10	<0.01	0.23	0.02	0-05	5.2	10	<0.01	0.25	0.01	0.03	4.6	10	<0.01	0.41	<0.01	0.01	4.2	10	0.01	0.07	<0.005	0.01	4.6
25	<0.01	0.23	0.01	0.04	5.2	25	<0.01	0.15	<0.01	0.02	4.2	25	<0.01	0.49	<0.01	0.01	4.4	25	0.01	0.28	<0.005	0.02	4.7
50	<0.01	0.25	0.51	0.58	4.9	50	0.01	0.21	0.01	0.02	4.3	50	0.02	0.46	<0.01	0.01	ND	50	0.01	0.28	<0.005	0.01	4.7
84	<0.01	0.42	0.01	0.05	4.9	80	<0.01	0.23	0.08	0.11	4.3	83	0.04	0.20	<0.01	0.01	4.8	80	0.02	<0.01	<0.005	0.02	5.2
STATION 4																							
1	0.01	0.21	0.01	0.21	4.9	1	0.01	0.30	0.11	0.13	4.0	1	<0.01	0.10	<0.01	0.01	4.2	1	<0.01	<0.01	<0.005	0.01	4.4
5	<0.01	0.13	<0.01	0.03	4.3	5	<0.01	0.23	0.01	0.02	4.1	5	<0.01	0.0	<0.01	0.01	4.2	5	0.01	<0.01	<0.005	0.01	4.9
10	<0.01	0.20	<0.01	0.03	4.3	10	<0.01	0.30	0.01	0.02	4.0	10	<0.01	0.02	<0.01	0.01	4.2	10	<0.01	0.46	<0.005	0.02	4.4
25	<0.01	0.16	<0.01	0.03	4.3	25	0.01	0.41	0.01	0.02	4.0	25	<0.01	0.11	<0.01	0.02	4.4	25	0.01	<0.01	<0.005	0.01	4.7
50	<0.01	0.69	<0.01	0.03	4.1	50	0.01	0.20	0.03	0.02	4.2	50	0.02	0.46	<0.01	0.01	4.6	50	0.02	<0.01	<0.005	0.02	4.9
100	0.01	0.16	0.01	0.03	4.4	100	0.02	0.34	<0.01	0.02	4.2	100	0.04	0.30	<0.01	0.01	4.7	100	0.02	<0.01	<0.005	0.02	4.9
123	0.01	0.28	0.01	0.05	4.5	124	0.02	0.11	0.08	0.02	4.4	133	0.06	0.36	<0.01	0.05	7.0	133	0.02	<0.01	<0.005	0.02	4.9
STATION 8																							
1	0.01	0.20	<0.01	0.03	4.3	1	0.01	0.08	0.10	0.10	4.0	1	<0.01	0.29	<0.01	0.01	4.1	1	<0.01	<0.01	<0.005	0.02	4.2
5	<0.01	0.21	<0.01	0.04	4.2	5	<0.01	0.28	0.09	0.10	4.0	5	<0.01	0.16	<0.01	0.02	4.1	5	<0.01	<0.01	<0.005	0.02	4.2
10	<0.01	0.15	<0.01	0.03	4.3	10	<0.01	0.08	<0.01	0.03	4.0	10	<0.01	0.25	<0.01	0.02	4.2	10	<0.01	0.07	<0.005	0.02	4.2
25	<0.01	0.28	<0.01	0.03	4.3	25	0.01	0.0	0.14	0.19	4.3	25	<0.01	0.25	<0.01	0.02	4.4	20	<0.01	0.13	<0.005	0.02	4.3
50	0.01	0.18	<0.01	0.03	4.4	50	0.01	0.08	<0.01	0.02	4.2	50	0.02	0.23	<0.01	0.01	4.5	25	<0.01	0.13	<0.005	0.02	4.4
						68	0.01	0.25	<0.01	0.02	4.2	75	0.04	0.43	<0.01	0.02	4.6	48	0.02	0.03	<0.005	0.02	4.9

OSOYOOS LAKE

APRIL						JUNE						AUGUST						OCTOBER					
DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2	DEP-TH	NO_3	TKN	$O-PO_4$	$t-PO_4$	SiO_2
STATION 1																							
1	0.01	0.24	0.01	0.05	2.2	1	<0.01	0.59	0.01	0.06	3.1	1	0.01	0.39	0.24	ND	3.4	1	0.02	0.26	<0.005	0.05	4.2
5	<0.01	0.24	0.01	0.06	2.0	5	<0.01	0.41	0.01	0.05	3.1	5	0.01	0.38	<0.01	ND	ND	15	0.02	0.23	<0.005	0.05	4.2
10	0.01	0.23	0.02	0.05	2.1	10	0.02	0.34	0.02	0.06	3.4	10	0.17	0.38	0.07	ND	4.8	17	0.03	0.48	<0.005	0.05	4.2
25	0.03	0.28	0.02	0.05	2.3	15	0.02	0.33	0.02	0.06	3.3	18	0.02	0.38	<0.01	ND	3.8	20	0.26	0.07	0.14	0.18	7.5
35	0.03	0.29	0.02	0.06	2.6	20	0.04	0.30	0.02	0.06	3.1	30	0.23	0.28	0.20	ND	6.0	25	0.17	0.23	0.15	0.20	7.3
						25	0.06	0.13	0.03	0.06	2.7	35	0.23	0.31	0.24	ND	6.4						
						30	0.07	0.13	0.03	0.07	2.7												
						36	0.01	0.25	0.01	0.06	3.3												
STATION 3																							
1	<0.01	0.28	0.01	0.06	2.0	1	<0.01	0.23	<0.01	0.05	3.0	1	0.04	0.23	0.21	ND	3.4	1	0.02	0.02	<0.005	0.04	4.3
5	<0.01	0.23	0.01	0.07	2.0	8	0.01	0.28	<0.01	0.05	3.0	5	<0.01	0.21	<0.01	ND	3.4	15	0.02	<0.01	<0.005	0.04	4.2
10	0.02	0.13	<0.01	0.08	2.5	12	0.01	0.10	0.01	0.05	3.4	15	0.05	0.11	<0.01	ND	4.5	20	0.03	0.33	<0.005	0.04	4.2
25	0.02	0.13	<0.01	0.11	3.0	20	0.05	0.38	0.03	0.06	2.8	20	0.19	0.03	0.11	ND	6.1	25	0.10	0.43	0.02	0.06	5.8
40	0.03	0.20	0.01	0.06	3.0	30	0.08	0.11	0.03	0.07	2.9	30	0.23	0.16	0.17	ND	6.0	37	0.14	<0.01	0.08	0.15	6.5
						40	0.09	0.46	0.05	0.10	3.2	41	0.20	0.16	0.15	ND	6.0						
STATION 5																							
1	<0.01	0.15	0.02	0.06	2.2	1	<0.01	0.98	<0.01	0.05	3.2	1	0.03	0.26	0.12	ND	3.6	1	0.01	0.38	<0.005	0.05	4.2
5	<0.01	0.15	0.01	0.06	2.0	5	0.01	0.10	<0.01	0.05	3.4	7	<0.01	0.38	<0.01	ND	3.6	5	0.03	0.18	<0.005	0.05	4.2
12	<0.01	0.33	0.03	0.07	2.1	10	<0.01	0.28	<0.01	0.06	3.6	11	<0.01	0.08	0.05	ND	7.7	11	0.01	0.15	<0.005	0.05	4.6
						13	<0.01	0.21	<0.01	0.06	3.6												
STATION 6																							
1	<0.01	<0.01	0.01	0.05	2.8	1	<0.01	0.18	<0.01	0.04	2.6	1	0.03	0.34	<0.01	ND	3.8	1	<0.01	0.31	<0.005	0.05	4.4
5	<0.01	0.55	0.02	0.05	2.5	5	<0.01	0.31	<0.01	0.06	3.0	5	<0.01	0.33	<0.01	ND	3.8	5	0.02	0.02	<0.005	0.05	4.4
10	<0.01	0.20	0.01	0.07	2.6	10	0.01	0.20	<0.01	0.05	3.4	10	0.03	0.16	<0.01	ND	4.6	10	0.01	0.20	<0.005	0.06	4.4
20	<0.01	0.36	0.01	0.05	2.6	23	0.02	0.30	0.02	0.06	6.2	15	<0.01	0.33	<0.01	ND	8.1	22	<0.01	0.26	<0.005	0.09	5.2
												21	<0.01	0.56	0.03	ND	9.8						

APPENDIX C-2

DATA LISTING OF THE MAJOR CATION SPECIES FOR THE OKANAGAN MAIN VALLEY LAKES, 1971.

(Parts Per Million)

WOOD LAKE

APRIL

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
STATION 1				
1	35.7	13.8	18.1	3.9
5	33.5	15.0	18.5	3.9
10	37.6	12.7	18.3	3.9
22	32.6	15.7	17.7	3.8
STATION 2				
1	31.8	16.4	18.4	4.0
5	33.8	15.0	18.5	3.9
10	35.0	14.3	18.3	3.9
25	33.8	15.0	18.3	3.9
28	30.9	16.8	18.1	3.9
STATION 4				
	28.9	18.0	18.4	4.1
	37.3	12.9	18.1	3.9
	26.7	19.6	18.0	3.8
	28.3	18.3	17.7	3.8

JUNE

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	28.1	18.5	18.5	4.2
5	29.6	17.6	18.3	4.1
10	27.6	18.8	18.4	4.1
15	29.3	18.2	18.9	4.3
20	27.7	19.0	18.6	4.3
25	28.1	19.0	18.6	4.4
1	27.8	18.7	19.2	4.4
5	28.0	18.5	18.4	4.2
10	38.6	12.3	18.7	4.4
15	28.6	18.7	4.3	15
20	28.8	18.5	18.6	4.3
28	29.2	18.3	18.9	4.4
1	28.2	18.4	18.9	4.4
5	28.6	18.2	19.0	4.3
10	28.7	18.3	18.5	4.2
15	27.6	19.0	19.0	4.4

AUGUST

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	21.8	16.2	19.8	4.1
5	21.8	16.5	2.04	4.2
10	21.7	16.8	19.2	4.0
15	30.9	17.5	19.3	4.3
20	31.8	17.9	19.6	4.3
28	31.5	17.6	19.5	4.3
1	21.1	16.7	19.7	4.2
5	20.7	16.9	20.6	4.4
10	28.4	17.1	19.5	4.2
15	30.4	18.2	19.7	4.3
25	32.7	16.9	19.9	4.5
30	32.2	17.2	20.5	4.6
1	21.7	15.8	20.2	4.4
5	19.2	17.3	20.9	4.5
10	27.6	17.8	20.0	4.4
17	31.7	18.0	20.6	4.6

OCTOBER

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	22.9	17.5	19.4	4.3
10	22.1	18.7	19.4	4.3
15	31.7	18.5	19.0	4.3
20	31.1	18.3	18.9	4.4
1	21.7	18.2	19.0	4.3
10	21.9	18.3	19.2	4.3
15	31.1	18.6	19.0	4.3
20	30.6	17.7	19.7	4.3
29	30.1	18.7	18.5	4.4
1	21.9	17.9	18.5	4.2
10	22.7	17.9	19.4	4.2
15	25.4	18.2	19.0	4.2
18	31.2	18.5	18.4	4.2

KALAMALKA LAKE

APRIL

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
STATION 2				
1	39.8	16.5	15.1	4.3
5	37.8	17.7	15.3	4.3
10	38.1	17.5	15.1	4.3
25	36.6	18.4	15.5	4.5
46	37.7	17.7	15.8	4.6
STATION 4				
1	37.4	18.2	15.5	4.5
5	36.7	18.3	15.5	4.6
10	36.7	18.3	16.0	4.6
25	37.3	18.2	15.8	4.5
50	37.5	17.9	15.8	4.6
78	37.4	17.9	16.0	4.6

JUNE

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	38.1	16.6	16.0	4.7
5	38.4	17.1	16.3	4.8
10	37.8	17.2	15.5	4.4
25	39.1	16.9	16.3	4.8
50	38.4	17.3	16.0	4.7
60	38.2	17.4	16.0	4.7
1	38.0	17.3	16.0	4.8
5	37.4	17.7	15.5	4.6
10	37.6	17.3	15.7	4.4
25	38.6	17.2	16.1	4.7
50	37.5	17.9	15.7	4.7
105	38.4	17.6	16.3	4.8

AUGUST

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	38.6	16.2	16.2	4.6
5	37.7	16.8	16.0	4.6
15	39.2	16.1	16.0	4.6
30	41.1	15.7	16.1	4.6
40	41.0	15.7	15.8	4.6
50	40.9	15.8	16.3	4.6
1	38.3	16.9	16.0	4.3
5	37.5	17.1	16.0	4.5
10	36.8	17.3	16.0	4.6
25	38.5	17.0	16.4	4.6
50	38.9	16.8	16.0	4.6
90	39.3	16.8	16.4	4.6

OCTOBER

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	36.0	17.3	15.8	4.6
15	36.0	17.6	15.8	4.6
20	38.4	16.2	15.8	4.6
30	37.5	17.9	15.8	4.6
1	33.7	17.6	15.8	4.6
5	37.6	16.6	16.0	4.5
10	35.4	17.9	15.6	4.5
25	38.2	12.1	15.8	4.5
50	38.2	17 2	15.8	4.5
100	37.8	17.4	15.8	4.5

OKANAGAN LAKE - NORTH

APRIL					JUNE					AUGUST					OCTOBER				
STATION 10																			
DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	32.9	8.7	9.1	2.1	1	33.4	7.4	9.1	2.1	1	33.5	7.6	9.1	2.1	1	31.9	8.4	9.1	2.1
5	32.2	8.9	9.0	2.0	5	32.7	7.9	8.8	2.0	5	32.9	8.0	9.0	2.1	5	32.0	8.3	9.1	2.1
10	32.2	8.9	9.0	2.0	10	32.8	8.5	8.8	2.0	10	32.5	8.2	9.1	2.1	15	32.6	8.2	9.1	2.1
25	32.2	8.9	9.0	2.0	25	33.9	7.6	9.3	2.1	25	34.3	7.9	9.2	2.2	25	31.8	9.2	9.1	2.1
50	32.5	8.7	9.1	2.1	50	34.3	7.6	9.3	2.1	50	33.4	8.2	9.4	2.3	53	33.4	8.9	9.1	2.1
59	32.4	8.8	9.2	2.4	62	33.9	7.4	9.2	2.0	58	34.1	8.0	9.7	2.4					
STATION 11																			
1	33.7	8.0	9.1	2.1	1	32.6	7.9	8.9	2.1	1	32.8	8.1	9.3	2.2	1	33.0	7.9	9.2	2.2
5	32.4	8.8	9.0	2.0	5	32.1	8.5	9.0	2.1	5	33.0	7.7	9.3	2.2	5	32.2	8.4	9.2	2.2
10	32.2	8.9	9.0	2.0	10	31.9	8.1	8.7	1.9	10	32.8	8.1	9.5	2.2	10	32.7	7.9	9.2	2.2
25	32.4	8.8	9.0	2.1	25	30.5	9.5	9.1	2.1	25	34.9	7.5	9.2	2.2	25	32.9	9.0	9.2	2.2
50	32.3	8.8	9.1	2.1	50	32.8	8.8	9.2	2.2	50	34.2	7.7	9.2	2.2	50	33.6	8.3	9.2	2.2
100	32.3	8.8	9.0	2.0	100	32.9	8.7	9.1	2.2	100	33.5	8.4	9.2	2.2	100	33.5	8.4	9.2	2.2
180	32.7	8.6	9.0	2.0	182	33.2	8.8	9.2	2.1	168	33.5	8.4	9.2	2.3	152	32.8	8.5	9.2	2.2
STATION 13																			
1	32.4	8.8	9.1	2.1	1	32.1	8.5	8.9	2.2	1	33.6	7.8	8.7	2.2	1	32.4	8.5	9.2	2.2
5	32.2	8.9	9.1	2.1	5	32.3	8.3	8.9	2.0	5	33.3	8.0	9.0	2.3	5	32.7	9.3	9.2	2.3
10	33.0	8.4	9.1	2.1	10	32.6	8.1	9.0	2.1	10	35.1	6.6	8.8	2.2	10	32.2	8.4	9.1	2.3
25	32.4	8.8	9.1	2.1	25	32.9	8.2	9.2	2.1	25	34.4	7.6	9.0	2.2	25	32.7	8.4	9.1	2.3
50	32.4	8.8	9.1	2.1	50	33.4	8.4	9.0	2.1	50	34.3	7.6	9.0	2.2	50	33.8	7.9	9.1	2.3
100	32.6	8.7	9.2	2.1	100	33.2	8.5	9.5	2.2	100	33.6	8.1	9.1	2.1	100	33.2	8.3	9.2	2.3
219	32.3	8.8	9.0	2.1	210	33.0	8.9	9.1	2.2	190	34.9	7.7	9.3	2.1	220	33.9	7.6	9.4	2.3
STATION 17																			
DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	34.5	9.5	9.4	2.2	1	33.9	8.8	9.1	2.3	1	33.3	8.2	8.6	2.0	1	33.2	7.8	9.8	2.4
5	32.4	8.8	9.1	2.1	5	33.0	8.4	8.9	2.2	5	33.0	8.4	8.5	2.0	5	33.4	8.3	9.8	2.4
10	32.6	8.7	9.2	2.3	10	31.9	8.6	8.9	2.1	10	33.4	8.2	8.6	2.0	10	33.3	8.2	9.5	2.4
15	32.2	8.9	9.1	2.2	15	32.6	8.2	9.1	2.1	14	34.3	7.9	8.2	1.9	15	33.5	8.4	9.5	2.4
STATION 18																			
1	33.0	8.9	9.4	2.2	1	33.2	8.3	9.3	2.2	1	32.6	8.7	8.4	1.9	1	32.3	8.5	9.8	2.4
5	33.5	8.6	9.0	2.1	5	32.1	8.2	9.1	2.1	10	33.0	8.4	8.5	2.0	5	32.1	8.5	9.7	2.4
10	32.4	8.6	9.0	2.1	10	32.0	8.5	9.0	2.1	15	32.4	8.8	8.0	1.9	10	32.7	8.1	9.6	2.4
20	33.4	8.4	9.2	2.2	20	33.0	7.9	9.2	2.1	19	33.0	8.4	8.3	2.0	19	32.8	8.3	9.6	2.4

OKANAGAN LAKE - SOUTH

APRIL

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
STATION 1				
1	35.3	7.3	9.0	2.1
5	33.4	8.4	9.5	2.1
10	32.7	8.6	9.6	2.1
25	33.8	8.2	9.0	2.1
50	32.8	9.1	9.3	2.2
84	33.0	8.7	9.3	2.2
STATION 4				
1	33.4	8.4	9.0	2.2
5	33.3	8.5	9.3	2.2
10	33.0	8.7	9.3	2.2
25	33.2	8.5	9.3	2.2
50	32.8	8.8	9.3	2.2
100	32.8	8.8	9.0	2.2
123	32.1	9.0	9.3	2.3
STATION 8				
1	32.6	9.0	9.5	2.5
5	32.2	9.1	9.5	2.4
10	33.0	8.4	9.3	2.2
25	32.2	8.9	9.3	2.2
50	32.9	8.5	9.3	2.2

JUNE

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	32.4	9.3	8.9	2.0
5	31.9	8.1	8.8	2.0
10	31.8	8.2	8.6	2.0
25	33.0	8.4	9.6	2.0
50	33.4	8.4	9.2	2.1
80	31.6	8.1	8.6	2.0
1	32.8	7.8	8.9	2.0
5	33.0	7.4	9.0	2.0
10	32.1	8.2	8.6	2.0
25	33.5	8.1	9.1	2.1
50	32.9	8.7	9.3	2.2
100	33.2	8.5	9.0	2.0
124	34.3	8.1	9.1	2.1
1	31.4	8.2	8.6	2.3
5	31.8	8.2	8.6	2.4
10	31.9	8.1	8.7	2.1
25	32.6	8.4	9.3	2.2
50	32.8	8.5	9.1	2.0
68	34.5	7.7	9.2	2.0

AUGUST

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	31.8	8.2	9.2	2.0
5	32.4	7.8	9.7	2.1
10	33.3	7.3	8.7	2.3
25	32.6	8.2	9.0	2.5
50	32.9	8.2	9.0	2.4
83	33.0	8.9	9.3	2.2
1	32.5	7.7	8.8	2.1
5	32.6	8.2	9.0	2.2
10	33.4	7.2	8.6	2.1
25	32.6	8.4	9.1	2.2
50	35.9	6.6	9.3	2.2
100	33.4	8.4	9.3	2.3
133	33.5	8.4	9.0	2.3
1	32.6	8.2	9.3	2.3
5	32.6	7.9	8.9	2.2
10	32.6	8.2	9.1	2.2
25	31.9	8.6	8.7	2.2
50	32.9	8.7	9.2	2.3
75	34.8	7.3	8.9	2.2

OCTOBER

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	32.7	8.1	9.6	2.2
5	32.0	8.5	9.8	2.2
10	32.6	8.7	9.7	2.2
25	33.4	7.9	9.8	2.2
50	32.7	8.6	9.7	2.2
80	32.7	8.8	7.7	2.2
1	32.3	8.6	9.6	2.2
5	32.0	8.3	9.6	2.1
10	32.6	8.2	9.0	2.4
25	32.7	8.6	8.9	2.4
50	33.6	7.8	9.5	2.1
100	33.1	8.6	9.1	2.1
133	32.6	8.7	9.1	2.1
1	33.1	8.4	8.9	2.1
5	32.8	7.8	8.9	2.1
10	31.8	8.7	9.1	2.1
20	33.0	7.9	9.1	2.1
25	32.3	8.4	8.9	2.1
48	32.2	8.2	9.0	2.1

SKAHA LAKE

APRIL

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
STATION 1				
1	33.1	9.1	10.4	2.3
5	33.4	9.1	10.0	2.2
10	32.9	9.4	10.6	2.3
STATION 2				
1	33.0	9.1	10.0	2.2
5	33.0	9.4	10.1	2.2
10	32.7	9.3	9.9	2.2
25	33.0	9.1	10.2	2.3
47	32.6	9.4	9.9	2.2
STATION 4				
1	33.0	9.1	10.1	2.3
5	33.6	9.0	10.0	2.3
10	33.0	9.1	9.8	2.3
25	33.4	9.1	9.8	2.3
48	33.0	9.1	9.8	2.3
STATION 6				
1	33.3	9.2	10.1	2.3
5	33.3	9.2	9.8	2.3
10	33.8	8.9	9.9	2.4
25	33.2	9.0	9.9	2.3
37	33.6	9.0	9.9	2.3

JUNE

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	31.0	7.7	9.3	2.1
5	30.2	8.4	9.5	2.1
10	31.3	8.0	9.1	2.1
1	30.7	7.9	9.3	2.2
5	31.4	7.2	8.9	2.1
10	30.4	8.1	9.1	2.1
15	35.0	7.2	9.6	2.2
20	33.7	8.5	9.5	2.1
30	34.7	8.1	10.0	2.2
44	34.4	8.5	10.1	2.2
1	30.5	8.0	8.9	1.9
5	30.0	8.3	8.8	1.9
10	30.3	8.1	8.9	1.9
15	32.0	8.8	9.3	1.9
20	32.8	9.0	9.6	2.0
30	33.5	9.1	9.8	2.1
44	33.7	8.9	9.7	2.2
1	30.3	8.3	9.1	2.2
5	30.2	8.4	9.1	2.1
10	31.1	8.4	9.2	2.1
15	31.7	8.7	9.5	2.2
20	34.3	8.3	10.0	2.2
30	33.5	9.1	10.0	2.6
38	34.5	8.5	10.0	2.4

AUGUST

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	31.9	7.9	8.9	1.9
5	32.2	8.2	9.2	2.0
10	33.0	8.4	8.8	2.0
1	32.1	8.0	8.7	2.0
5	33.4	6.0	9.0	2.1
15	34.3	7.4	8.9	2.0
30	34.3	7.9	8.7	2.0
48	35.3	7.5	9.2	2.1
1	31.8	7.9	8.7	2.0
5	31.0	8.4	8.7	2.0
15	32.6	8.4	9.0	2.1
30	34.3	8.1	9.2	2.1
45	33.2	8.1	8.7	2.1
1	32.0	7.6	9.0	2.1
5	31.3	8.2	8.8	2.1
10	32.2	7.7	8.9	2.1
25	32.6	9.2	8.9	1.8
38	35.0	8.2	9.3	2.0

OCTOBER

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	31.9	8.4	9.6	2.1
5	32.3	8.1	9.6	2.1
10	31.3	8.7	9.6	2.1
1	32.2	8.2	9.6	2.1
10	31.8	8.7	9.8	2.1
20	33.7	8.7	9.6	2.1
30	34.0	8.3	9.6	2.1
48	34.1	8.5	9.6	2.1
1	32.7	7.9	9.2	2.1
10	31.9	8.3	9.2	2.1
20	33.8	8.2	9.3	2.1
30	33.9	8.6	9.4	2.1
44	34.1	8.5	9.4	2.1
1	31.7	8.5	9.6	2.1
15	32.8	8.1	9.6	2.1
18	34.4	7.8	9.6	2.1
30	33.9	8.3	9.7	2.1
39	33.9	8.1	9.8	2.1

OSOYOOS LAKE

APRIL

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
STATION 1				
1	41.4	6.82	10.3	2.4
5	37.4	9.16	10.1	2.2
10	38.3	8.60	10.2	2.3
25	36.6	9.96	9.9	2.2
35	37.6	9.28	10.2	2.3
STATION 2				
1	26.9	8.00	10.1	2.4
5	37.1	9.57	10.0	2.2
10	36.6	10.14	10.4	2.3
25	38.0	9.04	10.2	2.3
40	37.5	9.33	10.2	2.3
STATION 5				
1	39.1	8.57	10.3	2.4
5	37.4	10.25	10.2	2.3
12	38.7	8.84	10.3	2.3
STATION 6				
1	34.6	11.1	10.6	2.3
5	38.2	10.2	10.7	2.3
10	39.5	9.1	10.8	2.4
20	39.9	9.1	10.8	2.4

JUNE

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	31.0	6.20	8.5	2.8
5	29.3	7.25	8.4	2.4
10	30.1	7.25	8.6	2.0
15	31.3	7.73	8.8	2.0
20	32.6	5.50	9.1	2.0
25	35.2	6.57	9.8	2.2
30	36.1	6.52	10.0	2.2
36	29.3	5.03	8.3	1.9
1	29.6	7.08	8.3	2.6
8	29.5	7.37	8.2	2.1
12	30.6	7.20	8.4	2.0
20	36.1	9.70	10.2	2.3
30	35.9	9.84	10.3	2.4
40	35.9	10.05	10.2	2.4
1	29.3	7.50	8.4	1.9
5	30.0	7.58	8.4	2.0
10	30.2	7.20	8.8	2.0
13	31.4	6.72	8.4	1.9
1	32.7	6.40	9.5	4.8
5	31.7	8.45	9.4	2.2
10	32.4	8.06	9.3	2.2
23	38.1	9.95	10.0	2.2

AUGUST

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	31.1	8.34	9.6	2.1
5	31.8	8.18	10.0	2.2
10	35.0	9.86	10.8	2.5
18	31.8	8.14	9.9	2.2
30	36.8	8.78	11.0	2.5
35	35.9	9.56	11.1	2.5
1	31.3	7.74	10.2	2.2
5	31.0	9.62	9.7	2.1
15	31.7	8.22	10.1	2.2
20	35.0	9.63	10.9	2.5
30	35.8	9.61	10.2	2.4
41	35.1	9.56	10.9	2.5
1	31.1	8.10	10.0	2.3
5	30.9	8.46	9.7	2.1
11	33.2	7.56	9.6	2.1
1	32.5	8.23	10.1	2.3
5	33.5	7.61	9.8	2.2
10	33.0	8.64	10.2	2.4
15	35.4	9.14	10.9	2.5
21	36.9	8.95	10.6	2.5

OCTOBER

DEPTH	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}
1	33.7	8.7	9.9	2.3
15	34.2	8.7	9.7	2.3
17	34.7	8.9	9.7	2.3
20	25.9	15.4	10.3	2.5
35	35.4	9.6	10.3	2.5
1	33.8	9.2	10.0	2.3
15	33.9	8.8	10.0	2.3
20	33.8	8.8	10.0	2.3
25	34.8	9.0	10.0	2.3
37	35.6	9.3	10.1	2.4
1	33.1	7.6	10.1	2.3
5	33.3	9.4	9.7	2.3
11	33.4	9.2	10.0	2.3
1	34.6	8.7	10.3	2.3
5	34.6	9.2	10.3	2.4
10	34.3	9.3	10.3	2.4
22	34.7	9.1	10.1	2.4

APPENDIX C-3

DATA LISTING OF THE MAJOR ANION SPECIES FOR THE OKANAGAN MAIN VALLEY LAKES

(Parts Per Million)

KALAMALKA LAKE

APRIL 18

DEPTH	HCO_3	SO_4	Cl	F
STATION 2				
1	185.4	56.5	1.5	0.30
5	181	56.5	1.4	0.30
10	181	55.5	1.3	0.29
25	178	55.8	1.3	0.29
STATION 4				
1	178	55.7	1.4	0.29
5	181	55.8	1.2	0.29
10	178	55.5	1.3	0.30
25	179	56.6	1.7	0.30
50	179	55.8	1.6	0.29
78	179	55.8	.13	0.29

JUNE 19

DEPTH	HCO_3	SO_4	Cl	F
1	178	54.9	1.1	0.27
5	183	55.5	1.5	0.27
10	181	55.2	1.0	0.27
25	182	56.5	1.0	0.27
50	182	56.4	1.0	0.28
60	182	55.9	1.0	0.27
1	176	54.9	1.1	0.27
5	178	55.5	1.0	0.26
10	177	55.5	1.0	0.27
25	179	55.5	1.0	0.27
50	182	56.1	1.0	0.27
105	183	56.4	1.1	0.27

AUGUST 19

DEPTH	HCO_3	SO_4	Cl	F
1	171	55.6	1.3	0.33
5	173	54.6	1.3	0.33
15	171	55.4	1.3	0.32
30	176	54.2	1.4	0.33
40	178	56.1	1.3	0.33
50	178	55.1	1.3	0.33
1	171	56.2	1.4	0.32
5	172	55.4	1.3	0.32
10	172	54.4	1.3	0.32
25	178	55.7	1.3	0.32
50	178	55.7	1.3	0.33
90	178	55.4	1.3	0.33

OCTOBER 19

DEPTH	HCO_3	SO_4	Cl	F
1	171	55.4	1.3	0.30
15	171	55.3	1.3	0.30
20	172	55.3	1.3	0.31
30	181	55.6	1.3	0.30
1	171	55.8	1.3	0.30
5	171	55.4	1.4	0.30
10	171	55.3	1.4	0.31
25	172	55.8	1.4	0.31
50	179	55.9	1.4	0.31
100	179	56.8	1.4	0.31

WOOD LAKE

APRIL 13

DEPTH	HCO_3	SO_4	Cl	F
STATION 1				
1	190	30.1	2.6	0.34
5	188	30.7	2.6	0.34
10	190	28.9	2.6	0.34
22	190	29.7	2.6	0.34
STATION 2				
1	189	29.7	2.7	0.35
5	188	30.4	2.6	0.33
10	190	29.6	2.5	0.34
25	188	31.8	2.6	0.33
28	189	29.1	2.6	0.33
STATION 4				
1	190	30.1	2.7	0.32
5	188	31.2	2.7	0.32
10	189	30.9	2.7	0.32
15	190	29.9	2.7	0.32

JUNE 16

DEPTH	HCO_3	SO_4	Cl	F
1	165	30.9	2.3	0.30
5	168	31.1	2.3	0.30
10	173	30.6	2.4	0.30
15	193	31.1	2.6	0.30
20	193	30.6	2.4	0.30
25	198	31.9	2.4	0.30
1	165	30.9	2.3	0.30
5	168	31.7	2.2	0.30
10	179	31.7	2.2	0.30
15	193	31.4	2.6	0.30
20	194	31.7	2.3	0.30
28	198	30.6	2.4	0.30
1	166	31.2	2.4	0.30
5	171	31.5	2,2	0.30
10	181	31.4	2.2	0.30
15	194	31.1	2.3	0.30

AUGUST 16

DEPTH	HCO_3	SO_4	Cl	F
1	132	29.8	2.6	0.34
5	127	30.4	2.6	0.34
10	131	30.1	2.6	0.34
15	192	29.3	2.5	0.35
20	196	29.6	2.6	0.35
28	194	29.3	2.6	0.34
1	126	31.7	2.6	0.35
5	126	31.7	2.6	0.34
10	162	29.7	2.6	0.34
15	195	31.0	2.6	0.35
25	199	29.0	2.6	0.35
20	199	29.7	2.6	0.35
1	124	31.3	2.7	0.30
5	127	30.3	2.6	0.30
10	174	30.3	2.6	0.30
17	196	29.3	2.4	0.31

OCTOBER 14

DEPTH	HCO_3	SO_4	Cl	F
1	148	31.4	2.6	0.31
10	154	30.7	2.6	0.31
15	190	29.2	2.6	0.31
20	205	28.6	2.6	0.32
1	149	20.7	2.6	0.31
10	154	30.7	2.6	0.31
15	190	29.4	2.6	0.32
20	204	29.2	2.6	0.32
29	207	30.7	2.6	0.33
1	148	30.7	2.6	0.32
10	150	29.6	2.6	0.32
15	179	30.2	2.6	0.32
18	190	29.1	2.6	0.32

APPENDIX C-3 . . . CONTINUED

OKANAGAN LAKE - NORTH

STATION 10

APRIL 20					JUNE 20					AUGUST 20					OCTOBER 19				
DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
1	134	26.0	1.1	0.17	1	129	26.6	1.1	0.17	1	129	25.6	1.1	0.15	1	129	26.9	1.1	0.17
5	133	26.1	1.0	0.16	5	129	26.3	1.1	0.16	5	128	26.1	1.2	0.16	5	129	27.0	1.1	0.17
10	133	26.3	1.0	0.16	10	129	26.3	1.1	0.17	10	132	26.4	1.2	0.16	15	132	27.6	1.1	0.17
25	133	26.5	1.0	0.17	25	133	27.1	1.1	0.18	25	134	26.4	1.2	0.18	25	133	27.7	1.1	0.17
50	133	26.8	1.1	0.17	50	134	26.8	1.1	0.18	50	134	26.3	1.1	0.17	53	134	28.4	1.1	0.17
59	133	26.8	1.3	0.17	62	134	27.3	1.1	0.17	58	134	26.6	1.1	0.17					

STATION 11

APRIL 20					JUNE 20					AUGUST 20					OCTOBER 19				
DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
1	133	26.8	1.1	0.17	1	131	26.6	1.1	0.16	1	127	26.4	1.1	0.16	1	129	27.4	1.1	0.17
5	133	26.8	1.0	0.17	5	128	27.6	1.1	0.16	5	128	26.2	1.1	0.16	5	129	27.4	1.1	0.16
10	134	26.5	1.0	0.17	10	127	26.8	1.1	0.15	10	131	25.9	1.1	0.16	10	129	27.6	1.1	0.17
25	134	27.1	1.0	0.17	25	133	28.0	1.1	0.16	25	134	26.5	1.1	0.16	25	132	27.2	1.1	0.17
50	133	27.1	1.0	0.17	50	133	26.6	1.2	ND	50	134	26.7	1.2	0.16	50	133	27.6	1.1	0.17
100	133	27.7	1.0	0.16	100	137	27.5	1.2	0.16	100	134	26.4	1.1	0.16	100	134	28.2	1.1	0.17
180	133	27.6	1.0	0.17	182	137	27.8	1.2	0.17	168	134	26.0	1.1	0.16	152	134	27.7	1.1	0.17

STATION 13

APRIL 20					JUNE 20					AUGUST 20					OCTOBER 19				
DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
1	134	27.6	1.0	0.17	1	129	26.8	1.2	0.17	1	127	26.2	1.1	0.16	1	129	27.4	1.2	0.17
5	133	27.4	1.0	0.17	5	129	27.5	1.2	0.16	5	127	25.7	1.1	0.16	5	129	27.4	1.1	0.17
10	134	27.6	1.0	0.16	10	130	26.7	1.1	0.17	10	127	26.0	1.0	0.16	10	129	27.4	1.1	0.18
25	133	27.9	1.0	0.16	25	134	27.1	1.1	0.17	25	133	24.9	1.1	0.17	25	133	27.6	1.1	0.18
50	133	27.7	1.0	0.16	50	135	27.1	1.1	0.17	50	133	26.7	1.1	0.16	50	133	27.2	1.1	0.18
100	132	27.7	1.0	0.17	100	137	27.6	1.1	0.17	100	137	26.5	1.1	0.16	100	135	27.6	1.1	0.17
219	133	27.3	1.0	0.17	210	137	27.6	1.1	0.17	190	136	26.9	1.2	0.17	220	135	27.6	1.1	0.17

STATION 17

APRIL 20					JUNE 20					AUGUST 20					OCTOBER 19				
DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
1	139	29.2	1.0	0.16	1	132	29.2	1.2	0.17	1	133	26.5	1.1	0.16	1	129	27.0	1.1	0.17
5	134	30.2	1.2	0.16	5	134	28.5	1.1	0.17	5	128	26.5	1.1	0.17	5	129	27.9	1.1	0.18
10	133	28.2	1.2	0.16	10	132	27.1	1.2	0.17	10	126	27.4	1.0	0.16	10	128	27.6	1.1	0.17
15	133	27.9	1.0	0.16	15	133	27.0	1.1	0.17	14	134	26.9	1.0	0.16	15	134	28.1	1.1	0.17

STATION 18

APRIL 20					JUNE 20					AUGUST 20					OCTOBER 19				
DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
1	134	28.9	1.1	0.17	1	132	27.1	1.1	0.16	1	123	26.0	1.0	0.17	1	128	27.6	1.1	0.17
5	133	28.7	1.1	0.16	5	129	26.7	1.1	0.16	10	126	26.9	1.0	0.17	5	128	27.6	1.1	0.17
10	134	28.7	1.1	0.16	10	132	27.5	1.1	0.16	15	132	26.4	0.9	0.16	10	126	28.2	1.1	0.17
20	134	27.6	1.1	0.16	20	133	27.5	1.2	0.16	19	134	26.4	1.1	0.16	19	129	27.4	1.1	0.17

OKANAGAN LAKE - SOUTH

	APRIL 18					JUNE 19					AUGUST 19					OCTOBER 19			
DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
STATION 1																			
1	139	27.5	1.2	0.17	1	132	26.5	1.2	0.18	1	128	26.3	1.1	0.16	1	133	26.8	1.2	0.16
5	132	27.6	1.2	0.17	5	131	26.1	1.1	0.17	5	128	26.1	1.1	0.16	5	133	27.0	1.1	0.16
10	137	27.6	1.2	0.17	10	128	25.6	1.1	0.15	10	128	26.3	1.1	0.16	10	133	27.3	1.2	0.16
25	133	27.4	1.2	0.17	25	134	27.1	1.2	0.18	25	132	26.1	1.1	0.17	25	133	27.0	1.2	0.16
50	134	28.0	1.3	0.17	50	134	27.4	1.1	0.18	50	133	26.4	1.1	0.17	50	133	27.0	1.2	0.17
84	137	27.1	1.2	0.18	80	137	25.9	1.1	0.17	83	134	26.6	1.1	0.17	80	133	27.0	1.2	0.17
STATION 4																			
1	131	26.9	1.2	0.17	1	129	25.8	1.2	0.18	1	127	26.3	1.1	0.17	1	129	27.0	1.2	0.16
5	133	27.2	1.0	0.17	5	131	26.1	1.1	0.18	5	128	26.3	1.1	0.17	5	129	27.0	1.2	0.16
10	134	28.0	1.0	0.17	10	132	25.7	1.1	0.18	10	128	26.1	1.1	0.16	10	129	26.8	1.2	0.16
25	134	27.5	1.0	0.17	25	134	27.0	1.1	0.18	25	132	26.4	1.1	0.16	25	132	27.0	1.2	0.16
50	131	27.4	1.0	0.17	50	135	27.6	1.1	0.18	50	134	26.6	1.1	0.16	50	133	27.0	1.1	0.17
100	134	27.6	1.0	0.17	100	137	27.0	1.1	0.18	100	134	27.1	1.1	0.15	100	133	27.0	1.1	0.17
123	133	29.4	1.0	0.17	124	137	28.4	1.2	0.17	133	134	26.4	1.1	0.16	133	134	27.3	1.1	0.16
STATION 8																			
1	133	26.9	1.1	0.17	1	128	26.8	1.2	0.16	1	128	26.3	1.1	0.16	1	129	26.8	1.1	0.16
5	135	27.4	1.0	0.17	5	129	25.7	1.3	0.17	5	128	26.1	1.1	0.15	5	128	26.8	1.1	0.16
10	133	27.7	1.0	0.17	10	129	25.7	1.1	0.17	10	128	26.3	1.1	0.15	10	128	27.0	1.1	0.17
25	133	27.7	1.0	0.17	25	132	27.0	1.1	0.18	25	132	26.1	1.1	0.15	20	ND	26.8	1.1	0.17
50	133	27.6	1.0	0.17	50	134	27.0	1.1	0.18	50	133	26.4	1.1	0.16	35	131	26.7	1.1	0.17
					68	134	27.6	0.1	0.18	75	134	26.3	1.1	0.16	48	134	27.2	1.1	0.17

SKAHA LAKE

APRIL 18

Station	DEPTH	HCO_3	SO_4	Cl	F
STATION 1	1	140	28.7	1.4	0.17
	5	133	28.1	1.4	0.18
	10	138	28.4	1.5	0.18
STATION 2	1	132	28.1	1.4	0.18
	5	132	28.7	1.4	0.18
	10	134	28.2	1.4	0.18
	25	134	28.2	1.4	0.18
	47	134	27.4	1.4	0.19
STATION 4	1	133	28.4	1.4	0.18
	5	133	27.7	1.4	0.19
	10	133	28.1	1.4	0.18
	25	134	28.1	1.4	0.19
	48	138	28.4	1.4	0.18
STATION 5	1	133	27.1	1.4	0.18
	5	133	28.7	1.4	0.18
	10	133	27.1	1.4	0.18
	25	133	21.9	1.4	0.18
	37	138	20.5	1.4	0.18

JUNE 23

Station	DEPTH	HCO_3	SO_4	Cl	F
STATION 1	1	128	25.5	1.1	0.17
	5	126	25.5	1.2	0.17
	10	126	25.1	1.1	0.17
STATION 2	1	124	25.3	1.5	0.16
	5	126	25.3	1.1	0.16
	10	124	25.3	1.1	0.16
	15	135	27.7	1.2	0.17
	20	137	27.7	1.2	0.18
	30	139	28.0	1.3	0.18
	44	142	28.7	1.1	0.18
STATION 4	1	131	25.6	1.2	0.16
	5	124	25.0	1.2	0.16
	10	124	25.1	1.2	0.16
	15	132	27.3	1.3	0.17
	20	136	27.4	1.2	0.17
	30	139	28.0	1.3	0.17
	44	139	28.0	1.3	0.17
STATION 5	1	127	25.9	1.4	0.13
	5	127	26.1	1.1	0.15
	10	128	25.9	1.1	0.15
	15	136	26-7	1.3	0.17
	20	137	27.3	1.2	0.17
	30	139	27.7	1.4	0.17
	44			1.4	0.17

AUGUST 18

Station	DEPTH	HCO_3	SO_4	Cl	F
STATION 1	1	117	26.9	1.3	0.19
	5	124	27.9	1.3	0.19
	10	118	28.1	1.3	0.19
STATION 2	1	119	26.2	1.3	0.19
	5	119	26.9	1.3	0.19
	15	131	27.7	1.3	0.20
	30	129	30.0	1.3	0.20
	48	132	27.4	1.3	0.20
STATION 4	1	119	27.1	1.3	0.19
	5	119	27.7	1.3	0.19
	15	132	27.7	1.4	0.20
	30	136	27.1	1.4	0.20
	45	133	27.4	1.4	0.20
STATION 5	1	122	29.1	1.3	0.20
	5	122	27.5	1.3	0.20
	10	128	27.3	1.3	0.20
	25	135	28.0	1.4	0.20
	38	135	27.6	1.4	0.20

OCTOBER 18

Station	DEPTH	HCO_3	SO_4	Cl	F
STATION 1	1	121	27.8	1.4	0.18
	5	121	28.0	1.4	0.18
	10	127	27 8	1.4	0.18
STATION 2	1	118	28.0	1.4	0.18
	10	121	27.7	1.8	0.18
	20	134	27.7	1.5	0.19
	30	135	28.0	1.5	0.20
	48	135	27.2	1.5	0.19
STATION 4	1	118	28.0	1.4	0.18
	10	121	27.3	1.4	0.18
	20	134	27.5	1.4	0.19
	30	135	28.0	1.5	0.19
	44	135	27.2	1.5	0.19
STATION 5	1	116	28.0	1.4	0.18
	15	117	27.5	1.4	0.20
	18	134	27.8	1.5	0.20
	30	137	27.5	1.4	0.19
	39	138	26.9	1.5	0.19

DATA LISTING OF THE MAJOR ANION SPECIES FOR THE OKANAGAN MAIN VALLEY LAKES

(Parts Per Million)

OSOYOOS LAKE

	APRIL 17					JUNE 22					AUGUST 20					OCTOBER 17				
	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F	DEPTH	HCO_3	SO_4	Cl	F
STATION 1																				
	1	149	31.5	1.9	0.21	1	120	ND	7.3	0.17	1	121	28.4	1.5	0.20	1	137	28.7	1.5	0.21
	5	149	31.8	1.4	0.21	5	120	24.2	1.4	0.17	5	121	26.7	1.5	0.20	15	138	29.1	1.5	0.21
	10	150	31.2	1.4	0.21	10	122	24.1	1.2	0.17	10	143	29.4	1.6	0.21	17	138	29.1	1.5	0.21
	25	149	30.9	1.4	0.21	15	124	25.5	1.3	0.17	18	128	29.7	1.5	0.20	20	146	27.5	1.6	0.21
	35	150	31.2	1.6	0.21	20	129	26.4	1.2	0.19	30	146	29.6	1.6	0.21	35	145	27.6	1.5	0.21
						25	146	28.7	1.3	0.21	35	146	27.6	1.6	0.21					
						30	149	29.4	1.4	0.20										
						36	151	23.6	1.2	0.17										
STATION 3																				
	1	148	40.0	1.1	0.21	1	121	24.5	3.6	0.18	1	121	27.6	1.4	0.20	1	137	28.4	1.5	0.21
	5	145	31.5	1.5	0.21	8	121	23.6	1.4	0 18	5	123	26.2	1.4	0.20	15	131	28.1	1.5	0.21
	10	150	31.2	1.5	0.21	12	122	24.4	1.3	0.18	15	131	26.1	1.4	0.20	20	137	28.3	1.5	0.21
	25	151	29.7	1.5	0.21	20	149	30.5	1.5	0.21	20	144	28.1	1.6	0.21	25	140	28.3	1.5	0.22
	40	153	30.4	1.6	0.21	30	151	29.7	1.5	0.21	30	145	28.4	1.6	0.21	37	141	27.9	1.5	0.23
						40	151	29.4	1.5	0.21	41	143	27.6	1.5	0.21					
STATION 5																				
	1	145	31.2	1.6	0.21	1	122	24.4	1.2	0.18	1	123	27.9	1.4	0.20	1	134	28.1	1.6	0.23
	5	145	31.8	1.9	0.21	5	123	24.4	1.2	0.18	7	123	26.7	1.4	0.20	5	134	28.7	1.5	0.24
	12	149	31.2	1.6	0.21	10	123	25.9	1.2	0.18	11	131	23.4	1.3	0.20	11	137	28.4	1.5	0.24
						13	123	24.2	1.2	0.18										
STATION 6																				
	1	149	33.1	1.7	0.21	1	138	28.3	3.9	0.19	1	120	27.6	1.4	0.20	1	138	28.4	1.6	0.25
	5	151	33.0	1.6	0.21	5	132	27.0	1.4	0.19	5	119	27.9	1.4	0.21	5	138	28.1	1.6	0.25
	10	149	32.5	1.6	0.21	10	132	26.4	1.4	0.18	10	133	28.1	1.4	0.21	10	138	28.6	1.5	0.25
	20	151	33.8	1.6	0.21	23	150	31.4	1.8	0.21	15	133	26.4	1.4	0.21	22	140	28.6	1.5	0.25
											21	151	23.3	1.6	0.21					