



- The importance of the lake
- Eight identified changes
- Support for Kalum LRMP
- Questions











The Overall Value

\$101 million annual benefit

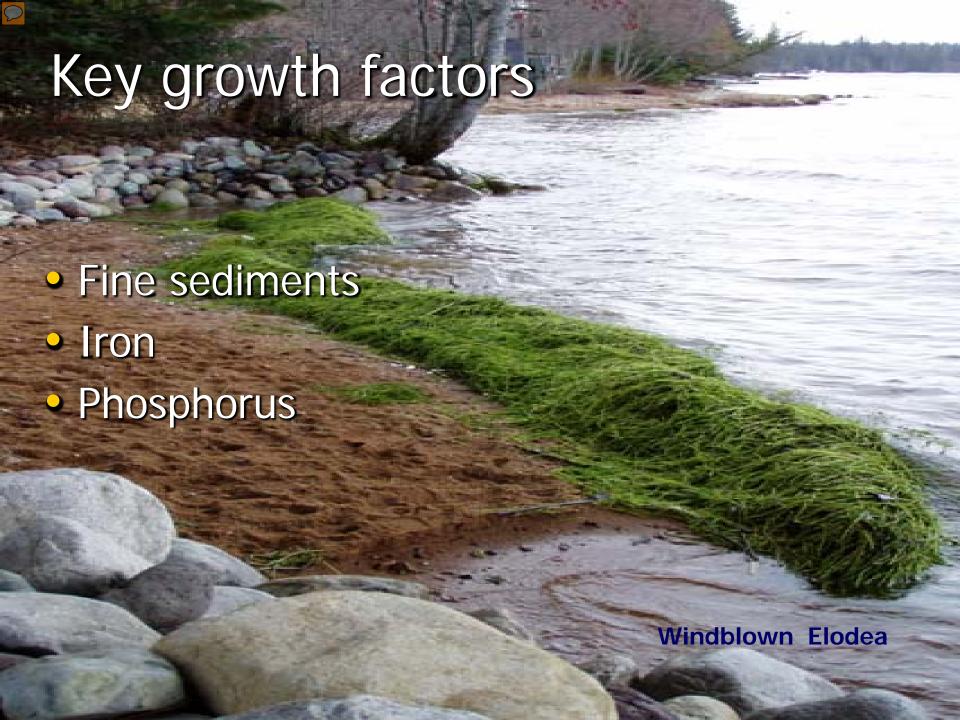
W. Sinclair 1974 (in year 2000 dollars)

\bigcirc

Previous Studies

- 1950 Brett: Physical Limnology of Lakelse
- 1965 Coburn: Scully & Williams sockeye
- 1968 Foerster: The Sockeye Salmon
- 1974 Sinclair: Socio-Economics of Lakelse
- 1976 Abelson: Lakelse Lake Water Quality
- 1978 Cleugh: Chem/Bio/Physics of Lakelse
- 1984 Greater Terrace Settlement Plan
- 1986 Warrington: Lakelse Aquatic Vegetation
- 1986 McKean: Lakelse Water Quality
- 1994 Shortreed: Study of Skeena sockeye lakes
- 2003 Gottesfeld: Conserving Lakelse Fish.
- 2003 Kokelj: Lakelse Management Plan









Recovery Plan Stakeholders

- Kitselas First nations
- Terrace Salmon Enhancement Society
- Lakelse Watershed Society
- Ministry of Environment
- DFO
- Ministry of Forests/BC Timber Sales

Recovery Activities

- Sockeye counts
- Disease sampling
- Egg survival tests
- Hatchery Creek restoration
- Scully Creek flow

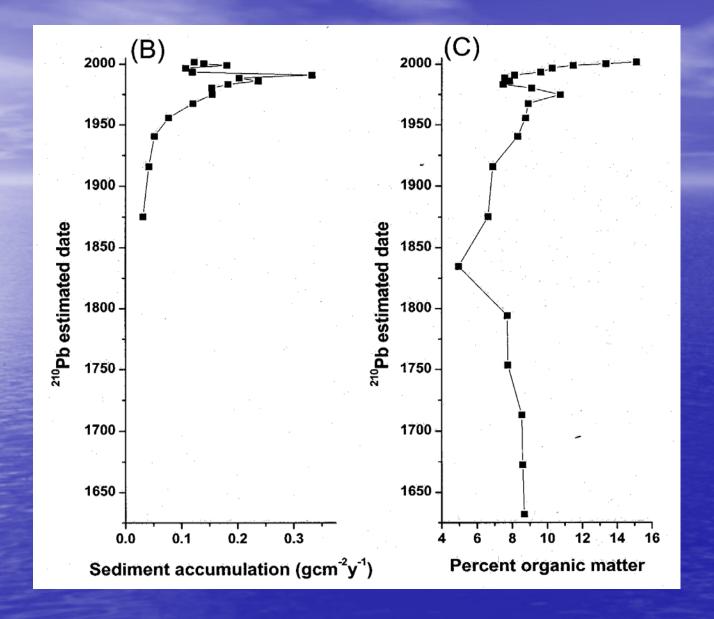




Concern 3 - Sediment

- Disturbed east-side Creeks
- Shoreline changes
- Wave action





Deep-site Sediment Core





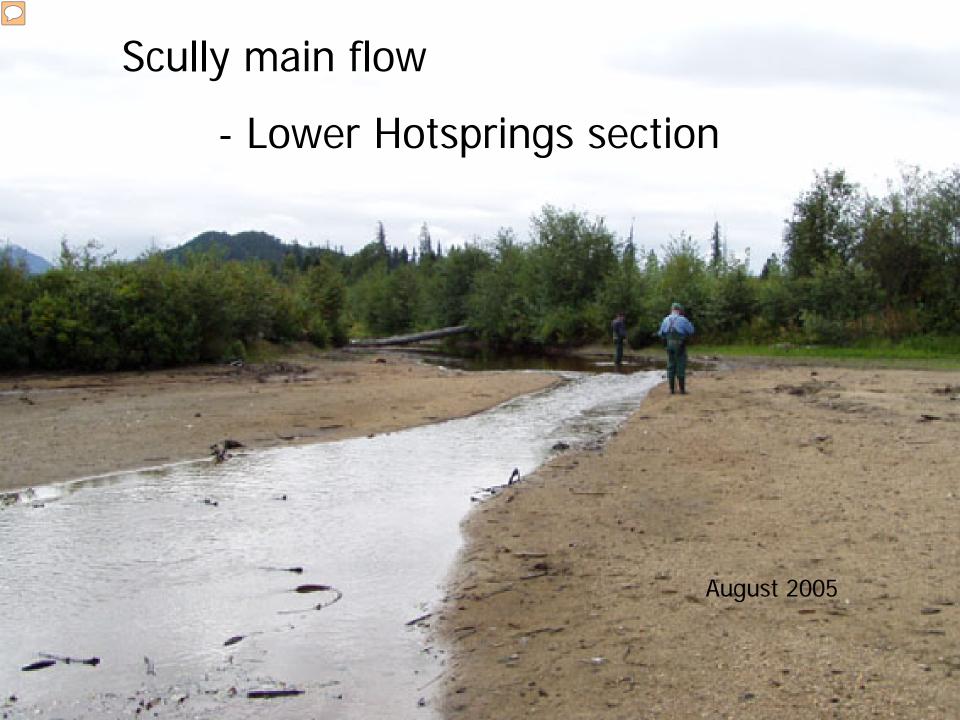


Phosphorus inputs to Lake

	Max.	<u>Av.</u>
Eel Creek	34	25
Prov. Park Creek	28	23
Mountain Creek	18	12
Williams Creek	17	11
Whalen Creek	14	6

(Micrograms/L; BC Guideline is 10)







Scully - impacts

- Sockeye loss in original creek due to:-
 - -Low water in August
 - -More beaver dams
 - More bear predation
- Poor egg survival in main flow
- Less flushing action in original creek
- Heavy lake silting from bank failures

Concern 6 – Further Logging

- Unstable fans on Williams & Scully
- Additional sediment, iron or phosphorus to lake
- Increasingly difficult terrain
- Adverse hydrological impacts
- Cumulative impacts

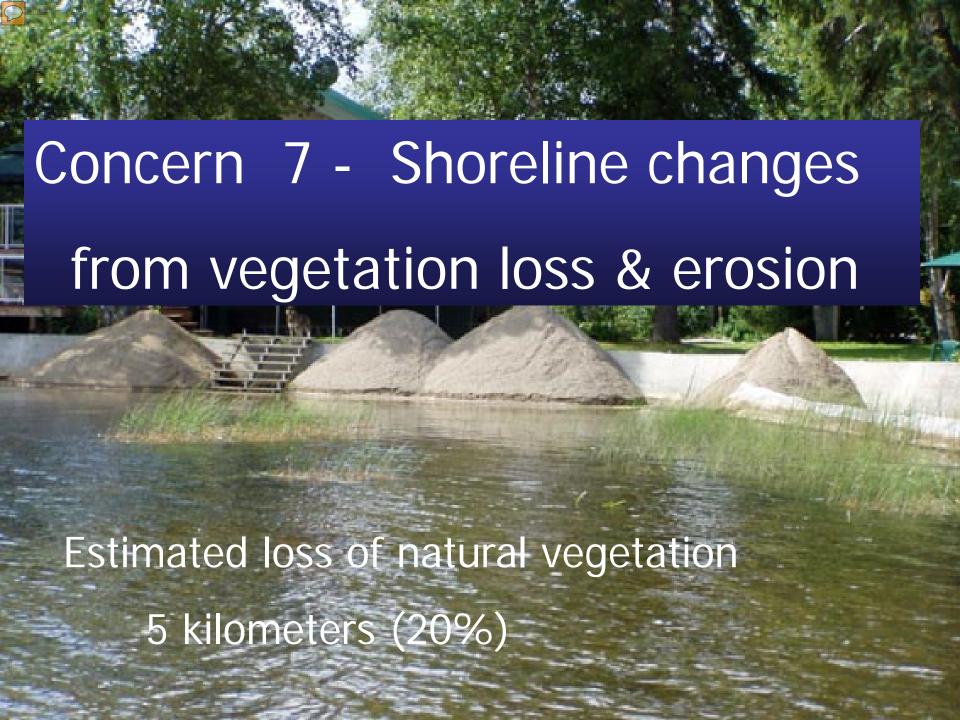




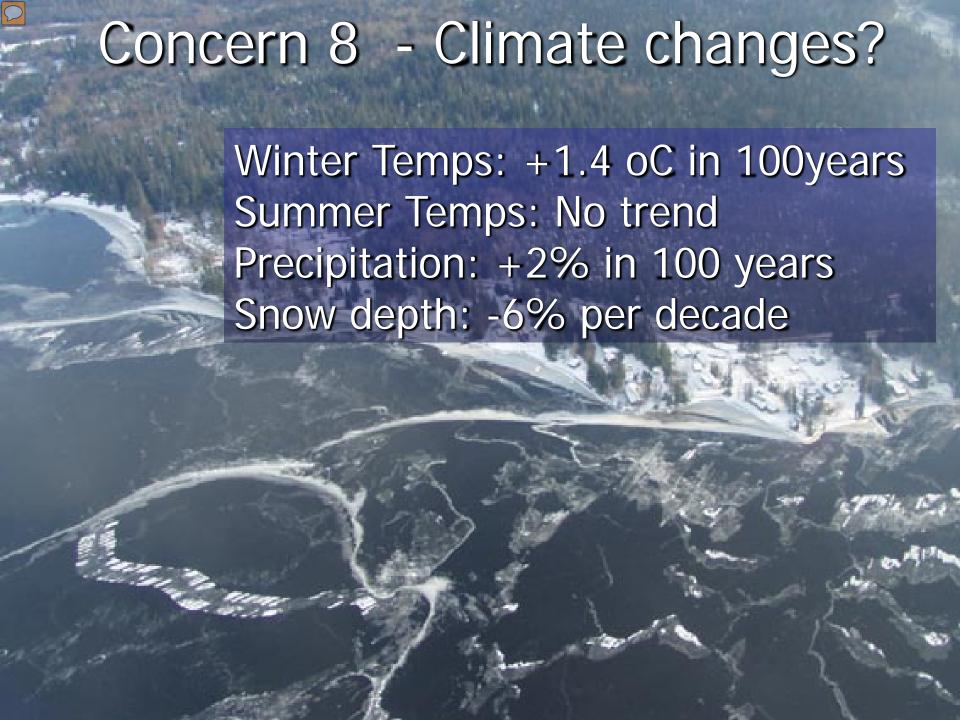


Inter-agency cooperation

- MOF part of Sockeye recovery plan
- Detailed further sediment studies on Williams completed
- MOE sediment transport study on major creeks planned









- Good understanding of Elodea
- Comprehensive Water Quality data
- Lake Management Plan (2003)
- Sockeye Recovery Plan (2005)
- RDKS Sewage Studies (2004-2006)
- Sediment studies on Williams (2005/06)
- Input to KLRMP (May, 2006)

