BC Ministry of Environment and Climate Change Strategy

DISCHARGE MEASUREMENT FIELD DATA AND CALCULATION, V2.0

(Excel Spreadsheet Stndt is valid for upto 25 measurement points

				Section 1	: Site Inf	formation	<u> </u>			
	ntification Numb	er:								
Station Nar		Ayum Creek								
Gazetted S	tream Name:	Ayum Creek								
Station Ope	erating Agency/F	Clark Hydrological Services								
and Contac	ct Details:									
					_					
Date (YYY	•	1997-11-	.08	Metered By:			В	. Boyd		
Air Temperatures (°C):			10.00	=	Water Te	emperatur	es (ºC):	5.00	_	
Location of	f Metering Sectio	n:	23 Metre	s d/s of rec	order					
	Time, PST	Ref.G.	I.G.	Recorder	7					
	(24hh:mm)	(m)	(m)	(m)						
Begin	15:45	0.430	\''''	\''')	1					
End	16:20	0.430			1					
Mean	16:02	0.430	1							
Gauge Cor	rection (m):	500		1	_					
C.G.H. (m):		0.430	1							
			_							
Total Disch	narge (m³/sec):	0.057	Total Ar	ea (m²):	0.265	Avg. Vel	ocity (m/s):	0.214	1	
Water Surfa	ace Width (m):	1.220	No of Ve	rticals:	19				_	
Motor	Type	DC4		Ne	05.00		Dron:	1.05.04		
Meter:	Туре:	PC1		No:	95-29	_	Prop:	1-95-21	_	
									_	
Method of	Suspension:		Top Sett	ing Rod is S	Selected.					
Options: 1	= Top Setting Ro	d, 2 = Sta	ndard or E	Bridge Rod, 3	s = Cable a	and Weight				
	ce from bottom o							_		
	use of above valu	ue refer to	section	2.2, Depth.						
Method of	Suspension:		1	=						
Meter Type):		Multiple	Range Mete	r is Selec	ted.			7	
		valutions /		<u> </u>					1	
	r(m/s) and n = Rev elds of only ONE			ar types and I	eave the	other blac				
	itions are filled, the					Juici Diai				
		-								
	ge Meter Equation									
V = n *	Slope	¬ +	Intercep	-						
V = n *		_ +		m/s						
Multiple Ra	ınge Meter Equat	ion								
n(Min)		n(Max)		Slope		Intercept				
0	< n <	1.82	7 V = n *	0.057	1 +	0.0214	m/s			
1.82	<= n <=	5.03	V = n *	0.0572	+	0.0211	m/s			
5.03	< n <	99	V = n *	0.0532	+	0.0411	m/s			
					<u> </u>					
									_	
Domorko:										
Remarks:									_	
									_	
Methods D	escription									

- 2 = Two point measurement, 0.2 and 0.8 depths are measured
- 3 = Three point measurement, 0.2 and 0.6 and 0.8 depths are measured.
- 5 = Point 5 measurement, 0.5 depth is measured. (only used for under ice conditions, 0.88 coefficient applied)
- 6 = Point 6 measurement, 0.6 depth is measured.
- B = Waters edge, used at the start of all measurements, and after

any "S" method. (The first panel disch. may be based on an estimated velocity. See method E, below.)

E = Estimated velocity. (Entered in Cos column as a % of adjacent measured velocity, ie 66% entered as .66.

At least one adjacent measurement method should be 2, 3, 6 or 5)

S = Stop at far edge of channel, always followed with a "B". (Last panel disch. may be estimated, as above.)

T = Absolute end of measurement.

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			Se	ection 2: D	ata Entry	& Comput	tations					
Observations							Computations					
Method	Distance From Init. Point (m)	Depth (m)	Depth of Obs. (m)	Revs.	Time (Secs)	Cos of Flow	Veloce At Point (m/s)	city Mean in Vertical (m/s)	Width (m)	Area (m²)	Disch.	
В	0.150	0.01	,	. ,				, ,	. ,	, ,	, ,	
6	0.200	0.18		-33	50		-0.016	-0.016	0.1	0.018	0.000	
6	0.300	0.19		-54	50		-0.040	-0.040	0.1	0.019	-0.001	
6	0.400	0.2		-36	50		-0.020	-0.020	0.1	0.020	0.000	
6	0.500	0.2		17	50		0.041	0.041	0.1	0.020	0.001	
6	0.600	0.21		118	50		0.156	0.156	0.075	0.016	0.002	
6	0.650	0.22		130	50		0.170	0.170	0.05	0.011	0.002	
6	0.700	0.22		199	50		0.249	0.249	0.05	0.011	0.003	
6	0.750	0.22		304	50		0.365	0.365	0.05	0.011	0.004	
6	0.800	0.26		387	50		0.453	0.453	0.05	0.013	0.006	
6	0.850	0.26		383	50		0.449	0.449	0.05	0.013	0.006	
6	0.900	0.28		351	50		0.415	0.415	0.05	0.014	0.006	
6	0.950	0.28		334	50		0.396	0.396	0.05	0.014	0.006	
6	1.000	0.19		220	50		0.273	0.273	0.05	0.010	0.003	
6	1.050	0.18		112	50		0.149	0.149	0.05	0.009	0.001	
6	1.100	0.22		163	50		0.208	0.208	0.05	0.011	0.002	
6	1.150	0.22		267	50		0.325	0.325	0.05	0.011	0.004	
6	1.200	0.24		305	50		0.366	0.366	0.05	0.012	0.004	
6	1.250	0.23		240	50		0.296	0.296	0.05	0.012	0.003	
6	1.300	0.22		216	50		0.268	0.268	0.095	0.021	0.006	
Т	1.370	0.22										