

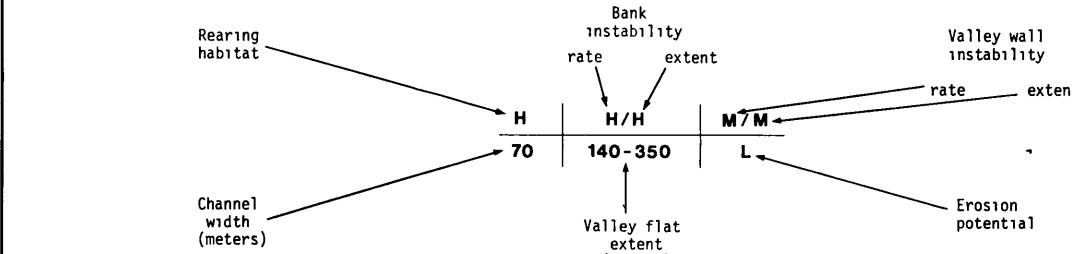
# STREAM REACH EVALUATION

**NO. 12**      **93P/3**

## LEGEND

### Explanation of Map Symbols

The stream reach evaluations presented on this map have been derived by the use of the AQUATICS BIOPHYSICAL BASE MAP (No. 11) and take two forms. Aquatic interpretations are presented in tabular form for each stream reach (see Data Sheet for Stream Reach Evaluation below). Interpretations are also presented using map symbols as follows:



## Data Sheet For Stream Reach Evaluation

REACH BASE DATA							REACH SYMBOL VALUES									
Stream	Reach No	Flood/Slide	Debris	Pool	Beaks	Canopy	Over Bank	Rearing Habitat	Lateral Instability	Valley Flat	Symbol	Max Width (meters)	Channel Width (meters)	Valley Floor Elevation (meters)	Erosion Potential	
Flatland	1	H	L	M	M	H	L	H	N/L	N/A	H	M	35	30	70-205	M
	2	L	M		M	L	L	L	N/L	N/A	H	M	30	30	50-60	
	3	L	M		M	L	-	-	N/A	N/A	M	N/A	30	30	50-125	
	4	L	M	M	M	L	H	H	M/H	M	H	M	10	> 10	> 50	
	5	M	M	M	M	L	H	H	M	M	M	L	10	10	40-50	
Bullnose	1	L	M	M	L	-	-	-	N/A	N/A	M	M	50	50	100-175	
	2	L	M	M	L	O	O	O	N/L	M	H	L	25	25-50	25-50	
	3	L	M	M	L	O	O	O	N/L	M	H	L	25	25-50	25-50	
	4	H	M	M	L	-	-	-	M/H	M	H	L	25	> 125	> 125	
	5	L	M	M	L	L	L	L	N/H	M	M	M	10	10	40-50	
	6	L	H	-	H	-	-	-	L	M	M	M	6	6	12-30	
W Bull-nose	1	M	M	M	H	L	H	H	M	M	M	10	20-50	H		
Two Creek	1	M	M		O	L	-	M	H	H	M	20	40-100	L		
	2	O	L		L	L	H	-	L	H	M	15	15-30	L		
	3	M	L		L	L	-	-	M	L	M	15	15-30	L		
	4	-	M	L	H	-	-	-	N/L	M	L	10	10-20	L		
West	1	H	L	O	L	L	L	L	N/L	N/A	N/A	H	20	40-100	L	
	2	L	M	L	L	L	L	L	N/L	N/A	N/A	H	20	20-40	L	
	3	L	L	L	L	O	O	O	N/L	N/A	N/A	H	10	10-20	L	
Ferry	1	O	L	O	-	O	M	M	L	L	L	L	> 35	7	> 35	
	2	L	M	O	-	L	-	M	L	L	L	7	7-14	L		
	3	O	M	O	-	L	-	N/H	L	L	L	4	4-8	M		
	4	O	M	O	-	L	-	M	L	L	L	5	5-10	M		
	5	O	L	O	-	L	-	M	L	L	L	1	1-2	H		
Murray	7	H	M	H	H	O	L	H	H	H	H	70	140-350	L		
	8	H	M	H	H	O	L	H	H	H	H	50	60-125	L		
	9	H	M	H	H	O	L	H	H	H	H	70	140-350	L		
Trib to Murray	1	M	M	L	M	O	L	M	N/A	N/A	N/A	5	< 25	M		
	2	M	M	L	M	O	L	M	N/A	N/A	N/A	7	3-4	M		
	3	L	L	L	L	L	L	L	L	L	L	3	< 65	M		
	4	L	L	L	L	L	L	L	L	L	L	3	< 30	M		

### Key To Stream Reach Evaluation

REARING HABITAT

An overall assessment of the first 6 parameters, averaging them out and coming out with a rating for the amount of rearing habitat present

The number value for the various feature values shown below

Value	Number Value
0	0
Low	1
Moderate	2

The calculation was as follows

Value of Flood/Slide	
+ Value of Debris	
+ Value of Pools	
+ Value of Banks	
+ the higher value of canopy or overhanging	

Range of calculated values		
0 to 1.0	Low	L
1.1 to 1.5	Moderate-Low	ML
1.6	Moderate	M
1.7 to 2.0	Moderate-High	MH
2.1 to 3.0	High	H

Low	- some rearing habitat available but limited use
Moderate	- suitable habitat available for rearing with usually two or more low value
High	- substantial amount of rearing habitat available with at least two "high" and only one "low" feature

FLOOD/SIDE CHANNELS

Channels connected to the main Channel, e flows (flood) or normal flows (side). These c usually characterized by low velocity water card)

	Value
Ns1	0

Mod High	Mod High
<u>DEBRIS</u>	
Organic materials deposited within the fl cribed as to abundance and to whether it is be	

	Value
None	0
Low-unstable	Low
Mod-unstable }	
High- " }	Moderate
Low-stable }	
Mod-stable	High

	POOL (found on reach can)
None	0
< 10%	Low

BANK HABITAT (sloping banks)  
The amount of bank that is greater than 4:1 sloping bank parameter on the reach card  
% sloping bank = The estimated length of

Value	Color
71% - 100% sloping banks	Low
51% - 70% "	Mod
0% - 50% "	High

CANOPY COVER (closure)  
The closure over a stream created by over-  
is expressed as a percentage of the channel area  
(on each reach card)

Value

None	0
10% - 20%	Low
11% - 20%	Mod
>20%	High

FOOTNOTES

(1) Environmental Impact Assessment of The Proposed Yukon Pipeline  
(8 C Section) 1976 Prepared for Westcoast Transmissions Co  
Ltd , by C D Schultz Co Ltd

(2) Classification and Analysis of River Processes 1976 By R. Kellerhals, M. Church and D. Bray. Journal of The Hydraulics Division, ASCE, Vol 102, No HYF, Proceedings paper 12232, pages 813 - 829.

## References

Aquatic System Units in the Northeast Coal Study Area, 1978 Prepared by E Harding, Resource Analysis Branch, B C Ministry of Environment, Victoria, B C In preparation

## Credits

Mapped by - E. Harding, Resource Analysis Branch, B. C. Ministry of Environment  
Date of mapping - 1978  
Drafted by - Cartographic Section, Resource Analysis Branch  
Topographic base map provided by - Surveys and Mapping Branch, B. C. Ministry of Environment