

APPENDIX B

Data Tables



Table 1: The total shore length of percentage of shore length along Okanagan Lake

	% of Shoreline	Shore Length (m)
Natural	43.24%	125085
Disturbed	56.76%	164226
Total		289311.0

Table 2: The percentage of natural and disturbed shore lengths within each of the different slope categories.

Slope	% of Total Shore Length	Total Shore Length (m)	Shore Length Natural (m)	Shore Length Disturbed (m)	% Natural	% Disturbed
Very Steep (60+)	15.0	43377	28137	15240	64.9	35.1
Steep (20-60)	30.0	86679	59294	27385	68.4	31.6
Moderate (5-20)	15.8	45619	19046	26574	41.7	58.3
Low (0-5)	36.3	104946	15095	89851	14.4	85.6
Bench	3.0	8689	3513	5176	40.4	59.6
Total	100.0	289311	125085	164226	43.2	56.8

Table 3: The total length of natural and disturbed shorelines and their associated land uses around Okanagan Lake

	% of Shoreline Length	Shoreline Length (m)	Natural Shore Length (m)	Disturbed Shore Length (m)	% Natural	% Disturbed
Agriculture	8.8%	25516	8806	16710	34.5%	65.5%
Commercial	1.9%	5429	830	4600	15.3%	84.7%
Conservation	0.0%	0	0	0	0.0%	0.0%
Forestry	0.0%	0	0	0	0.0%	0.0%
Industrial	1.1%	3146	237	2908	0.0%	0.0%
Multi Family	1.1%	3115	391	2724	12.6%	87.4%
Natural Area	0.2%	577	572	4	0.0%	0.0%
Park	14.0%	40375	36722	3653	91.0%	9.0%
Recreation	3.3%	9584	2469	7114	25.8%	74.2%
Rural	25.6%	74006	56015	17991	75.7%	24.3%
Single Family	32.3%	93322	14181	79141	15.2%	84.8%
Urban Park	5.4%	15549	2582	12966	16.6%	83.4%
Transportation	6.1%	17765	1172	16593	6.6%	93.4%
Institutional	0.3%	929	929	0	0.0%	0.0%
Total	100.0%	289311.0				



Table 4: The total length of natural and disturbed shoreline and associated percentages within the different shore types that occur around Okanagan Lake

Shore Type	% of Total	Total Shoreline Length (m)	Natural Shore Length (m)	Disturbed Shore Length (m)	% Natural	% Disturbed
Cliff / Bluff	23.3%	67271	44003	23267.5	65.4%	34.6%
Rocky Shore	14.5%	41904	30178	11725.4	72.0%	28.0%
Gravel Beach	43.3%	125375	39960	85415.1	31.9%	68.1%
Sand Beach	7.1%	20675	903	19772.3	4.4%	95.6%
Stream Mouth	2.8%	8105	2067	6038.3	25.5%	74.5%
Wetland	8.3%	24031	7988	16043.0	33.2%	66.8%
Other	0.7%	1965	0	1964.8	0.0%	100.0%
Total	100.00%	289325				

Table 5: The total shoreline length and percentage that has aquatic, submergent, emergent, and floating vegetation along Okanagan Lake

Type	% of Total Shoreline Length	Shoreline Length (m)
Aquatic Vegetation	19.5%	56461
Submergent Vegetation	2.1%	6156
Emergent Vegetation	17.4%	50358
Floating Vegetation	0.3%	964

Table 6: The total number and density (# per km) of different shoreline modifications occurring around Okanagan Lake

Type	Total #	# Per km
Docks	2718	11.43
Groynes	939	3.95
Boat Launch	222	0.93
Retaining Walls	1799	7.56
Marinas	41	0.17
Marine Rails	118	0.50



Table 7: The approximate shoreline length that has been impacted by substrate modification, road and railways, and retaining walls along Okanagan Lake

Category	% of Shoreline	Shorelength (m)
Roadway	8%	22668.9
Retaining Wall	20%	58461.0
Railway	0%	0.0
Substrate Modification	47%	137061.7
Total Shore Length		289311.0

Table 8: The Level of Impact around Okanagan Lake (High > 40%, Moderate (10-40%), Low (<10%), None (0%))

Level of Impact	% of Shoreline	Shore Length
High	58.47%	169166
Moderate	15.37%	44455
Low	24.97%	72251
None	1.19%	3439
	Shore Length	289311.0

Table 9: The shore length and percentage of shoreline areas classified as having High, Moderate, or Low Juvenile Rearing Value on Okanagan Lake.

Juvenile Rearing Category	# of Segments	Shore Length (m or %)				Total
		Natural (m)	Natural (%)	Disturbed (m)	Disturbed (%)	
High	141	74018.0	52.2%	67777.0	47.8%	141795.6
Moderate	153	43767.6	34.0%	84879.8	66.0%	128647.8
Low	20	7299.6	38.7%	11568.9	61.3%	18868.9
						289312.3

Table 10: The length of natural and disturbed shorelines within the different Okanagan Large Lakes Protocol Kokanee Shore Spawning areas.

Black		Red		Yellow		No Colour	
Natural	Disturbed	Natural	Disturbed	Natural	Disturbed	Natural	Disturbed
79.6%	20.4%	61.5%	38.5%	30.7%	69.3%	34.8%	65.2%
28850	7397	24291	15239	17413	39313	54531	102277

Table 13: The shoreline that is natural and disturbed (m and %) within each of the different AHI rankings.

AHI Rank	2004				AHI Rank	2010			
	Natural		Disturbed			Natural		Disturbed	
	m	%	m	%		m	%	m	%
Very High	35656.3	85.60	5998.97	14.40	Very High	60181.27	70.5	25172.04	29.5
High	7	%	8	%	High	50378.74	51.7	47048.84	48.3
High	19692.2	48.67	20767.1	51.33	High	50378.74	%	47048.84	%
Moderate	8	%	1	%	Moderate	13833.06	17.4	65469.71	82.6
Moderate	6427.59	18.28	28730.5	81.72	Moderate	13833.06	%	65469.71	%
Low	9	%			Low	642.2212	3.0%	21023.04	97.0
Low	44.5996		7798.9	99.43	Low	642.2212	3.0%	21023.04	%
Very Low	8	0.57%	3755.17	97.50	Very Low	49.95567	0.9%	5512.129	99.1
Very Low	96.0935		9	%	Very Low	49.95567	0.9%	5512.129	%