

APPENDIX B

GEOLIMNOLOGY RESULTS

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APPENDIX B-1

SAMPLE STATION DEPTHS: SAMPLE COLORS: AND PERCENTAGE

GRAVEL-SAND-SILT AND CLAY

KALAMALKA LAKE

SAMPLE	DEPTH (in METERS)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
K-1	33.0	Grey	0.00	19.79	70.30	9.91
K-2	5.5	Grey	0.00	10.30	61.24	28.46
K-3	5.0	Grey	11.51	82.04	4.67	1.79
K-4	75.0	Grey	0.00	3.73	40.67	55.60
K-5	120.0	Brown	0.00	1.61	43.38	55.01
K-6	142.0	Grey	0.00	2.05	46.88	51.07
K-7	52.0	Grey	20.54	65.30	5.20	8.96
K-8	4.0	Brown	0.25	39.58	38.30	21.86
K-8a		Grey	0.51	18.83	51.48	29.18
K-9	4.0	Grey	0.00	18.26	58.70	23.00
K-10	1.5	Black	0.06	59.39	31.86	8.68

OSOYOOS LAKE

SAMPLE	DEPTH (in METERS)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
OS-1	34.6	Black	0.00	19.27	58.65	22.08
OS-2	4.0	Brown	0.17	16.85	70.73	12.25
OS-3	34.0	Black	0.00	0.20	70.81	28.99
OS-4	26.5	Black	0.00	5.57	64.92	29.52
OS-5	21.0	Black	0.00	13.35	48.01	38.64
OS-6	23.5	Black	0.00	0.00	75.96	24.04
OS-7	36.4	Black	0.00	0.89	50.00	49.12
OS-8	61.5	Black		INSUFFICIENT SAMPLE		
OS-9	15.0	Grey	0.00	9.72	52.06	38.21
OS-10	25.6	Grey	0.00	6.80	49.13	44.06
OS-11	26.0	Black	0.00	4.53	50.36	45.11
OS-12	6.0	Brown	40.58	57.78	1.04	0.59
OS-13	21.0	Black	0.00	4.15	65.60	30.25
OS-14	30.5	Black		INSUFFICIENT SAMPLE		
OS-15	14.5	Black	0.00	4.62	53.46	41.92
OS-16	5.0	Brown	4.94	67.00	20.33	7.73
OS-16a	----	Grey	0.00	5.46	54.12	40.41
OS-17	11.5	Brown	4.71	77.91	12.63	4.75
OS-18	15.0	Grey	0.00	48.23	36.00	15.68
OS-19	27.0	Black		INSUFFICIENT SAMPLE		
OS-20	13.0	Black	28.18	69.93	1.46	0.44
OS-21	18.0	Grey	0.00	2.38	65.66	31.96
OS-22	20.0	Black	0.00	8.51	60.44	31.05
OS-23	26.0	Black	0.00	3.22	64.79	31.99

WOOD LAKE

SAMPLE	DEPTH (in METERS)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
W-1	8.5	Grey	12.47	94.35	4.95	1.87
W-1a	8.5	Grey	0.00	43.83	32.27	23.90
W-2	27.0	Black	0.00	3.96	64.22	31.82
W-3	32.0	Black	0.00	2.52	59.21	38.27
W-4	32.0	Black	0.00	3.44	62.76	34.79
W-5	6.0	Black	0.00	31.93	58.98	9.09

SKAHA LAKE

SAMPLE	DEPTH (in METERS)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY	
S-1	6.5	Black	0.11	21.38	67.00	11.50	
S-2	14.0	Green	23.95	62.93	6.74	6.37	
S-3	34.0	Black	0.36	2.72	63.23	33.69	
S-4	39.0	Black	0.00	1.76	68.62	29.62	
S-5	19.0	Brown	0.19	75.23	16.11	8.48	
S-6	33.0	Brown	0.12	75.79	15.57	8.52	
S-7	22.5	Brown	0.00	54.27	34.11	11.62	
S-8	23.0	Brown	0.00	53.08	35.51	11.41	
S-9	33.0	Black	0.00	1.17	65.13	33.70	
S-10	18.0	Green	11.71	20.70	46.90	20.68	
S-11	5.0	Brown	0.00	91.17	3.16	5.67	
S-12	17.0	Brown	1.12	82.12	8.57	7.19	
S-13	48.5	Black	0.00	0.00	54.23	45.77	
S-14	52.0	Black	0.00	1.06	57.62	41.31	
S-15	16.0	Brown	0.45	84.71	7.61	7.23	
S-16	15.0	Brown	2.54	58.91	24.57	13.98	
S-17	44.0	Black	0.00	2.78	64.84	32.38	
S-18	54.0	Black	0.00	0.23	59.15	40.62	
S-19	49.5	Black	0.00	0.00	60.98	39.01	
S-20	14.0	Brown	0.00	29.88	56.59	13.52	
S-21	18.0	Black	0.00	79.02	12.59	8.39	
S-22	52.5	Black	INSUFFICIENT SAMPLE				
S-23	50.0	Black	0.00	1.34	62.11	36.55	
S-24	36.0	Black	0.00	5.89	61.41	32.70	
S-25	13.0	Black	0.56	82.16	11.04	6.25	
S-26	12.0	Brown	1.10	71.99	19.43	7.48	
S-27	30.0	Black	0.00	8.18	65.13	26.68	
S-28	38.0	Black	0.00	0.00	71.02	28.98	
S-29	42.5	Black	0.00	5.16	79.31	15.53	
S-30	45.0	Black	0.00	41.31	30.55	8.15	
S-31	14.5	Grey	0.00	56.41	39.14	4.25	
S-32	10.0	Brown	0.00	59.38	37.27	3.35	
S-33	13.0	Black	0.00	20.81	40.65	38.55	
S-34	13.4	Grey	0.00	15.90	57.90	26.46	
S-35	11.0	Black	0.00	30.06	50.63	19.30	
S-36	11.0	Brown	0.00	0.00	69.84	30.16	

OKANAGAN LAKE

SAMPLE	DEPTH (in METERS)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
OK-1	134.0	Grey	0.00	18.30	50.13	32.57
OK-2	91.0	Grey	0.00	25.38	54.04	20.57
OK-3	136.0	Grey		INSUFFICIENT SAMPLE		
OK-4	1.5	Brown	0.00	18.12	60.98	20.90
OK-5	4.0	Brown		INSUFFICIENT SAMPLE		
OK-6	7.5	Grey	0.00	59.66	40.34	0.00
OK-7	28.0	Grey	0.00	26.19	49.76	24.05
OK-8	69.0	Grey	0.00	11.50	59.60	28.90
OK-9	20.0	Grey	0.00	18.61	52.87	18.52
OK-9a	20.0	Brown	0.00	30.40	70.18	0.59
OK-10	17.0	Black	0.00	10.78	71.69	17.53
OK-11	115.0	Grey	0.00	2.63	55.42	41.95
OK-12	190.0	Grey		INSUFFICIENT SAMPLE		
OK-13	36.0	Grey	0.00	2.67	59.32	38.01
OK-14	80.0	Grey		INSUFFICIENT SAMPLE		
OK-15	26.0	Grey	0.00	3.39	50.26	46.35
OK-16	26.0	Grey	0.00	28.53	30.60	40.87
OK-17	19.0	Grey	0.00	0.00	50.25	49.75
OK-18	16.0	Black	0.00	26.68	49.46	23.87
OK-19	82.0	Grey		INSUFFICIENT SAMPLE		
OK-20	19.0	Black	0.00	2.11	58.12	39.78
OK-21	23.0	Brown	0.00	3.77	54.64	41.59
OK-22	9.0	Brown	0.13	28.12	39.71	32.04
OK-22a	9.0	Brown	0.00	16.75	43.45	39.79
OK-23	28.0	Grey	0.05	7.04	37.01	55.91
OK-24	28.0	Brown	0.00	13.58	42.73	43.69
OK-25	30.0	Brown	0.12	8.69	45.63	45.57
OK-26	69.0	Grey		INSUFFICIENT SAMPLE		
OK-27	35.0	Grey		INSUFFICIENT SAMPLE		
OK-28	112.0	Grey		INSUFFICIENT SAMPLE		
OK-29	57.0	Grey	0.00	3.71	47.41	48.88
OK-30	16.59	Brown	0.20	67.66	22.23	9.90
OK-31	235.0	Grey	0.00	4.54	51.18	44.28
OK-32	19.0	Grey	0.00	0.00	3.81	96.19
OK-33	145.0	Grey		INSUFFICIENT SAMPLE		
OK-34	182.0	Grey		INSUFFICIENT SAMPLE		
OK-35	184.0	Grey		INSUFFICIENT SAMPLE		
OK-36	197.0	Grey		INSUFFICIENT SAMPLE		
OK-37	102.0	Grey	0.00	6.08	57.78	36.14
OK-38	24.0	Brown	9.93	32.67	44.48	13.12
OK-38a	24.0	Brown	0.00	23.35	64.78	11.87
OK-39	27.5	Brown	0.00	68.67	25.63	5.70
OK-40	51.0	Grey	0.00	0.00	75.96	24.04
OK-41	85.0	Grey	0.00	0.20	62.11	37.69
OK-42	24.5	Grey	0.00	36.63	39.88	23.49
OK-43	50.0	Grey		INSUFFICIENT SAMPLE		
OK-44	31.0	Brown	0.00	71.21	21.69	7.09

APPENDIX B-2: TOTAL MAJOR ELEMENT CONTENT OF SAMPLES FROM OKANAGAN MAIN VALLEY LAKES

OSOYOOS LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
OS-1	3.29	1.91	4.57	2.20	0.24	0.14	64.25	2.31	0.29	10.55	0.52
OS-2	2.80	2.05	3.57	2.05	0.21	0.07	66.23	2.40	0.11	11.42	0.49
OS-3	2.81	1.80	5.48	2.61	0.26	0.16	62.46	2.39	0.26	10.90	0.58
OS-4	2.80	1.78	5.91	2.98	0.27	0.18	60.82	2.46	0.18	11.20	0.61
OS-5	2.52	1.71	6.05	2.75	0.22	0.16	62.35	2.43	0.22	10.77	0.59
OS-6	2.53	1.66	6.71	2.86	0.27	0.23	61.26	2.41	0.21	10.77	0.62
OS-7	2.65	1.66	6.93	2.98	0.27	0.27	60.43	2.46	0.26	11.02	0.64
OS-8	2.84	1.82	6.45	2.87	0.28	1.00	60.11	2.40	0.18	10.65	0.60
OS-8a	2.70	1.67	6.38	2.73	0.26	1.15	60.63	2.37	0.36	10.58	0.59
OS-9	2.53	1.99	5.98	2.63	0.21	0.15	62.81	2.43	0.51	11.23	0.58
OS-10	2.59	1.56	6.70	2.65	0.25	0.19	60.79	2.42	0.20	10.93	0.63
OS-11	2.48	1.59	6.45	2.56	0.22	0.17	62.50	2.41	0.28	10.76	0.60
OS-12	2.02	2.33	2.00	1.04	0.08	0.06	74.90	2.48	0.20	9.83	0.25
OS-13	3.50	1.35	5.84	2.51	0.25	0.13	61.48	2.16	0.76	9.36	0.58
OS-14	3.87	1.09	5.61	2.08	0.27	0.17	64.29	1.94	0.52	8.22	0.52
OS-15	2.94	1.44	6.30	2.50	0.23	0.13	61.05	2.22	0.47	9.78	0.59
OS-16	6.38	1.90	1.22	1.04	0.14	0.05	70.58	2.40	0.14	8.22	0.18
OS-16a	39.43	0.60	1.19	0.88	0.05	0.10	29.52	0.62	0.11	2.47	0.11
OS-17	2.80	1.80	2.49	1.21	0.12	0.07	72.67	2.39	0.09	9.97	0.29
OS-18	3.01	2.12	5.52	1.82	0.17	0.09	67.79	2.44	0.21	10.81	0.44
OS-19	3.33	1.40	5.13	2.26	0.26	0.15	64.50	2.27	0.49	9.60	0.54
OS-20	4.47	2.43	3.14	1.48	0.18	0.14	68.36	2.31	0.24	9.86	0.40
OS-21	2.49	1.44	5.79	2.68	0.22	0.13	61.91	2.55	0.27	11.03	0.62
OS-22	2.48	1.69	5.85	2.51	0.22	0.18	62.33	2.48	0.22	10.81	0.60
OS-23	3.00	1.43	5.13	2.15	0.23	0.16	65.45	2.24	0.45	9.36	0.54
OSC-1 25-30 cm.	2.30	1.74	6.85	2.87	0.21	0.40	62.20	2.29	0.25	10.55	0.16
OSC-1 55-60 cm.	2.33	1.75	7.13	2.99	0.24	0.39	61.60	2.33	0.14	10.87	0.62
OSC-1 80-85 cm.	2.27	1.90	7.49	3.18	0.27	0.36	61.06	2.32	1.14	10.88	0.65
OSC-1 110-115 cm.	4.70	1.03	5.40	2.01	0.29	0.17	63.70	1.88	0.70	7.95	0.52
OSC-2 0-5 cm.	4.69	1.13	5.45	2.08	0.29	0.18	63.93	1.92	0.71	7.90	0.52
OSC-2 25-30 cm.	2.71	1.36	6.39	2.37	0.24	0.17	61.93	2.26	0.49	10.10	0.56
OSC-2 45-50 cm.	3.02	1.30	6.51	2.40	0.21	0.17	62.61	2.06	0.59	9.38	0.56
OSC-2 70-75 cm.	2.28	1.18	7.29	2.40	0.38	0.17	62.56	1.94	0.62	8.93	0.55
OSC-2 90-95 cm.	1.99	1.21	6.45	2.31	0.18	0.13	64.76	2.08	0.76	9.64	0.53
OSC-3 0-5 cm.	2.94	1.39	5.33	2.32	0.24	0.18	63.98	2.35	0.41	9.84	0.56
OSC-3 30-35 cm.	2.02	1.28	5.99	2.46	0.17	0.12	64.24	2.40	0.42	10.34	0.60
OSC-3 55-60 cm.	2.00	1.40	5.77	2.34	0.17	0.11	65.00	2.41	0.28	10.72	0.59
OSC-3 70-75 cm.	1.99	2.23	3.69	1.37	----	0.08	68.32	2.21	0.09	11.29	0.37
OSC-3	2.08	1.68	5.18	2.67	0.19	0.13	62.89	2.67	0.17	11.76	0.62

SKAHA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
S-1	4.65	2.10	3.73	1.68	0.24	0.07	61.84	2.34	0.61	10.75	0.43
S-2	1.76	2.44	2.16	1.01	0.08	0.05	73.29	2.79	0.04	10.94	0.19
S-3	2.50	1.64	5.65	2.08	0.26	0.15	63.88	2.48	0.37	10.57	0.58
S-4	2.37	1.46	5.32	1.50	0.21	0.11	66.76	2.28	0.65	9.53	0.53
S-4a	2.65	2.35	5.42	2.56	0.23	0.13	61.36	2.87	0.09	12.74	0.57
S-5	2.08	2.17	2.93	1.24	0.12	0.06	72.22	2.54	0.11	10.32	0.31
S-6	2.58	2.14	3.07	1.44	0.17	0.09	71.59	2.28	0.04	10.60	0.37
S-7	2.51	2.12	3.90	1.61	0.17	0.08	68.98	2.44	0.22	10.59	0.44
S-8	2.02	2.20	3.09	1.56	0.13	0.06	70.68	2.72	0.08	10.66	0.37
S-9	2.39	1.54	5.54	1.90	0.26	0.21	66.33	2.40	0.29	9.71	0.55
S-10	2.85	2.21	6.83	2.13	0.23	0.29	63.66	2.51	0.11	11.40	0.51
S-11	1.69	2.24	1.70	1.01	0.07	0.04	76.03	2.66	0.06	9.69	0.22
S-12	1.95	2.20	2.56	1.25	0.10	0.06	74.30	2.65	0.08	9.98	0.30
S-13	2.09	1.94	5.55	2.12	0.20	0.22	64.18	2.86	0.16	11.81	0.52
S-14	2.09	1.62	5.48	1.90	0.22	0.25	66.25	2.52	0.23	10.11	0.52
S-15	1.82	2.46	2.58	1.20	0.09	0.04	72.16	2.87	0.33	11.02	0.25
S-16	2.09	2.41	3.82	1.76	0.15	0.08	69.26	2.80	0.05	11.13	0.42
S-17	2.33	1.84	5.16	1.99	0.23	0.17	64.34	2.63	0.21	10.76	0.55
S-18	2.14	1.72	5.26	1.88	0.20	0.21	66.28	2.65	0.28	10.67	0.53
S-18a	1.96	2.15	2.68	1.38	0.11	0.05	74.22	2.47	0.10	9.79	0.37
S-19	2.21	1.70	5.55	1.89	0.22	0.26	65.86	2.51	0.23	10.04	0.53
S-20	1.92	1.95	2.68	1.57	0.11	0.06	74.08	2.48	0.09	9.82	0.36
S-21	2.43	1.78	4.77	1.92	0.23	0.09	64.88	2.68	0.18	10.88	0.55
S-22	2.26	2.18	4.98	1.73	0.20	0.17	64.36	2.93	0.13	12.06	0.52
S-23	2.11	1.66	5.37	1.93	0.22	0.22	66.74	2.58	0.24	10.31	0.53
S-24	2.30	1.99	5.35	2.11	0.20	0.16	64.16	2.77	0.18	11.52	0.56
S-25	2.03	2.05	2.81	1.29	0.12	0.05	74.42	2.38	0.17	9.66	0.39
S-26	2.01	2.14	2.68	1.34	0.13	0.05	72.88	2.59	0.29	10.18	0.34
S-27	2.35	1.80	4.86	2.02	0.21	0.11	64.55	2.68	0.13	10.96	0.55
S-28	2.27	1.88	5.08	2.01	0.23	0.15	64.31	2.77	0.14	11.34	0.53
S-29	2.28	1.77	5.18	1.49	0.25	0.24	68.39	2.30	0.38	9.10	0.52
S-30	2.25	1.99	5.06	1.94	0.20	0.14	65.80	2.69	0.27	10.86	0.53
S-31	2.42	2.12	3.80	1.69	0.20	0.07	67.47	2.72	0.11	10.96	0.47
S-32	3.74	2.28	3.78	1.73	0.23	0.07	64.16	2.73	0.12	11.10	0.48
S-33	3.76	2.48	3.54	1.82	0.21	0.06	65.84	2.80	0.17	11.29	0.43
S-34	2.66	2.50	3.53	1.66	0.20	0.07	65.78	2.86	0.11	11.63	0.43
S-35	2.67	2.63	3.45	1.61	0.20	0.06	66.81	2.86	0.07	11.83	0.41
S-36	2.60	2.69	3.51	1.60	0.21	0.06	67.60	2.79	0.06	11.58	0.44

SKAHA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
SC-1 0-5 cm.	2.77	1.95	5.57	2.33	0.26	0.13	62.08	2.60	0.14	11.62	0.58
SC-1 35-40 cm.	2.66	1.38	6.31	1.88	0.23	0.14	64.89	2.33	0.45	9.97	0.57
SC-1 72-85 cm.	2.00	1.17	6.09	1.69	0.25	0.14	67.26	2.11	0.37	9.09	0.53
SC-1 81-86 cm.	1.97	1.45	5.99	1.66	0.24	0.13	67.49	2.16	0.44	9.17	0.54
SC-2 6-8 cm.	1.95	1.41	6.32	1.77	0.26	0.23	66.73	2.33	0.23	7.67	0.55
SC-2 32-34 cm.	2.00	1.39	5.95	1.73	0.23	0.21	65.96	2.45	0.19	10.03	0.53
SC-2	1.81	1.40	6.31	1.70	0.26	0.24	67.15	2.25	0.21	9.16	0.55
SC-2 72-75 cm.	1.71	1.14	5.93	1.39	0.26	0.24	67.15	2.24	0.21	9.16	0.55
SC-2 96-100 cm.	1.81	1.17	5.53	1.56	0.24	0.22	69.73	2.18	0.18	9.03	0.51

WOOD LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
W-1	3.54	3.16	1.46	1.11	0.14	0.06	70.27	2.94	0.19	10.55	0.18
W-1a	18.25	1.30	2.14	1.54	0.15	0.10	50.12	2.64	0.75	6.88	0.25
W-2	8.68	1.21	7.15	2.20	0.38	0.22	55.13	1.56	1.72	1.45	0.76
W-3	9.54	0.93	5.96	1.79	0.37	0.31	60.35	1.24	1.20	5.83	0.61
W-4	10.38	0.47	5.49	1.47	0.29	0.24	59.92	1.24	1.94	5.77	0.65
W-5	3.91	1.93	4.87	2.03	0.29	0.08	61.53	2.08	0.22	10.85	0.88
WC-1 0-5 cm.	12.16	0.94	5.32	1.32	0.30	0.36	56.93	1.19	1.96	5.50	0.56
WC-1 20-25 cm.	2.48	1.45	9.84	2.59	0.51	0.31	57.60	1.87	0.48	10.05	1.11
WC-1 45-50 cm.	2.29	1.20	10.21	2.67	0.42	0.31	57.67	1.89	0.42	10.00	10.2
WC-1 70-75 cm.	2.39	1.45	9.84	2.90	0.41	0.26	57.67	2.09	0.21	11.38	1.14
WC-1 85-90 cm.	2.26	1.16	8.80	2.19	0.29	0.25	59.96	1.73	1.29	9.05	0.99

KALAMALKA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
K-1	19.57	1.04	3.75	2.26	0.22	0.12	47.95	1.47	0.19	6.33	0.47
K-2	48.59	0.32	0.61	0.54	----	0.02	19.40	0.28	----	1.10	0.05
K-2a	49.67	0.31	0.55	0.52	----	0.02	19.70	0.25	----	1.30	0.04
K-3	13.71	0.71	4.07	2.60	0.23	0.47	59.26	1.34	0.57	5.34	0.37
K-4	21.80	0.88	4.11	2.37	0.25	0.14	44.12	1.57	0.09	6.59	0.49
K-5	26.14	0.86	3.02	1.82	0.19	0.24	43.18	1.22	0.13	4.80	0.32
K-5a	16.32	1.15	4.54	2.67	0.25	0.28	50.38	1.78	0.49	7.11	0.49
K-6	13.65	0.86	4.07	2.05	0.24	0.48	59.15	1.35	0.60	5.42	0.37
K-7	6.11	2.14	3.41	2.08	0.17	0.11	67.51	2.19	0.03	8.88	0.35
K-7a	2.99	1.54	8.31	4.30	0.20	0.20	54.17	3.35	----	13.43	0.65
K-8	50.59	0.21	0.51	0.57	----	0.04	17.02	0.23	----	0.89	0.02
K-8a	51.37	0.27	0.50	0.48	----	0.03	17.61	0.24	----	1.02	0.02
K-9	48.59	0.38	0.62	0.58	----	0.03	20.28	0.29	----	1.21	0.04
K-10	10.00	1.87	1.31	1.35	0.18	0.04	60.78	2.28	0.53	7.91	0.18
KC-1 0-5 cm.	26.67	1.14	2.87	1.78	0.18	0.41	51.02	1.18	0.36	4.48	0.27
KC-1 20-25 cm.	20.59	1.10	3.22	2.00	0.20	0.41	48.74	1.60	0.29	5.86	0.36
KC-1 40-45 cm.	17.37	1.18	3.90	2.26	0.23	0.52	55.32	1.34	0.44	5.31	0.37
KC-1 60-65 cm.	25.60	0.88	3.11	1.86	0.20	0.37	42.43	1.35	0.24	5.28	0.34
KC-1 85-90 cm.	5.76	1.02	6.51	2.15	0.50	1.03	60.65	1.85	0.67	7.70	0.54
KC-2 0-5 cm.	47.61	0.27	0.91	0.67	----	0.05	19.13	0.35	----	1.35	0.07
KC-2 20-25 cm.	49.55	0.20	0.40	0.43	----	0.02	18.81	0.20	----	0.76	0.01
KC-2 45-50 cm.	50.64	0.21	0.59	0.53	----	0.03	17.90	0.25	----	0.97	0.03
KC-2 70-75 cm.	50.57	0.20	0.46	0.56	----	0.03	17.90	0.20	----	0.82	0.02
KC-2 95-100cm.	46.64	0.47	0.46	0.68	----	0.02	24.35	0.22	----	0.95	0.02
KC-2 120-125 cm.	47.80	0.33	0.37	0.50	----	0.02	22.89	0.18	----	0.75	0.01

OKANAGAN LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
OK-1	2.51	2.08	3.92	1.89	0.17	0.11	67.38	2.55	0.10	11.37	0.49
OK-2	2.14	1.51	5.79	2.58	0.20	0.19	60.40	2.71	0.02	11.66	0.65
OK-3	2.05	1.42	6.37	2.71	0.23	0.42	63.80	2.54	0.07	10.86	0.65
OK-4	5.29	1.10	5.01	2.01	0.21	0.07	60.96	2.43	1.05	10.77	0.59
OK-5	2.30	1.80	3.52	2.06	0.16	0.05	69.35	2.55	0.16	10.71	0.49
OK-6	2.68	2.40	3.18	1.92	0.18	0.05	68.28	2.57	0.13	11.65	0.44
OK-7	2.14	1.83	5.61	2.05	0.18	0.14	65.06	2.56	0.01	11.53	0.55
OK-8	2.09	1.66	6.01	2.77	0.23	0.29	62.02	2.86	0.05	12.70	0.63
OK-9	2.07	1.77	5.27	2.73	0.17	0.08	64.89	2.94	0.02	12.24	0.06
OK-9a	3.56	2.77	3.19	1.28	0.12	0.06	66.08	2.47	0.31	11.19	0.43
OK-10	2.71	2.37	3.15	1.98	0.17	0.05	68.82	2.58	0.11	11.82	0.43
OK-11	2.21	1.34	6.81	2.55	0.35	0.73	62.58	2.50	0.04	10.59	0.69
OK-11a	2.46	1.46	8.69	2.62	0.72	0.31	59.61	2.45	0.04	10.67	0.69
OK-12	1.90	1.22	6.42	2.36	0.25	0.44	66.01	2.25	0.10	9.79	0.66
OK-13	2.42	1.51	6.73	2.75	0.28	0.13	61.37	2.66	0.08	11.36	0.76
OK-14	2.43	1.67	1.62	2.67	0.36	0.18	60.87	2.50	0.09	11.13	0.77
OK-15	8.34	2.12	6.60	3.49	0.34	0.14	52.58	2.47	0.39	10.15	0.67
OK-16	4.97	1.30	7.71	3.92	0.30	0.18	53.82	2.71	0.23	11.73	0.71
OK-17	5.16	1.31	7.08	3.13	0.30	0.12	54.32	2.62	0.17	11.24	0.71
OK-18	3.81	1.49	6.80	5.26	0.30	0.10	56.67	2.40	0.15	10.86	0.75
OK-19	2.04	1.13	7.61	2.92	0.27	0.22	60.82	2.38	0.37	10.55	0.68
OK-20	2.35	1.22	6.71	3.02	0.21	0.09	59.15	2.41	0.66	10.94	0.68
OK-21	2.20	1.24	6.80	2.95	0.22	0.10	60.32	2.36	0.61	10.77	0.69
OK-22	16.78	1.24	3.37	3.37	0.20	0.05	52.86	1.56	0.90	7.21	0.44
OK-22a	21.18	1.13	3.04	1.91	0.18	0.03	50.45	1.33	1.12	6.01	0.38
OK-23	2.13	1.17	6.84	3.88	0.23	0.11	60.46	2.43	0.28	11.06	0.71
OK-24	2.31	1.36	7.20	3.32	0.24	0.09	60.30	3.37	0.88	11.07	0.70
OK-25	2.21	1.27	6.66	3.13	0.22	0.10	59.46	2.54	0.29	11.51	0.69
OK-26	2.32	2.01	4.16	2.14	0.19	0.07	63.67	3.08	0.25	11.62	0.52
OK-27	2.09	1.21	6.84	3.04	0.23	0.12	61.52	2.38	0.19	10.82	0.69
OK-28	2.04	0.63	7.68	2.27	0.32	0.31	62.26	2.25	0.12	9.94	0.68
OK-29	2.35	1.51	6.61	3.25	0.26	0.11	59.84	2.52	0.22	11.54	0.74
OK-30	3.43	2.06	6.10	4.73	0.26	0.12	58.45	2.88	0.02	11.17	0.66
OK-31	1.87	1.03	7.07	2.62	0.30	0.56	64.62	2.05	0.09	8.97	0.65
OK-32	2.38	1.34	10.35	5.61	0.19	0.17	50.70	3.50	0.00	13.97	0.74
OK-33	2.12	1.17	7.71	3.03	0.31	0.42	61.55	2.24	0.00	10.25	0.70
OK-34	1.99	1.27	7.36	2.57	0.31	0.58	63.44	2.15	0.09	9.72	0.69
OK-35	1.92	1.13	7.27	2.52	0.29	0.54	64.73	2.08	0.08	9.41	0.67
OK-36	2.12	1.22	6.73	2.51	0.27	0.36	64.59	2.10	0.13	9.60	0.70
OK-37	2.39	1.47	7.11	2.63	0.29	0.25	62.29	2.30	0.13	10.60	0.75
OK-38	2.97	1.89	4.44	1.97	0.25	0.08	63.90	2.26	0.15	10.42	0.67
OK-38a	3.28	2.38	4.91	3.20	0.26	0.09	63.28	2.37	0.04	11.62	0.74
OK-39	2.84	2.50	3.42	1.49	0.20	0.07	67.92	2.50	0.04	11.30	0.46
OK-40	3.20	2.40	3.79	1.81	0.20	0.09	66.43	2.40	0.04	11.14	0.49

OKANAGAN LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
OK-41	3.00	2.04	5.83	2.23	0.28	0.15	62.65	2.35	0.10	11.37	0.77
OK-42	2.65	1.78	6.54	2.47	0.27	0.13	61.96	2.53	0.09	11.72	0.79
OK-43	INSUFFICIENT SAMPLES										
OK-44	2.71	1.69	5.66	7.78	0.24	0.11	63.68	2.23	0.03	11.09	0.66
OKC-1 0-5 cm.	2.08	1.45	6.29	2.76	0.21	0.34	63.69	2.61	0.10	11.13	0.66
OKC-1 20-25 cm.	2.02	1.36	6.31	2.46	0.21	0.30	64.46	2.42	0.05	10.63	0.63
OKC-1 45-50 cm.	1.90	1.56	6.39	2.59	0.23	0.30	65.43	2.43	0.06	10.50	0.63
OKC-1 60-63 cm.	2.41	1.41	9.55	3.48	0.32	0.23	53.06	2.02	0.02	14.73	1.25
OKC-1 97-100 cm.	1.93	1.28	6.21	2.01	0.25	0.38	66.37	2.17	0.08	9.41	0.64
OKC-2 0-5 cm.	1.90	1.22	5.42	2.36	0.25	0.44	66.01	2.25	0.10	9.79	0.66
OKC-2 20-25 cm.	2.01	1.10	6.74	2.29	0.25	0.28	65.12	2.24	0.07	9.89	0.67
OKC-2 45-50 cm.	2.04	1.35	6.90	2.43	0.27	0.26	64.41	2.33	0.07	10.43	0.69
OKC-2 70-75 cm.	2.22	1.31	6.51	2.36	0.24	0.23	65.24	2.23	0.10	10.21	0.71
OKC-2 90-95 cm.	2.17	1.40	6.54	2.37	0.26	0.24	65.62	2.26	0.10	10.22	0.71
OKC-3 0-5 cm.	1.93	1.02	7.17	2.67	0.29	0.47	64.57	2.05	0.11	8.97	0.66
OKC-3 20-25 cm.	1.92	1.10	7.24	2.67	0.31	0.36	64.52	2.12	0.07	9.83	0.67
OKC-3 45-50 cm.	1.92	1.15	6.72	2.39	0.29	0.31	66.14	2.05	0.09	9.40	0.66
OKC-3 70-75 cm.	1.89	1.25	6.85	2.50	0.30	0.33	66.09	2.02	0.07	9.38	0.68
OKC-3 95-100 cm.	1.97	1.17	6.70	2.48	0.28	0.30	66.85	2.05	0.06	9.60	0.70
OKC-3	1.94	1.07	6.55	2.47	0.28	0.28	67.10	2.02	0.09	9.28	0.67

APPENDIX B-3

ACID-EXTRACTABLE MAJOR ELEMENTS AND TOTAL MERCURY CONTENT OF SAMPLES FROM
OKANAGAN MAIN VALLEY LAKES

WOOD LAKE

	Hg	Mn	Fe	K	Mg	Ca
W-1	222	400	5600	550	1900	16500
W-1a	997	520	6200	710	3900	100000
W-2	861	1330	40700	2840	9700	54000
W-3	639	1860	36900	2780	3700	32000
W-4	2139	1600	27400	2160	7500	75000
W-5	162	600	25000	1370	5500	5000

KALAMALKA LAKE

	Hg	Mn	Fe	K	Mg
K-1	436	694	22700	4000	8800
K-2	863	113	2840	540	5700
K-2a	188	INSUFFICIENT SAMPLE			
K-3	102	301	8700	450	4000
K-4	350	773	24900	3150	9700
K-5	286	1480	19100	1650	8000
K-5a	290	1620	26950	3240	9500
K-6	1619	3210	24600	3150	5500
K-7	187	605	18400	1360	5100
K-7a	77	1210	45400	6050	16500
K-8	315	171	2885	670	5200
K-8a	230	60	870	400	5300
K-9	579	121	2885	540	5000
K-10	1874	174	5680	840	3100

OKANAGAN LAKE

	Hg	Mn	Fe	K	Mg	Ca	
OK-1	202	1200	25000	2250	6700	1000	
OK-2	112	1000	29500	2500	5100	1200	
OK-3	244	2500	33500	2950	9000	950	
OK-4	552	250	15500	2500	6900	25000	
OK-5	86	200	16000	1500	5400	1660	
OK-6	70	140	12500	1100	4000	1000	
OK-7	53	660	29500	2000	6700	1200	
OK-8	132	1900	32000	2600	8500	1500	
OK-9	75	370	27000	2700	8500	1000	
OK-9a	112	113	7500	700	2400	15000	
OK-10	150	365	20500	2000	6700	1500	
OK-11	231	4900	36000	3000	9100	1400	
OK-11a	112	222	48000	2600	5800	1500	
OK-12	290	2700	33000	2900	8500	1000	
OK-13	332	700	35800	2950	9500	1200	
OK-14	191	1000	41100	2750	9500	1200	
OK-15	409	600	32300	2550	11500	55000	
OK-16	777	1000	42500	3900	14000	25000	
OK-17	279	600	36500	3000	13500	24000	
OK-18	240	300	32000	1400	10800	6400	
OK-19	594	1100	36699	3250	11000	1400	
OK-20	589	300	28500	3250	10550	1900	
OK-21	555	300	27600	3900	10500	1500	
OK-22	442	100	10600	1150	4500	11400	
OK-22a	528	100	9400	1400	5400	17000	
OK-23	160	400	25000	2850	10400	4000	
OK-24	658	400	29200	2750	10400	1700	
OK-25	478	400	28200	2500	10400	1600	
OK-26	222	400	42100	11420	6300	5700	
OK-27			INSUFFICIENT SAMPLES				
OK-28	256	1900	42100	3750	11500	1500	
OK-29	252	700	34500	3500	13000	2400	
OK-30	119	650	39100	1900	15510	3000	
OK-31	196	3000	39100	3000	12100	1500	
OK-32	111	1250	41300	7500	24600	5200	
OK-33	256	2750	45700	3500	14100	2000	
OK-34	256	3500	42000	3250	11600	1500	
OK-35	265	3500	41500	3000	11200	1500	
OK-36	231	1400	41000	3000	10800	1500	
OK-37	222	1000	40000	3000	10300	1500	
OK-38	188	400	22600	1500	6200	1800	
OK-38a	34	400	26500	2000	6500	1700	
OK-39	128	300	17600	1150	4000	1700	
OK-40	65	350	19000	1500	4700	1700	
OK-41	120	950	36000	2400	7500	1600	
OK-42	120	840	36000	2700	9800	1600	
OK-43			INSUFFICIENT SAMPLES				
OK-44	102	570	29000	2400	7800	1500	

SKAHA LAKE

	Hg	Mn	Fe	K	Mg	Ca
S-1	1355	60	11700	1400	3300	14000
S-2	64	300	13800	640	2700	---
S-3	2181	900	29000	3300	8100	---
S-4	187	650	28000	3100	7300	---
S-5	60	260	16000	890	3300	---
S-6	43	220	13200	1000	2600	720
S-7	119	380	21000	1300	5100	---
S-8	94	390	20000	1700	5500	---
S-9	247	1500	29000	2800	7500	---
S-10	94	1500	29700	2000	4900	1080
S-11	247	140	9100	870	2300	---
S-12	60	350	15000	980	3700	---
S-13	230	1390	30300	3400	6600	760
S-14	1917	1750	31000	3100	7900	---
S-15	128	1300	28200	3000	5800	1040
S-16	68	450	24000	1400	6100	---
S-17	265	1150	29000	2800	7900	---
S-18	213	1170	28000	2900	5800	720
S-19	256	1850	32000	3500	8200	---
S-20	77	250	14000	1100	4000	---
S-21	196	450	27000	2800	7400	---
S-22	136	820	28000	3000	5700	720
S-23	196	1550	31000	3200	8000	---
S-24	1389	1000	28000	2900	7800	1300
S-25	119	216	31000	980	2900	700
S-26	170	177	10200	950	2000	560
S-27	247	702	26000	2500	6500	1500
S-28	1832	950	27400	2700	6500	1000
S-29	332	1500	28000	2800	7200	1700
S-30	302	950	28500	1600	4900	1400
S-31	196	350	20400	1500	4000	1300
S-32	307	205	19000	1600	4300	5400
S-33	332	300	19000	1700	4400	7900
S-34	187	300	19000	1700	4400	1500
S-35	111	300	19000	1800	4300	1200
S-36	111	510	27000	2400	7000	1800

OSOYQOS LAKE

	Hg	Mn	Fe	K	Mg	Ca
OS-1	162	820	22000	2100	6650	4600
OS-2	252	400	15000	1360	4650	700
OS-3	111	960	27300	3130	8700	1810
OS-4	128	1120	30600	3140	9000	1690
OS-5	316	920	31200	3030	9100	1730
OS-6	333	1400	38500	3930	11500	2380
OS-7	282	1500	36400	3500	10000	1730
OS-8	272	6440	38500	3940	11250	3450
OS-8a	INSUFFICIENT SAMPLES					
OS-9	325	840	28000	2700	8600	1250
OS-10	303	1060	34400	3400	1000	1730
OS-11	239	1000	35000	3300	10600	2200
OS-12	111	200	7500	500	2400	3300
OS-13	529	600	27500	3100	9100	7000
OS-14	769	980	27000	2900	8400	12500
OS-15	436	600	31000	3200	10400	4200
OS-16	179	200	60000	550	2600	52000
OS-16a	---	600	3500	600	6900	33000
OS-17	111	250	10500	600	2000	6200
OS-18	162	400	15000	1550	5100	9700
OS-19	INSUFFICIENT SAMPLE					
OS-20	111	400	10000	500	3200	21500
OS-21	436	720	30000	3000	9800	2100
OS-22	444	1100	31000	2900	9200	2000
OS-23	436	800	25000	3000	8100	5000

APPENDIX B-4

ACID-EXTRACTABLE PHOSPHORUS IN SAMPLES FROM THE OKANAGAN MAIN VALLEY LAKES

(Parts per Million)

STATION	OKANAGAN LAKE	SKAHA LAKE	OSOY00S LAKE	KALAMALKA LAKE	WOOD LAKE
1.	986	967	1086	647	787
1a.					609
2.	884	366	1086	58	753
2a.				44	
3.	1068	974	1121	416	753
4.	706	898	1141	672	698
4a.		1130			
5.	761	560	931	601	1085
5a.				788	
6.	870	756	1086	625	
7.	911	801	1048	515	
8.	1082	701	1083	41	
8a.			986		
9.	819	1164	1014	51	
9a.	379				
10.	911	1009	1062	471	
11.	1485	273	952		
11a.	3130				
12.	1181	522	351		
13.	1171	1033	826		
14.	1675	1078	1031		
15.	931	411	771		
16.	955	770	308		
16a.			232		
17.	1027	1123	490		
18.	1055	991	715		
18a.		577			
19.	1123	1043	823		
20.	678	553	862		
21.	705	1026	862		
22.	538	972	848		
22a.	387				
23.	744	1010	870		
24.	839	941			
25.	911	568			
26.	890	554			
27.	846	965			
28.	1404	1078			
29.	1007	1212			
30.	1086	1006			
31.	1103	928			
32.	675	1013			
33.	1394	876			
34.	1575	969			
35.	1473	969			
36.	1425	989			
37.	1339				
38.	1188				
38a.	990				
39.	1271				

NOTE - STATION NUMBERS for different lakes are differentiated by using first letter of lake name in front of number - e.g. S2 is Skaha Lake, Station 2. No results were obtained for Station No.43 and it has therefore been omitted.

STATION	OKANAGAN LAKE
40.	935
41.	1294
42.	1298
44.	1127

APPENDIX B-5

ORGANIC AND INORGANIC CARBON CONTENT OF SAMPLES FROM

OKANAGAN MAIN VALLEY LAKES

OKANAGAN LAKE						SKAHA LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON	SITE	ORGANIC CARBON	INORGANIC CARBON	SITE	ORGANIC CARBON	INORGANIC CARBON
OK-1	1.06	0.35	OK-38	264	0.23	S-1	3.84	0.31
OK-2	1.50	0.26	OK38a	0.87	0.05	S-2	0.71	-
OK-3	1.70	0.35	OK-39	1.05	0.07	S-3	3.39	0.14
OK-4	2.52	0.02	OK-40	1.77	0.08	S-4	3.16	0.13
OK-5	1.11	0.11	OK-41	1.39	0.60	S-4a	1.68	0.23
OK-6	0.37	0.15	OK-42	2.17	-	S-5	1.05	-
OK-7	1.02	0.15	OK-43	1.32	-	S-6	0.67	0.04
OK-8	1.79	0.06				S-7	1.38	0.19
OK-9	1.17	-	OKC-1			S-8	0.95	0.05
OK-9a	0.34	0.49	0-5 cm	2.08	0.15	S-9	2.87	0.09
OK-10	0.92	0.69	20-25 cm	1.84	0.14	S-10	0.71	-
OK-11	1.95	0.44	45-50 cm	2.43	0.05	S-11	1.05	-
OK-11a	1.85	0.15	60-63 cm	0.58	0.14	S-12	0.57	0.14
OK-12	2.19	0.05	97-100 cm	2.47	-	S-13	1.81	0.29
OK-13	2.52	0.12				S-14	2.25	0.13
OK-14	1.99	0.01	OKC-2			S-15	0.48	0.09
OK-15	3.16	1.50	20.25 cm	2.55	0.35	S-16	0.54	0.12
OK-16	2.67	0.80	45-50 cm	2.26	0.01	S-17	2.05	0.38
OK-17	2.04	1.13	70-75 cm	2.55	0.21	S-18	1.94	0.53
OK-18	3.55	0.26	90-95 cm	2.38	0.17	S-18a	-	0.66
OK-19	3.45	0.21				S-19	2.46	0.13
OK-20	5.01	0.09	OKC-3			S-20	0.71	-
OK-21	4.32	0.65	0-5 cm	3.14	1.07	S-21	1.90	0.23
OK-22	2.99	3.38	20-25 cm	2.73	0.37	S-22	1.86	0.05
OK-22a	2.76	4.63	45-50 cm	2.59	0.02	S-23	2.00	0.29
OK-23	4.74	0.22	70-75 cm	2.25	0.32	S-24	2.20	0.13
OK-24	3.53	0.07	95-100 cm	2.20	0.21	S-25	0.38	0.09
OK-25	3.67	0.27	105-110 cm	2.19	0.22	S-26	0.81	0.61
OK-26	2.51	0.06				S-27	1.96	-
OK-27	3.53	0.03				S-28	1.96	0.23
OK-28	3.09	0.36				S-29	2.54	0.37
OK-29	2.56	0.65				S-30	2.16	0.32
OK-30	1.69	0.01				S-31	1.43	-
OK-31	2.70	0.60				S-32	1.67	0.42
OK-32	0.53	0.14				S-33	1.48	0.46
OK-33	2.80	0.24				S-34	1.62	0.13
OK-34	2.90	-				S-35	1.09	0.14
OK-35	2.81	0.34				S-36	1.05	0.09
OK-36	3.58	0.16				SC-1		
OK-37	2.78	0.36				0-5 cm	2.10	1.03
						35-40 cm	3.07	0.17
						72-75 cm	3.45	0.06
						81-86 cm	3.12	0.06
						SC-2		
						6-8 cm	2.59	0.05
						32-34 cm	2.49	0.12
						50-52 cm	2.60	0.08
						72-75 cm	2.88	0.17
						96-100 cm	2.53	0.08

OSOYOOS LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
OS-1	1.84	0.80
OS-2	1.06	0.33
OS-3	2.61	0.11
OS-4	2.40	0.49
OS-5	2.40	0.46
OS-6	2.59	0.41
OS-7	2.69	0.41
OS-8	2.78	0.46
OS-8a	2.69	0.22
OS-9	2.30	0.06
OS-10	2.40	0.41
OS-11	2.78	0.13
OS-12	0.91	0.05
OS-13	4.47	0.21
OS-14	4.76	0.63
OS-15	4.73	0.47
OS-16	1.64	0.69
OS-16a	1.77	8.67
OS-17	0.77	0.46
OS-18	1.20	0.49
OS-19	3.77	0.36
OS-20	0.88	0.56
OS-21	3.17	0.33
OS-22	2.78	0.29
OS-23	3.27	0.28
OSC-1		
25-30 cm	2.71	0.47
55-60 cm	2.32	0.01
80-95 cm	2.12	0.19
110-115 cm	1.76	0.07
OSC-2		
0-5 cm	5.18	0.41
25-30 cm	3.58	0.76
45-50 cm	4.29	0.61
70-75 cm	4.22	0.12
90-95 cm	4.22	0.12
OSC-3		
0-5 cm	3.53	0.26
30-35 cm	3.58	0.02
55-60 cm	2.60	0.23
70-75 cm	1.13	0.07
90-95 cm	2.21	0.19

KALAMALKA LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
K-1	3.26	4.02
K-2	1.89	10.02
K-2a	1.89	10.17
K-3	2.59	3.26
K-4	3.54	4.42
K-5	290	5.35
K5a	2.46	3.18
K-6	3.59	3.02
K-7	0.84	0.60
K-7a	0.29	0.67
K-8	2.08	10.32
K-8a	1.73	10.22
K-9	2.33	10.34
K-10	4.54	1.74
KC-1		
0-5 cm	3.14	4.88
20-25 cm	3.29	4.39
40-45 cm	3.64	3.71
60-65 cm	2.79	5.61
85-90 cm	4.84	0.93
KC-2		
0-5 cm	2.83	10.06
20-25 cm	1.93	0.55
40-45 cm	2.08	10.36
70-75 cm	1.98	10.69
95-100 cm	1.59	10.36
120-125 cm	2.23	9.96

WOOD LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
W-1	1.30	0.56
W-1a	1.48	3.48
W-2	5.54	2.32
W-3	5.06	2.38
W-4	5.06	2.92
W-5	2.69	0.36
WC-1		
0-5 cm	6.09	2.54
20-25 cm	4.71	0.45
45-50 cm	4.14	-
70-75 cm	2.46	0.16
85-90 cm	5.58	0.88

APPENDIX B-6

CARBON CONTENT OF SUBSAMPLES FROM CORES FROM DEEPEST POINTS OF
EACH OF THE OKANAGAN MAIN VALLEY LAKES

OKANAGAN LAKE		
SITE SITE	ORGANIC CARBON	INORGANIC CARBON
0-1 cm	3.18	1.04
1-2 cm	2.84	0.58
2-3 cm	2.46	0.96
4-6 cm	2.51	0.54
9-11 cm	1.60	0.64
19-21 cm	1.89	0.68
32-35 cm	1.17	0.44
39-41 cm	1.27	0.53
90-92 cm	1.10	0.61

SKAHA LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
0-1 cm	4.09	1.13
1-2 cm	3.40	0.63
2-3 cm	2.29	0.89
4-6 cm	1.63	0.16
9-11 cm	2.27	0.28
19-21 cm	1.96	0.21
39-41 cm	2.48	0.21
81-83 cm	2.25	0.39

KALAMALKA LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
0-1 cm	3.36	6.30
1-2 cm	3.41	5.47
2-3 cm	2.91	6.07
4-6 cm	2.77	4.91
9-11 cm	4.14	1.52
19-21 cm	2.93	4.47
39-41 cm	3.85	3.17
73-75 cm	2.34	5.74
06-98 cm	3.83	2.79

WOOD LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
0-1 cm	7.92	4.68
1-2 cm	4.75	5.27
2-3 cm	2.16	7.76
4-6 cm	6.02	3.24
9-11 cm	3.03	5.23
19-21 cm	2.49	4.35
39-41 cm	2.78	2.49
73-75 cm	0.87	0.50
75-77 cm	1.47	1.17

OSOYOOS LAKE		
SITE	ORGANIC CARBON	INORGANIC CARBON
0-1 cm	3.17	0.77
1-2 cm	3.13	0.48
2-3 cm	3.03	0.66
4-6 cm	3.27	0.61
9-11 cm	2.62	0.37
19-21 cm	1.96	0.22
36-37 cm	1.12	0.23
39-40 cm	1.88	0.23
101-103 cm	1.33	0.11

APPENDIX B-7

DIATOM SUCCESSION IN CORES FROM SKAHA LAKE

CORE SK1			
RANK	0 - 8 cm	9 - 25 cm	26 - 105 cm
1.	Melosira italica	Melosira italica	Melosira italica
2.	Cyclotella comta	Cyclotella ocellata	Cyclotella ocellata
3.	Fragilaria crotonensis	Cyclotella comta	Fragilaria pinnata
4.	Asterionella formosa	Fragilaria pinnata	Fragilaria construens
5.	--	--	Cyclotella comta

CORE SK2			
RANK	0 - 8 cm	9 - 25 cm	26 - 45 cm
1.	Achnanthes lavanderi	Fragilaria construens	Fragilaria construens
2.	Fragilaria construens	Fragilaria pinnata	Fragilaria pinnata
3.	Fragilaria pinnata	Achnanthes lavanderi	Achnanthes lavanderi
4.	Stephanodiscus astraea	Achnanthes spp.	Achnanthes spp.
5.	Amphora ovalis	Amphora ovalis	Amphora ovalis