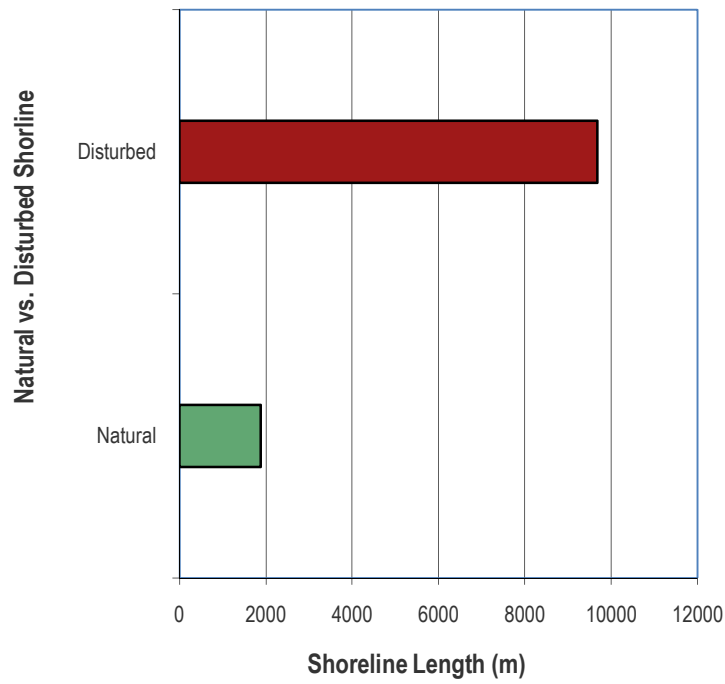


# **APPENDIX M**

## **District of Peachland Results**



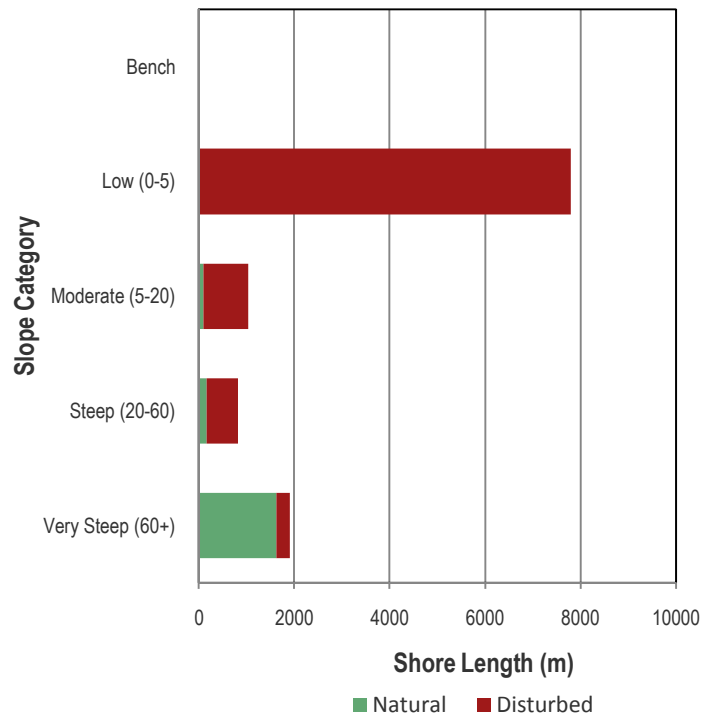


**Figure 1:** The percent of natural and disturbed shoreline.

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

	% of Shoreline	Shore Length (m)
Natural	16.31%	1886
Disturbed	83.69%	9675
Total		11560.4



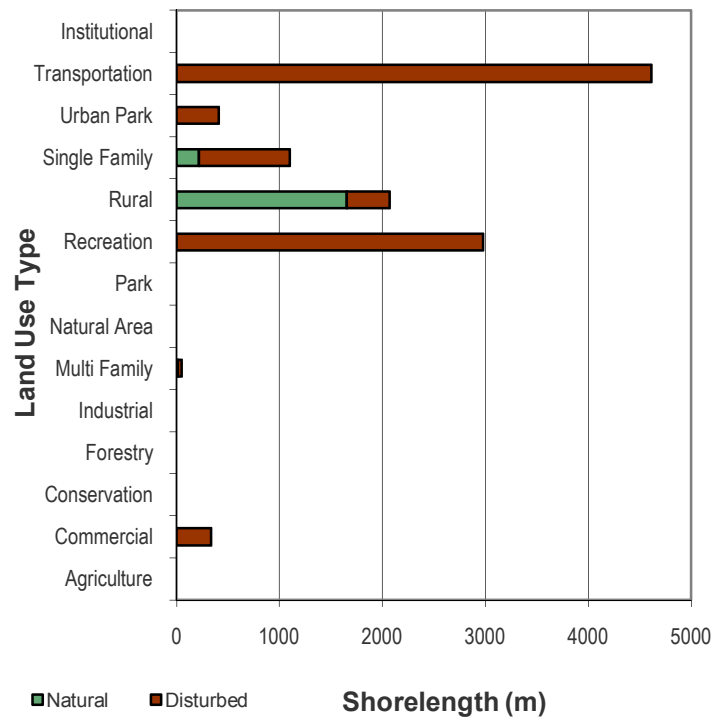


**Figure 2:** The length of natural and disturbed shorelines in each slope category.

**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+)	16.5	1910	1623	286	85.0	15.0
Steep (20-60)	7.1	817	163	654	20.0	80.0
Moderate (5-20)	8.9	1030	99	931	9.6	90.4
Low (0-5)	67.5	7804	0	7804	0.0	100.0
Bench	0.0	0	0	0	0	0
<b>Total</b>	<b>100.0</b>	<b>11560</b>	<b>1886</b>	<b>9675</b>	<b>16.3</b>	<b>83.7</b>



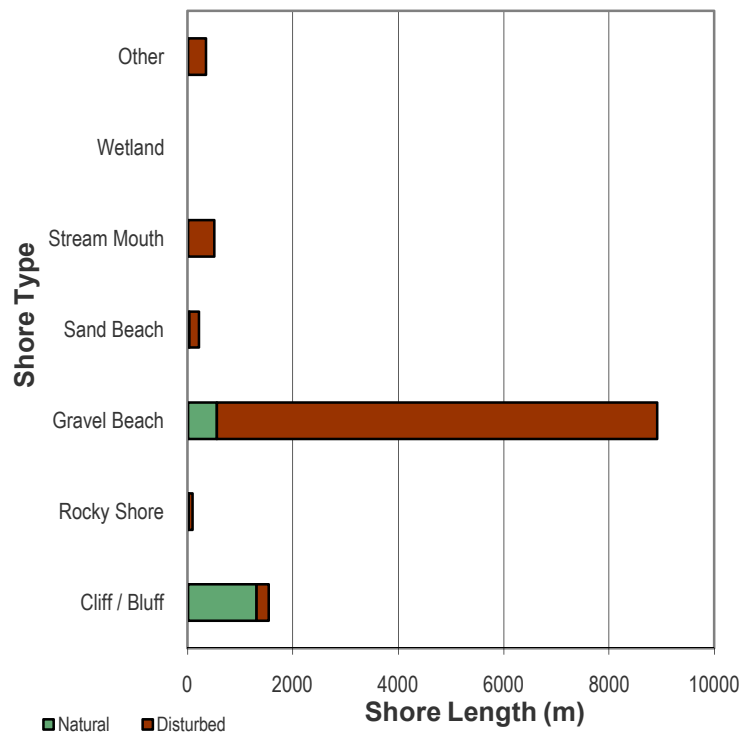


**Figure 3:** The length of natural and disturbed shoreline in each land use category

**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	0.0%	0	0	0	0	0
Commercial	2.9%	335	0	335	0.0%	100.0%
Conservation	0.0%	0	0	0	0.0%	0.0%
Forestry	0.0%	0	0	0	0.0%	0.0%
Industrial	0.0%	0	0	0	0.0%	0.0%
Multi Family	0.4%	49	10	40	20.0%	80.0%
Natural Area	0.0%	0	0	0	0.0%	0.0%
Park	0.0%	0	0	0	0	0
Recreation	25.8%	2977	0	2977	0.0%	100.0%
Rural	17.9%	2073	1656	417	79.9%	20.1%
Single Family	9.5%	1099	220	879	20.0%	80.0%
Urban Park	3.5%	410	0	410	0.0%	100.0%
Transportation	39.9%	4616	0	4616	0.0%	100.0%
Institutional	0.0%	0	0	0	0.0%	0.0%
<b>Total</b>	<b>100.0%</b>	<b>11560.4</b>				



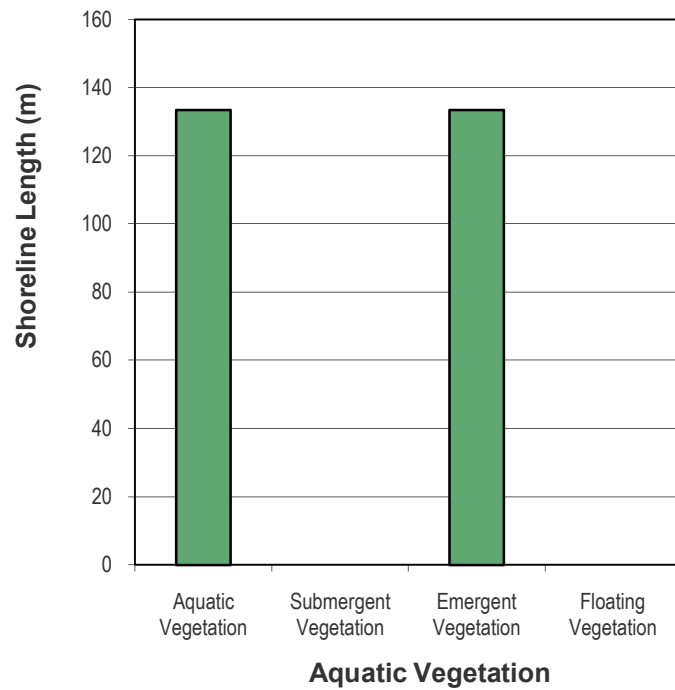


**Figure 4:** The length of natural and disturbed shoreline in each shore type category

**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	13.2%	1528	1299	229.2	85.0%	15.0%
Rocky Shore	0.7%	82	16	65.4	20.0%	80.0%
Gravel Beach	77.0%	8907	551	8355.7	6.2%	93.8%
Sand Beach	1.8%	206	20	186.2	9.6%	90.4%
Stream Mouth	4.4%	503	0	503.2	0.0%	100.0%
Wetland	0.0%	0	0	0.0	0	0
Other	2.9%	335	0	335.1	0.0%	100.0%
<b>Total</b>	<b>100.00%</b>	<b>11560</b>				



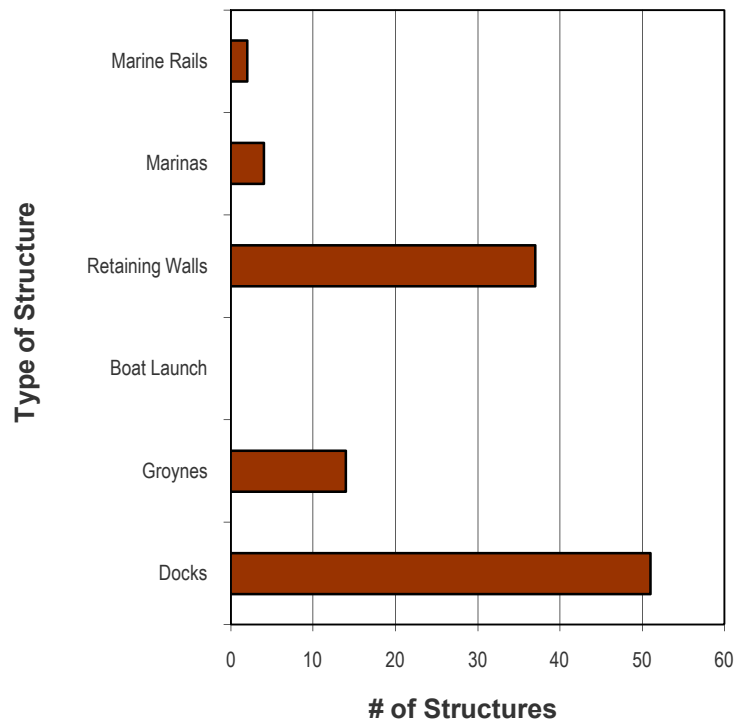


**Figure 5:** The shore length of each different type of aquatic vegetation.

**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	1.2%	133
Submergent Vegetation	0.0%	0
Emergent Vegetation	1.2%	133
Floating Vegetation	0.0%	0



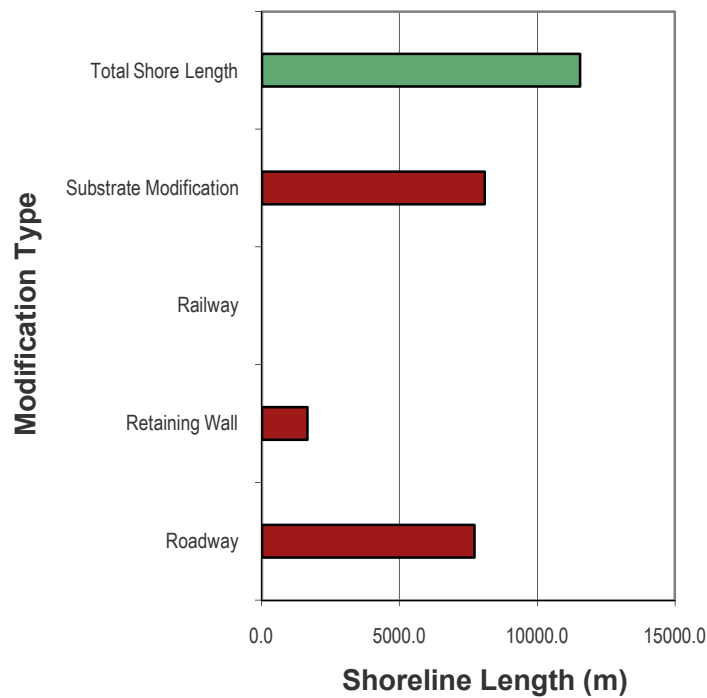


**Figure 6:** The total number of different types of modifications on Okanagan Lake

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

Type	Total #	# Per km
Docks	51	4.41
Groynes	14	1.21
Boat Launch	0	0.00
Retaining Walls	37	3.20
Marinas	4	0.35
Marine Rails	2	0.17





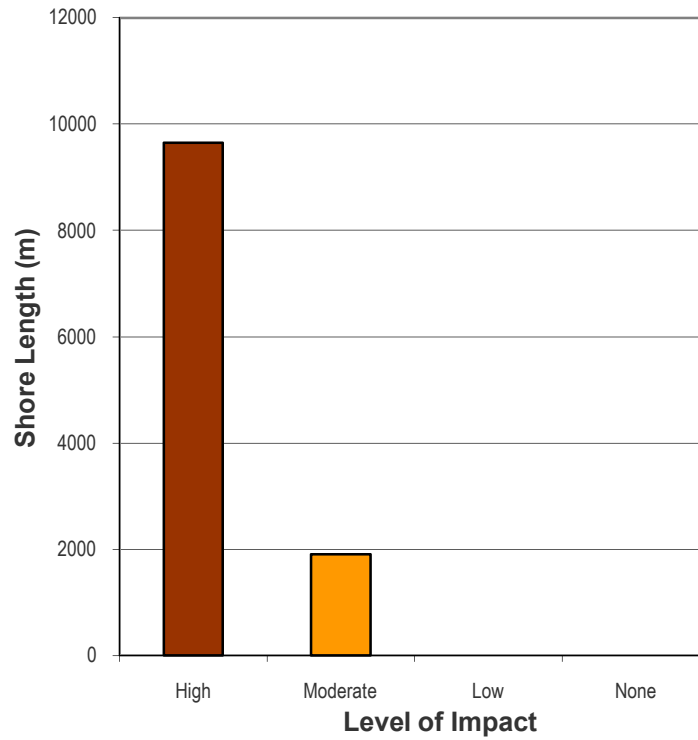
. **Figure 7:** The shore length of different shore modifiers were observed.

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	67%	7716.3
Retaining Wall	14%	1643.9
Railway	0%	0.0
Substrate Modification	70%	8083.2
Total Shore Length		11560.4





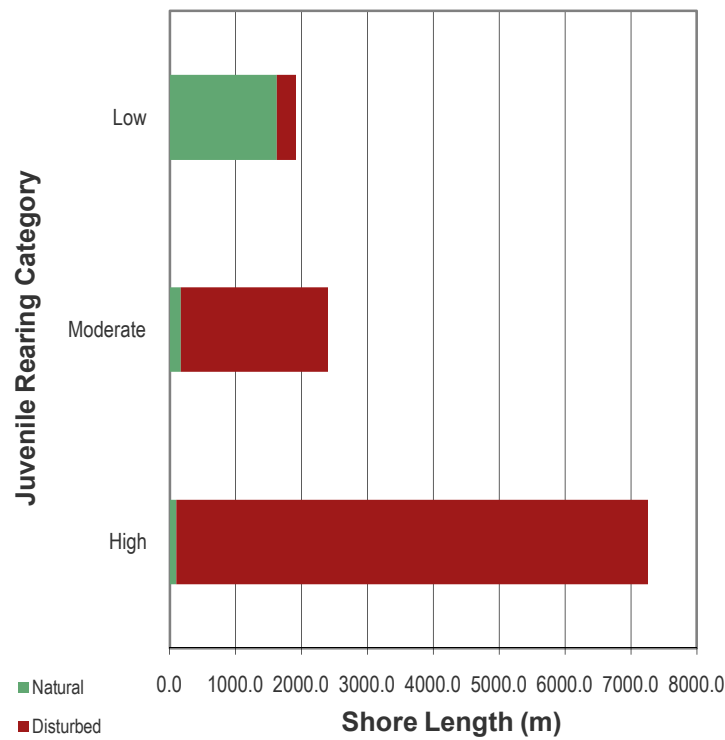


. **Figure 8:** The shore length of different levels of impact on Okanagan Lake..

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	83.48%	9651
Moderate	16.52%	1910
Low	0.00%	0
None	0.00%	0
Shore Length		11560.4



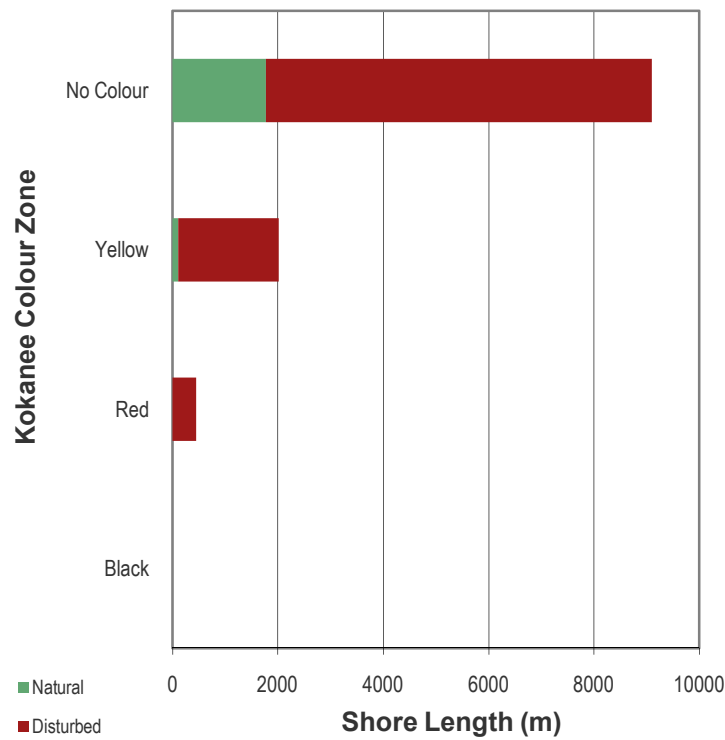


**Figure 9:** The natural and disturbed shore length of areas classified as having and High, Moderate, or Low Juvenile Rearing ranking.

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	7	98.9	1.4%	7154.2	98.6%	7253.2
Moderate	5	163.5	6.8%	2234.0	93.2%	2397.6
Low	1	1623.3	85.0%	286.5	15.0%	1910.6
						11561.4



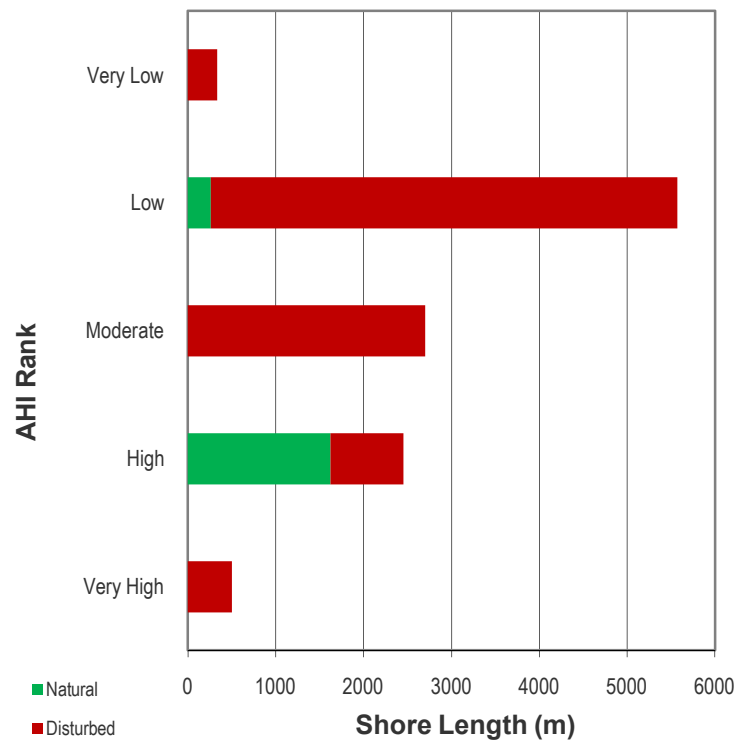


**Figure 10:** The length of natural and disturbed shoreline in the different shore spawning kokanee zones.

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
0	0	0.0%	100.0%	5.5%	94.5%	19.5%	80.5%
0	0	0	449	111	1905	1775	7321





**Figure 11:** The length of natural and disturbed shoreline in the different AHI rankings.

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

AHI Rank	Natural		Disturbed	
	m	%	m	%
Very High	0	0.0%	503.1741675	100.0%
High	1623.284152	66.2%	828.1873874	33.8%
Moderate	0	0.0%	2699.933449	100.0%
Low	262.3905808	4.7%	5308.312174	95.3%
Very Low	0	0.0%	335.1389095	100.0%

