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The effect of vegetation zones on adjacent clear channel flow

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Average Velocities						
Full Width						
No Vegetation						
Chainage 5m						
y	Vx	Vy		V	Angle	Perpendicular
373	-14.77	-1.13		0.15	4.374973	-0.007
400	-16.21	-1.08		0.16	3.811729	-0.006
500	-16.95	-1.08		0.17	3.645776	-0.006
600	-15.13	-1.50		0.15	5.661847	-0.010
700	-16.79	-1.26		0.17	4.291698	-0.007
800	-17.17	-1.14		0.17	3.798571	-0.006
900	-17.50	-1.18		0.18	3.857533	-0.006
1000	-16.94	-1.37		0.17	4.623657	-0.009
1100	-17.29	-1.53		0.17	5.056958	-0.010
1200	-17.16	-1.21		0.17	4.033411	-0.007
1300	-17.39	-0.98		0.17	3.225448	-0.005
1400	-17.59	-0.87		0.18	2.831537	-0.003
1500	-17.40	0.72		0.17	-2.369508	0.012
1600	-16.48	-0.79		0.16	2.744481	-0.003
1700	-17.01	-0.78		0.17	2.625481	-0.003
1799	-17.19	-0.61		0.17	2.032331	-0.001
1899	-18.20	-0.75		0.18	2.359755	-0.002
1995	-18.38	-0.70		0.18	2.181048	-0.001
2035	-18.24	-0.61		0.18	1.915428	-0.001
2060	-18.14	-0.62		0.18	1.957528	-0.001
2085	-2.97	0.00		0.03	0	0.001
Chainage 5m Additional M easurements						
373	-16.19	-0.73		0.16	2.581693	-0.002
600	-15.62	-1.12		0.16	4.101257	-0.006
1800	-17.06	-0.80		0.17	2.684822	-0.003
1850	-17.99	-0.71		0.18	2.260084	-0.002
1900	-18.28	-0.71		0.18	2.224265	-0.002
1950	-18.35	-0.64		0.18	1.997517	-0.001
2000	-18.31	-0.66		0.18	2.064383	-0.001
2050	-16.43	-0.58		0.16	2.021775	-0.001
2060	-17.57	-0.69		0.18	2.248935	-0.002
2065	-16.92	-0.35		0.17	1.185027	0.002
2070	-14.84	-0.28		0.15	1.080924	0.002
2074	-16.08	-0.08		0.16	0.285051	0.004
2078	-14.89	-0.21		0.15	0.808013	0.002
2082	-15.67	-0.21		0.16	0.767798	0.003
2084	-14.54	-0.10		0.15	0.39405	0.003
2086	-15.34	0.00		0.15	0	0.005
2088	-2.83	-0.01		0.03	0.202458	0.001
2090	-13.90	0.23		0.14	-0.947973	0.007
2092	-13.06	-0.26		0.13	1.1405	0.001
Chainage 10m						
800	-14.71	-0.48		0.15	1.868948	
1200	-16.09	-0.68		0.16	2.42001	
1300	-15.93	-0.39		0.16	1.402441	
1500	-11.99	-0.39		0.12	1.863009	
1600	-13.06	-0.23		0.13	1.008933	
1700	-13.12	-0.57		0.13	2.487658	
1800	-11.02	-0.47		0.11	2.442169	
1900	-13.25	-0.13		0.13	0.562129	
2000	-13.93	0.06		0.14	-0.246786	
2025	-3.77	-0.32		0.04	4.851673	
2050	-13.38	-0.37		0.13	1.584009	
2060	-12.51	0.11		0.13	-0.503787	
2070	-11.87	0.20		0.12	-0.965297	
2075	-10.83	0.47		0.11	-2.484961	
2080	-11.56	0.19		0.12	-0.941628	
2084	-10.58	0.03		0.11	-0.162464	
2086	-11.65	0.18		0.12	-0.885186	
2088	-1.89	0.02		0.02	-0.606282	
2090	-9.51	-0.12		0.10	0.722937	
2092	-9.66	0.01		0.10	-0.059312	
376	-12.78	-0.27		0.13	1.210294	
480	-14.22	-0.25		0.14	1.007206	
600	-14.66	-0.14		0.15	0.547146	
1000	-13.92	-0.41		0.14	1.687103	

Chainage 5m with 2 bricks removed						
1500	-16.91	-0.36		0.17	1.219596	
1600	-16.84	-0.51		0.17	1.734675	
1700	-18.15	-0.72		0.18	2.271699	
1800	-18.53	-0.58		0.19	1.792807	
1900	-19.60	-0.69		0.20	2.016213	
1950	-19.74	-0.74		0.20	2.146861	
1400	-16.87	-0.55		0.17	1.86731	
1300	-16.44	-0.42		0.16	1.463442	
Ch 5m All bricks removed						
1300	-17.17	-0.95		0.17	3.166893	-0.004
1400	-17.39	-0.92		0.17	3.028351	-0.004
1500	-17.28	-0.67		0.17	2.220425	-0.001
1600	-16.15	-0.88		0.16	3.118915	-0.004
1700	-16.63	-0.91		0.17	3.132123	-0.004
1800	-17.85	-0.82		0.18	2.630226	-0.003
1900	-18.24	-0.77		0.18	2.417301	-0.002
1950	-18.10	-0.64		0.18	2.025084	-0.001
Ch 2m						
375	-15.01	-1.04		0.15	3.963526	
500	-15.60	-0.68		0.16	2.495928	
700	-16.22	-0.34		0.16	1.200845	
900	-16.46	-0.63		0.16	2.191903	
1100	-16.32	-0.99		0.16	3.471409	
1300	-15.90	-1.15		0.16	4.136831	
1500	-15.98	-0.52		0.16	1.863786	
1600	-15.94	-0.17		0.16	0.611036	
1700	-16.36	-0.40		0.16	1.400596	
1800	-16.41	-0.17		0.16	0.593537	
1900	-16.28	-0.36		0.16	1.266776	
1950	-16.19	-0.23		0.16	0.813906	
2000	-17.07	-0.29		0.17	0.973297	
2050	-15.53	-0.30		0.16	1.106671	
2095	-10.41	-0.12		0.10	0.660441	
2070	-15.97	-0.11		0.16	0.394642	
2030	-16.28	-0.29		0.16	1.020517	
2040	-14.90	-0.57		0.15	2.190784	
2045	-15.99	-0.39		0.16	1.397181	
2055	-16.50	-0.33		0.17	1.145763	
2060	-16.50	-0.26		0.17	0.902768	
2010	-16.07	-0.28		0.16	0.998208	
2000	-16.57	-0.29		0.17	1.00266	
1990	-16.70	-0.21		0.17	0.720448	
AVERAGE (°)					1.743708	
AVERAGE (rad)					0.030433	
Ch 8m						
2095	-8.82	-0.26		0.09	1.688502	
2050	-15.38	-0.45		0.15	1.675926	
2000	-14.41	-0.42		0.14	1.669495	
1950	-14.46	0.39		0.14	-1.544947	
1900	-15.62	-0.28		0.16	1.026959	
1800	-15.39	-0.34		0.15	1.265588	
1700	-16.32	-0.43		0.16	1.509282	
1600	-15.72	-0.69		0.16	2.513278	
1500	-17.40	-0.12		0.17	0.395137	
1400	-17.49	-0.23		0.17	0.753417	
1300	-17.31	-0.29		0.17	0.959805	
1200	-18.15	-0.22		0.18	0.69446	
1100	-17.05	-0.25		0.17	0.840054	
1000	-17.52	-0.48		0.18	1.569355	
900	-17.77	-0.48		0.18	1.547287	
800	-15.74	-0.26		0.16	0.94635	
700	-14.83	-0.14		0.15	0.540875	
600	-10.96	-0.68		0.11	3.550297	
500	-10.89	-0.90		0.11	4.724452	
400	-7.17	-0.20		0.07	1.597794	
375	-7.83	-0.94		0.08	6.845659	

Ch 6m						
2090	-13.09	-0.06		0.13	0.262622	
2050	-16.53	-0.52		0.17	1.801814	
2000	-17.80	-0.59		0.18	1.898435	
1950	-19.54	-0.46		0.20	1.348577	
1900	-19.66	-0.71		0.20	2.068277	
1800	-20.03	-0.86		0.20	2.458518	
1700	-20.43	-1.13		0.20	3.165851	
1600	-21.31	-1.35		0.21	3.624875	
1500	-21.54	-1.05		0.22	2.790761	
1400	-21.32	-0.47		0.21	1.262883	
1300	-20.77	-0.43		0.21	1.186021	
1200	-18.98	-0.84		0.19	2.534092	
1100	-20.73	-0.73		0.21	2.016818	
1000	-18.73	-1.16		0.19	3.543957	
900	-19.80	-0.70		0.20	2.024765	
800	-20.20	-0.77		0.20	2.18299	
700	-20.80	-1.08		0.21	2.972304	
600	-21.33	-1.17		0.21	3.13966	
500	-20.95	-1.43		0.21	3.904825	
400	-21.68	-1.50		0.22	3.957884	
375	-20.44	-1.88		0.21	5.255081	

	End Angles		
	Ch	End Dist	Angle
	(m)	(mm)	(°)
	5a	7	0
	5a	32	1.957528
	5b	22	1.080924
	5b	18	0.285051
	5b	14	0.808013
	5b	10	0.767798
	5b	8	0.39405
	5b	6	0
	10	26	-0.965297
	10	21	-2.484961
	10	16	-0.941628
	10	12	-0.162464
	10	10	-0.885186
	10	8	-0.606282
	10	6	0.722937
	2	28	0.394642
	6	6	0.262622

Flume Width:	Full												
Vegetation:	No Veg												
Chainage 9.98m		Vert. Gap:	10.2	mm	Lateral Dist between Propeller and ADV sample vol:					147	mm	(measured 23 Apr)	
Date:	25-May-05	Temp:	16.7	℃									
Gate Position (mm)		1020											
Time			8:30	10:36									
Q_pipe-min	(m3/h)			112.5									
Q_pipe-max	(m3/h)			114.3				Average					
Q_pipe-min	(m3/s)			0.031 3				0.031 5					
Q_pipe-max	(m3/s)			0.031 8									
V-notch	(mm)			220.3									
V-notch	(m3/s)			0.033 0				0.033 0					
	Lateral Pos:	Bottom	0										
		Peak	-62.81										
	mm	Continuous	-61.21										
		Average Surface	-62.01		Estimated Cross-section Average Depth:					60.8	mm		
Ch. 10m L0.7		Depth	62.0		Flume Width			0		1988	mm		
		Bottom	-2.76	-2.76	Average	according to V-notch reading				0.273	0.273	m/s	
		Peak	-66.1	-66.07	Velocity	according to pipe flowmeter reading				0.261	0.261	m/s	
		Continuous	-63.61	-64.18	W.S. Slope	0.000 584							
		Average Surface	-64.855	-65.125									
Ch 2m		Depth	62.1	62.4									

Minature Propeller																	
Lateral	**Calc Dist from Interface**	**Mark**	**Propeller Serial**	**Speed**											**V**	**Range Warning**	**V/sqrt(Sf)**
(mm)	(mm)			(Hz)											(m/s)		
				1	2	3	4	5	6	7	8	9	Aver	SD			
370	1755	L0.9	2043	38.7	38.0	38.5	39.6	40.4	40.3	40.3	38.0	39.0	39.2	1.0	0.268	Propeller 2043 OK	11.09331
469	1656	L0.8	2043	40.5	39.4	42.6	41.4	41.8	39.2	40.3	40.1	40.8	40.7	1.1	0.277	Propeller 2043 OK	11.44726
566	1559	L0.7	2043	41.6	42.6	40.6	41.0	39.9	41.3	42.0	41.2	42.7	41.4	0.9	0.281	Propeller 2043 OK	11.62823
667	1458		2043	42.2	44.4	42.4	43.9	44.2	44.5	43.5	43.8	41.8	43.4	1.0	0.293	Propeller 2043 OK	12.10193
867	1258		2043	46.6	46.0	43.0	47.2	43.1	44.6	45.9	46.2	44.8	45.3	1.5	0.303	Propeller 2043 OK	12.54637
1067	1058		2043	45.9	45.0	46.1	46.6	47.5	45.5	46.5	46.4	44.5	46.0	0.9	0.308	Propeller 2043 OK	12.72201
1267	858		2043	46.4	44.3	45.9	44.5	47.4	46.3	45.4	45.9	45.0	45.7	1.0	0.306	Propeller 2043 OK	12.64483
1467	658		2043	45.4	46.6	46.5	47.3	45.4	47.4	46.4	47.5	46.0	46.5	0.8	0.310	Propeller 2043 OK	12.84177
1667	458		2043	44.0	45.9	46.6	46.4	44.7	44.7	44.5	46.8	44.4	45.3	1.1	0.304	Propeller 2043 OK	12.56234
1767	358		2043	45.3	44.8	43.9	43.7	42.2	44.2	44.1	44.2	44.1	44.1	0.8	0.296	Propeller 2043 OK	12.25629
1867	258		2043	39.1	36.6	39.6	43.0	41.2	43.2	41.8	45.1	40.3	41.1	2.5	0.279	Propeller 2043 OK	11.54839
1967	158		2043										34.0		0.238	Propeller 2043 OK	9.847832
2037	88		2043										24.6		0.181	Propeller 2043 OK	7.50678
2103																	
0																	

Flume Width:	Full							Estimated Cross-section Average Depth:						48.0	mm				
Vegetation:	1 Frame	Height of top of Propeller shaft above bottom						Flume Width				0		1988	mm				
Chainage 9.98m		at Mark L0.7:				27	mm	Average	according to V-notch reading					0.316	0.316	m/s			
								Velocity	according to pipe flowmeter reading					0.302	0.302	m/s			
Date:	26-Jan-06	Temp:		℃				W.S. Slope		0.000 589	at start and			0.000 400	at end				
Gate Position (mm)		1022																	
Time			16:29	17:36															
Q_pipe	(m3/h)		103.9	103.9				Average for test											
Q_pipe	(m3/s)		0.028 9	0.028 9				0.028 9											
V-notch	(mm)		212.3	212.3															
V-notch	(m3/s)		0.030 1	0.030 1				0.030 1											
Location	**Depth or Level**	**Zero Depth or Level**		**Height above zero**			**Depth at L0.7**		**Average Depth**		**Velocity Head**			**Total Head**		**Sf**		**Sws**	
just L of 2 L0.7		10.10																	
10 L0.7		13.00																	
SP2 - End	0.89	54.29		53.40			63.5		61.9		7.39			60.79					
SP2 - 2 hours before start	0.83	52.82		51.99			62.1		60.5		7.56			59.55					
SP10 - End	4.8	53.49		48.69			61.7		60.5		7.55			56.24		0.000 57		0.000 59	
SP 10 -2 hours before start	4.70	53.49		48.79			61.8		60.6		7.54			56.33		0.000 40		0.000 40	
Right Wall to edge of Vegetation:		146	146																
		0	20																
		0	0.28																

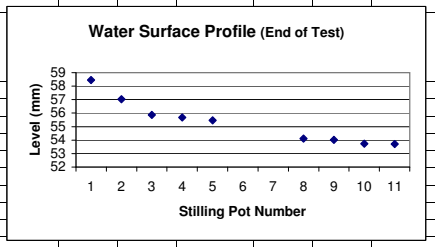
Lateral	Mark	Dist from Interface	Propeller Serial	Speed														
(mm)		(mm)		(Hz)												V	Range Warning	V/SQRT(Sws)
				1	2	3	4	5	6	7	8	9	10	11	12	Aver	(m/s)	
1987		50	2043	12.6	18.0	15.8	15.6	15.9	17.2	17.8	17.3	16.5	14.5	22.9	14.8	16.6	0.135	Propeller 2043 OK	6.1
2033		5	2043	5.1	3.6	3.7	5.6	2.3	7.9	6.9	1.8	2.4	3.4	2.0	3.8	4.0	0.062	Propeller 2043 out of range	2.8
2012		26	2043	10.1	10.2	12.3	9.6	4.3	6.9	14.2	10.0	6.4	4.3	11.7	10.3	9.2	0.092	Propeller 2043 OK	4.1
1966		71	2043	23.4	21.7	21.6	20.3	19.0	20.0	16.0	23.0	19.6	18.8	21.2	22.0	20.6	0.158	Propeller 2043 OK	7.1
1931		106	2043	18.5	30.5	25.3	26.2	27.5	25.3	29.9	29.1	27.4	27.0	24.6	23.8	26.3	0.191	Propeller 2043 OK	8.6
1900		137	2043	31.8	31.1	31.7	29.3	30.5	31.3	33.4	29.7	32.9	32.8	30.3	32.4	31.4	0.221	Propeller 2043 OK	10.0
1800		237	2043	36.9	37.7	37.5	39.5	35.4	39.1	35.4	35.5	35.3	36.7	38.4	38.7	37.2	0.255	Propeller 2043 OK	11.5
1700		337	2043	37.4	40.9	40.0	39.2	39.4	40.4	38.3	39.0	39.6	39.3	38.6	39.5	39.3	0.267	Propeller 2043 OK	12.0
1600		437	2043	41.7	39.6	41.8	40.1	42.7	42.1	41.1	40.9	42.6	42.4	41.8	42.1	41.6	0.280	Propeller 2043 OK	12.6
1450		587	2043	40.0	39.0	40.5	41.0	41.7	41.6	40.8	41.7	42.1	39.3	42.2	41.8	41.0	0.277	Propeller 2043 OK	12.5
1300		737	2043	40.4	42.2	42.4	40.6	41.8	40.2	42.4	43.6	40.9	42.3	40.4	39.6	41.4	0.279	Propeller 2043 OK	12.6
1150		887	2043	40.9	41.0	38.6	40.8	40.4	42.1	40.0	40.8	42.6	39.8	40.7	40.4	40.7	0.275	Propeller 2043 OK	12.4
1000		1037	2043	40.4	40.8	38.6	39.9	40.7	39.1	41.6	41.5	40.6	40.6	41.2	41.6	40.6	0.274	Propeller 2043 OK	12.3
850		1187	2043	39.1	38.7	39.2	40.5	42.1	38.7	39.0	39.7	39.4	41.1	39.6	40.4	39.8	0.270	Propeller 2043 OK	12.1
700	R. of L0.5	1337	2043	38.4	35.0	39.1	36.0	38.0	38.0	39.3	38.5	37.7	37.1	38.4	39.1	37.9	0.259	Propeller 2043 OK	11.6
550		1487	2043	39.5	38.9	39.2	37.8	37.7	39.7	38.5	37.7	37.8	37.5	38.1	39.8	38.5	0.263	Propeller 2043 OK	11.8
400		1637	2043	34.7	37.3	36.1	36.9	37.3	38.2	36.6	35.5	35.0	35.9	36.8	36.5	36.4	0.250	Propeller 2043 OK	11.3
340		1697	2043	39.2	37.9	39.2	39.1	39.9	38.6	39.0	37.8	38.0	38.8	38.6	40.0	38.8	0.264	Propeller 2043 OK	11.9
265		1772	2043	35.9	34.2	36.1	35.0	36.0	36.2	35.3	36.6	36.0	35.1	35.2	35.5	35.6	0.246	Propeller 2043 OK	11.0

Flume Width:	Full							Estimated Cross-section Average Depth:				47.3	mm		
Vegetation:	1 Frame	Height of top of Propeller shaft above bottom						Flume Width			0	1988	mm		
Chainage 9.98m		at Mark L0.7:			27	mm		Average Velocity	according to V-notch reading			0.321	0.321	m/s	
									according to pipe flowmeter reading			0.307	0.307	m/s	
Date:	26-Jan-06	Temp:		℃				W.S. Slope		0.000 401	at start and	0.000 385	at end		
Gate Position (mm)		1022													
Time			11:55	14:17											
Q_pipe	(m3/h)		103.9	103.9			Average for test								
Q_pipe	(m3/s)		0.028 9	0.028 9				0.028 9							
V-notch	(mm)		212.5	212.25											
V-notch	(m3/s)		0.030 2	0.030 1				0.030 2							
Location	**Depth or Level**	**Zero Depth or Level**		**Height above zero**			**Depth at L0.7**		**Average Depth**		**Velocity Head**	**Total Head**		**Sf**	**Sws**
just L of 2 L0.7		10.10													
10 L0.7		13.00													
SP2 - Start	0.78	52.36		51.58			61.7		60.0		7.62	59.20			
SP2 - End	0.83	52.37		51.54			61.6		60.0		7.63	59.17			
SP10 - Start	4.79	53.16		48.37			61.4		60.2		7.61	55.98		0.000 40	0.000 40
SP 10 - End	4.70	53.16		48.46			61.5		60.3		7.60	56.06		0.000 39	0.000 39
Difference														Average:	0.000 39
Right Wall to edge of Vegetation:		146	146												
		0	20												
		0	0.28												

Flume Width:	Full							Estimated Cross-section Average Depth:				47.3	mm		
Vegetation:	1 Frame	Height of top of Propeller shaft above bottom						Flume Width			0	1988	mm		
Chainage 9.98m		at Mark L0.7:			27	mm		Average Velocity	according to V-notch reading			0.321	0.321	m/s	
									according to pipe flowmeter reading			0.307	0.307	m/s	
Date:	26-Jan-06	Temp:		℃				W.S. Slope		0.000 401	at start and	0.000 385	at end		
Gate Position (mm)		1022													
Time			11:55	14:17											
Q_pipe	(m3/h)		103.9	103.9			Average for test								
Q_pipe	(m3/s)		0.028 9	0.028 9				0.028 9							
V-notch	(mm)		212.5	212.25											
V-notch	(m3/s)		0.030 2	0.030 1				0.030 2							
Location	**Depth or Level**	**Zero Depth or Level**		**Height above zero**			**Depth at L0.7**		**Average Depth**		**Velocity Head**	**Total Head**		**Sf**	**Sws**
just L of 2 L0.7		10.10													
10 L0.7		13.00													
SP2 - Start	0.78	52.36		51.58			61.7		60.0		7.62	59.20			
SP2 - End	0.83	52.37		51.54			61.6		60.0		7.63	59.17			
SP10 - Start	4.79	53.16		48.37			61.4		60.2		7.61	55.98		0.000 40	0.000 40
SP 10 - End	4.70	53.16		48.46			61.5		60.3		7.60	56.06		0.000 39	0.000 39
Difference														Average:	0.000 39
Right Wall to edge of Vegetation:		146	146												
		0	20												
		0	0.28												

Flume Width:	1349		Clear width:	1223				Estimated Cross-section Average Depth:					59.9	mm	
Vegetation:	1 Frame	Approximate Height of probe centre above bottom at						Flume Width			0		1349	mm	
Chainage 10m		Mark L0.7:				27	mm	Average	according to V-notch reading				0.258	0.258	m/s
								Velocity	according to pipe flowmeter reading				0.244	0.244	m/s
Date:	13-Feb-06	Measured Temp:	20	℃				Fr =	0.34						
Gate Position (mm)	1021		Break Begin	Break end											
Time		15:33	16:14	19:46	22:19										
Q_pipe	(m3/h)	71.3	71.3	71.3	70.1			Average for test							
Q_pipe	(m3/s)	0.019 8	0.019 8	0.019 8	0.019 5			0.019 7							
V-notch	(mm)	183	183	183	183										
V-notch	(m3/s)	0.020 9	0.020 9	0.020 9	0.020 9			0.020 9							

Location	**Level**	**Level at no depth at 10L0.7**		**Height above bed at 10 L0.7**	**Difference**	**Sws**
SP2 - Start	265.57	329.77		64.20		
SP2 - End	265.74	329.30		63.56		
SP10 - Start	269.42	330.56		61.14	3.85	0.000 383
SP 10 - End	269.57	330.56		60.99	3.83	0.000 321
Target - Min	268.87				3.89	
Target - Max	270.27				4.19	
Difference		0.79				
		1.26				
Right Wall to edge of Vegetation:		126	126			



Stilling Pot	1	2	3	4	5	6	7	8	9	10	11
Before Test - empty flume	322.78	322.78	322.98	323.17	323.26	Dry	Dry	323.19	323.27	323.30	323.46
End of Test	264.33	265.74	267.12	267.49	267.8			269.09	269	269.57	269.74
Difference (WS profile)	58.45	57.04	55.86	55.68	55.46			54.1	54.01	53.73	53.72

Flitered According to:	Average SNR >	7	Average Correlation >			50%		Velocity Threshold 3 standard deviations							

Comment or file name addendum	Lateral	Dist L. Wall Meas Sample Vol	Dist Interface	Nominal Velocity Range	Vx	Vy	V	V/SQRT (Sws)	Angle
	(mm)	(mm)	(mm)	(cm/s)	(cm/s)	(cm/s)	(m/s)		(°)
Period 80s. Very Good SNR and Correlation	325	31	1188	100	22.84	-1.07	0.23	12.2	-2.6822
	377	83	1136	100	25.64	-0.79	0.26	13.7	-1.7648
	402	107	1111	100	26.27	-0.70	0.26	14.0	-1.5264
	441	148	1072	100	25.63	-0.55	0.26	13.7	-1.2293
	500	209	1013	100	26.36	-0.60	0.26	14.1	-1.3039
	602	312	911	100	26.49	-0.71	0.26	14.1	-1.5353
Stopped for break after reading	450	156	1063	100	25.66	-0.62	0.26	13.7	-1.3841
Resumed	751	Not Detected	762	100	26.75	-0.85	0.27	14.3	-1.82
SNR y a bit low. Very poor x correlation with 100 cms range.	900	Not Detected	613	30	26.91	-0.83	0.27	14.4	-1.7666
	951	Not Detected	562	100	27.18	-0.77	0.27	14.5	-1.6227
	1073	Not Detected	440	100	26.53	-0.82	0.27	14.1	-1.7704
	1200	Not Detected	313	100	23.69	-0.62	0.24	12.6	-1.4992
	990	Not Detected	523	100	27.46	-0.85	0.27	14.6	-1.773
	1020	Not Detected	493	100	27.01	-0.85	0.27	14.4	-1.8025
	1051	Not Detected	462	100	26.61	-0.87	0.27	14.2	-1.8726
	1100	Not Detected	413	100	26.27	-0.91	0.26	14.0	-1.9839
	1125	Not Detected	388	100	25.57	-0.84	0.26	13.6	-1.8815
	1150	Not Detected	363	100	25.10	-0.70	0.25	13.4	-1.5975
	1175	Not Detected	338	100	24.64	-0.71	0.25	13.1	-1.6505
	1225	Not Detected	288	100	23.17	-0.64	0.23	12.4	-1.5822
	1250	Not Detected	263	100	22.41	-0.48	0.22	11.9	-1.227
	1275	Not Detected	238	100	20.60	-0.35	0.21	11.0	-0.9734
	1300	Not Detected	213	100	20.38	-0.38	0.20	10.9	-1.0682
	1325	Not Detected	188	100	17.74	-0.76	0.18	9.5	-2.4531
	1351	Not Detected	162	100	19.72	-0.16	0.20	10.5	-0.4649
	1375	Not Detected	138	100	17.40	-0.07	0.17	9.3	-0.2305
	1400	Not Detected	113	100	16.30	-0.06	0.16	8.7	-0.2109
	1420	Not Detected	93	100	14.99	-0.01	0.15	8.0	-0.0382
Period increased to 200s.	1337	Not Detected	176	100	19.47	-0.27	0.19	10.4	-0.7945
72mm long Gap produced Ch 10.2. All further measurements ta	1337	Not Detected	176	100	18.75	-0.13	0.19	10.0	-0.3972
Period decreased to 180s.	1400	Not Detected	113	100	16.47	0.03	0.16	8.8	0.10436
	1426	Not Detected	87	100	14.65	0.13	0.15	7.8	0.50841
	1450	Not Detected	63	100	12.99	0.08	0.13	6.9	0.35286
	1475	Not Detected	38	100	10.34	0.13	0.10	5.5	0.72032
	1500	Not Detected	13	100	5.90	-0.19	0.06	3.1	-1.8445
SNR y a bit low.	1525	Not Detected	-12	100	2.37	-0.80	0.03	1.3	-18.652
	1545	Not Detected	-32	83(100)	2.04	-0.74	0.02	1.2	-19.938

Flume Width:	1724							Estimated Cross-section Average Depth:					60.8	mm	
Vegetation:	1 Frame	Approximate Height of probe centre above bottom at						Flume Width			0		1724	mm	
Chainage 10m		Mark L0.7:				27	mm	Average	according to V-notch reading				0.280	0.280	m/s
		Measured						Velocity	according to pipe flowmeter reading				0.271	0.271	m/s
Date:	26-Jan-06	yesterday Temp:	20.2	℃											
Gate Position (mm)		1022													
Time			20:24	18:06											
Q_pipe	(m3/h)		102.3	102.35				Average for test							
Q_pipe	(m3/s)		0.028 4	0.028 4				0.028 4							
V-notch	(mm)		210	210											
V-notch	(m3/s)		0.029 3	0.029 3				0.029 3							
Location	**Level**	**Level at no depth at 10L0.7**		**Height above bed at 10 L0.7**	**Difference**	**Sws**									
SP2 - Start	264.72	329.77		65.05											
SP2 - End	264.77	329.78		65.01											
SP10 - Start	268.56	330.57		62.01	3.84	0.000 380									
SP 10 - End	268.67	330.57		61.90	3.90	0.000 389									
Target - Min	0.00				0										
Target - Max	0.00				0										
Difference		0.80													
		0.79													
Right Wall to edge of Vegetation:		126	126												

Flitered According to:	Average SNR >	7	Average Correlation >			50%		Velocity Threshold 3 standard deviations								
Comment or file name addendum	**Lateral**	**Dist L. Wall Meas Sample Vol**	**Dist Interface**	**Nominal Velocity Range**	**Vx**	**Vy**	**V**	**V/SQRT (Sws)**	**Angle**							
	(mm)	(mm)	(mm)	(cm/s)	(cm/s)	(cm/s)	(m/s)		(°)							
	315	17.5??	1582	100(38)	30.91	-0.73	0.31	15.8	-1.3529							
	340	42 or 45	1557	100	31.05	-0.73	0.31	15.8	-1.3468							
	370	75	1527	100	28.18	-0.26	0.28	14.4	-0.5286							
	400	105	1497	100(38)	32.91	-0.90	0.33	16.8	-1.5665							
	440	146	1457	100	32.77	-0.87	0.33	16.7	-1.5208							
	500	200	1397	100(38)	Poor Correlation											
SNR not great for Vy	650	Not Detected	1247	100	32.02	-0.72	0.32	16.3	-1.2881							
SNR not great for Vy	500	207	1397	100	30.50	-1.09	0.31	15.6	-2.0467							
	561	269	1336	100	32.20	-0.84	0.32	16.4	-1.4943							
	614	321	1283	100	32.42	-0.86	0.32	16.5	-1.5195							
Poor Signal	800	Not Detected	1097	100	32.57	-1.32	0.33	16.6	-2.3208							
	951	Not Detected	946	100	33.35	-1.03	0.33	17.0	-1.769							
Probe lifted - may have been too close to bed	1101	Not Detected	796	100	34.53	-1.09	0.35	17.6	-1.808							
	1250	Not Detected	647	100	35.10	-1.18	0.35	17.9	-1.9255							
	1401	Not Detected	496	100	33.95	-1.28	0.34	17.3	-2.1592							
	1549	Not Detected	348	100	35.60	-1.28	0.36	18.2	-2.0592							
SNR not great for Vy	1650	Not Detected	247	100	29.94	-0.50	0.30	15.3	-0.9568							
SNR very poor for Vy. Not great for Vx	1461	Not Detected	436	100	34.87	-1.42	0.35	17.8	-2.3319							
SNR poor for Vy	1600	Not Detected	297	100	34.57	-0.78	0.35	17.6	-1.2925							
SNR poor for Vy	1651	Not Detected	246	100	29.97	-0.59	0.30	15.3	-1.1278							
	1680	Not Detected	217	100	28.63	-0.63	0.29	14.6	-1.2606							
Moved probe down	1710	Not Detected	187	100	27.10	-0.46	0.27	13.8	-0.9725							
	1740	Not Detected	157	100	20.98	-1.17	0.21	10.7	-3.1919							
Poor SNR	1770	Not Detected	127	100	20.44	-0.87	0.20	10.4	-2.4372							
Poor SNR	1807	Not Detected	90	100	18.52	-0.66	0.19	9.5	-2.041							
Good signal	1735	Not Detected	162	100	21.67	-0.51	0.22	11.1	-1.3482							
Good signal	1723	Not Detected	174	100	16.03	-0.96	0.16	8.2	-3.4272							
	Boundary Position		1897													
	Clear Width		0													

Flume Width:	1724							Estimated Cross-section Average Depth:					60.7	mm	
Vegetation:	1 Frame	Approximate Height of probe centre above bottom at						Flume Width			0		1724	mm	
Chainage 10m		Mark L0.7:				27	mm	Average	according to V-notch reading				0.281	0.281	m/s
		Measured						Velocity	according to pipe flowmeter reading				0.272	0.272	m/s
Date:	26-Jan-06	yesterday Temp:	20.2	℃											
Gate Position (mm)		1022													
Time			15:47	18:06											
Q_pipe	(m3/h)		102.2	102.35				Average for test							
Q_pipe	(m3/s)		0.028 4	0.028 4				0.028 4							
V-notch	(mm)		210.3	210											
V-notch	(m3/s)		0.029 4	0.029 3				0.029 4							
Location	**Level**	**Level at no depth at 10L0.7**		**Height above bed at 10 L0.7**	**Difference**	**Sws**									
SP2 - Start	264.91	329.77		64.86											
SP2 - End	264.72	329.78		65.06											
SP10 - Start	268.71	330.57		61.86	3.80	0.000 375									
SP 10 - End	268.56	330.57		62.01	3.84	0.000 381									
Target - Min	0.00				0										
Target - Max	0.00				0										
Difference		0.80													
		0.79													
Right Wall to edge of Vegetation:		126	126												
Flitered According to:	Average SNR >	7	Average Correlation >			50%									

Mark or file	Lateral	Dist L. Wall Meas Sample Vol	Dist Interface	Nominal Velocity Range	Vx	Vy	V	V/SQRT (Sws)	Angle
	(mm)	(mm)	(mm)	(cm/s)	(cm/s)	(cm/s)	(m/s)		(°)
	1810	Not Detected	88	100	9.50	-1.92	0.10	5.0	-11.426
	1784	Not Detected	114	100	15.60	-2.70	0.16	8.1	-9.8193
	1758	Not Detected	140	100	19.53	-3.29	0.20	10.2	-9.5622
	1731	Not Detected	167	100	23.28	-3.73	0.24	12.1	-9.1028
	1708	Not Detected	190	100	26.12	-4.35	0.26	13.6	-9.4552
	1675	Not Detected	223	100	Erratic Readings				
	1675	Borderline SNR	223	30	27.59	-5.02	0.28	14.4	-10.312
	1649	Borderline SNR	249	30	28.39	-5.77	0.29	14.9	-11.488
	1622	Not Detected	276	100	28.04	-6.08	0.29	14.8	-12.234
	1600	Not Detected	298	100	29.47	-5.70	0.30	15.4	-10.947
	1574	Not Detected	324	100	31.86	-5.71	0.32	16.6	-10.161
	1550	Not Detected	348	100	35.28	-6.02	0.36	18.4	-9.6834
	1525	Not Detected	373	100 (38)	37.52	-6.16	0.38	19.6	-9.3236
	1500	Not Detected	398	100 (38)	37.25	-5.83	0.38	19.4	-8.8952
	1475	Not Detected	423	100	36.24	-5.67	0.37	18.9	-8.8922
	1450	Not Detected	448	100(38)	Gives Junk				
	1400	Not Detected	498	30	35.00	-5.76	0.35	18.2	-9.3455
	1300	Not Detected	598	100	34.53	-5.26	0.35	18.0	-8.6614
	1170	Not Detected	728	100	33.01	-4.43	0.33	17.1	-7.6435
	1040	Not Detected	858	100	31.92	-3.89	0.32	16.5	-6.9482
	900	Few spikes filtered	998	100(38)	32.12	-3.43	0.32	16.6	-6.0953
	750		1148	100(67)	28.43	-2.47	0.29	14.7	-4.9654
	600	308	1298	100(38)	29.71	-1.88	0.30	15.3	-3.6208
	450	155	1448	100	30.44	-0.93	0.30	15.7	-1.75
	400	103	1498	100(38)	29.21	-1.50	0.29	15.0	-2.9397
	370	72	1528	100(71)	25.80	-0.92	0.26	13.3	-2.0422
	340	Not Detected	1558	100	28.79	-0.81	0.29	14.8	-1.6116
	315	16	1583	100(38)	29.29	-0.92	0.29	15.1	-1.7991
	370	73	1528	100(71)	24.77	-1.28	0.25	12.8	-2.9582
	Boundary Position		1898						
	Clear Width		1601						

Flume Width:	1724							Estimated Cross-section Average Depth:					60.6	mm	
Vegetation:	1 Frame	Approximate Height of probe centre above bottom at						Flume Width			0		1724	mm	
Chainage 10m		Mark L0.7:				27	mm	Average	according to V-notch reading				0.282	0.282	m/s
		Measured						Velocity	according to pipe flowmeter reading				0.272	0.272	m/s
Date:	26-Jan-06	yesterday Temp:	20.2	℃											
Gate Position (mm)		1022													
Time			13:40	15:47											
Q_pipe	(m3/h)		102.3	102.2				Average for test							
Q_pipe	(m3/s)		0.028 4	0.028 4				0.028 4							
V-notch	(mm)		210.5	210.3											
V-notch	(m3/s)		0.029 5	0.029 4				0.029 5							
Location	**Level**	**Level at no depth at 10L0.7**		**Height above bed at 10 L0.7**	**Difference**	**Sws**									
SP2 - Start	264.95	329.77		64.82											
SP2 - End	264.91	329.78		64.87											
SP10 - Start	268.81	330.57		61.76	3.86	0.000 383									
SP 10 - End	268.71	330.57		61.86	3.80	0.000 376									
Target - Min	0.00				0										
Target - Max	0.00				0										
Difference		0.79													
Right Wall to edge of Vegetation:		126	126												
		0	20												
		0	0.28												
Flitered According to:	Average SNR >	7	Average Correlation >			50%									

Mark or file	Lateral	Dist L. Wall Meas Sample Vol	Dist Interface	Nominal Velocity Range	Vx	Vy	V	V/SQRT (Sws)	V / Ave	Angle					
	(mm)	(mm)	(mm)	(cm/s)	(cm/s)	(cm/s)	(m/s)			(°)					
	331	33	1552	30	25.89	-0.94	0.26	13.3	0.91768	-2					
	380	83	1503	30	28.75	-0.82	0.29	14.8	1.0188	-2					
	452	157	1431	30	29.21	-0.67	0.29	15.0	1.03495	-1					
	500	204	1383	30	29.95	-0.64	0.30	15.4	1.06114	-1					
	600	307	1283	30	30.41	-0.68	0.30	15.6	1.07746	-1					
	700	Not Detected	1183	30	30.63	-0.83	0.31	15.7	1.08538	-2					
	801	Not Detected	1082	30	30.50	-0.84	0.31	15.7	1.08079	-2					
	903	Not Detected	980	30	31.12	-0.68	0.31	16.0	1.1026	-1					
	960	Not Detected	923	30	Poor correlation - no reading										
	960	Not Detected	923	100	30.40	-0.71	0.30	15.6	1.07713	-1					
b	960	Not Detected	923	10	Poor correlation - no reading										
	1090	Not Detected	793	100	31.36	-0.82	0.31	16.1	1.11122	-1					
	1201	Not Detected	682	100	31.47	-0.71	0.31	16.2	1.11502	-1					
	1350	Not Detected	533	100	31.80	-0.54	0.32	16.3	1.12659	-1					
b	1350	Not Detected	533	30	31.66	-0.48	0.32	16.3	1.1216	-1					
	1480	Not Detected	403	100	31.11	-0.76	0.31	16.0	1.10231	-1					
	1623	Not Detected	260	100	27.73	-0.81	0.28	14.2	0.98268	-2					
	1400	Not Detected	483	100	32.13	-0.72	0.32	16.5	1.1384	-1					
	1530	Not Detected	353	100	30.55	-0.84	0.31	15.7	1.08256	-2					
	1580	Not Detected	303	100	28.41	-1.37	0.28	14.6	1.00751	-3					
	1662	Not Detected	221	100	26.75	-0.52	0.27	13.7	0.94772	-1					
	1700	Not Detected	183	100	25.41	-0.35	0.25	13.0	0.90016	-1					
	1725	Not Detected	158	100	23.89	-0.27	0.24	12.3	0.84629	-1					
	1751	Not Detected	132	100	21.43	-0.23	0.21	11.0	0.75914	-1					
	1775	Not Detected	108	100	19.97	-0.01	0.20	10.3	0.70738	0					
	1795	Not Detected	88	100	18.12	0.06	0.18	9.3	0.64185	0					
	Boundary Position		1883												
	Clear Width		1585												

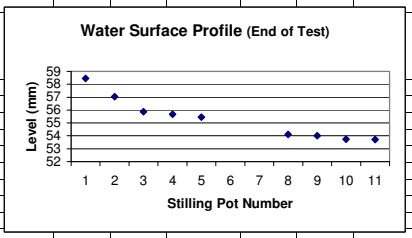
Flume Width:	1724								Estimated Cross-section Average Depth:						-209.2	mm														
Vegetation:	1 Frame	Approximate Height of top of Propeller shaft above							Flume Width				0		1724	mm														
Chainage 10m		bottom at Mark L0.7:				27	mm		Average	according to V-notch reading					-0.082		-0.082		m/s										
									Velocity	according to pipe flowmeter reading					-0.079		-0.079		m/s										
Date:	26-Jan-06	Temp:	20.2	℃																										
Gate Position (mm)		1022																												
Time			13:22	15:16																										
Q_pipe	(m3/h)		102.4	102.4				Average for test																						
Q_pipe	(m3/s)		0.028 4	0.028 4				0.028 4																						
V-notch	(mm)		211	211																										
V-notch	(m3/s)		0.029 7	0.029 7				0.029 7																						

Location	**Level**	**Level at no depth at 10L0.7**	**Base Level checked After Test**	**Height above bed at 10 L0.7**	**Difference**	**Sws**
SP2 - Start	264.78	60.04		-204.75		
SP2 - End	264.69	59.97	316.74	-204.72		
SP10 - Start	268.72	60.77		-207.95	3.94	0.000 40
SP 10 - End	268.64	60.77	317.54	-207.87	3.95	0.000 39
Target - Min	0.00				0	
Target - Max	0.00				0	
Difference			0.80	=> Slope Corect to within 0.06.		
Right Wall to edge of Vegetation:		126	126			
		0	20			
		0	0.28			

Lateral	Mark	Dist from Interface	Propeller Serial	Speed															V	Range Warning	V/SQRT(Sws)
(mm)		(mm)		(Hz)																	
				1	2	3	4	5	6	7	8	9	10	11	12	13	Aver	SD	(m/s)		
264		1514	2043	39.2	40.1	39.3	39.5	39.6	39.2	40.8	40.3	40.4	40.0	38.6	40.6		39.8	0.7	0.270	Propeller 2043 OK	13.5
324		1454	2043	42.1	44.6	44.5	43.0	42.9	43.9	42.2	43.7	41.4	42.3	43.3	43.2		43.1	1.0	0.289	Propeller 2043 OK	14.5
482	L0.7	1296	2043	43.4	44.6	45.0	46.8	44.7	44.3	43.7	41.9	43.6	44.5	45.3	43.0		44.2	1.2	0.296	Propeller 2043 OK	14.8
600		1178	2043	44.8	44.0	45.3	44.5	46.1	45.2	43.9	44.9	45.9	44.6	43.3	43.6		44.7	0.9	0.298	Propeller 2043 OK	15.0
750		1028	2043	43.1	41.5	42.7	43.2	40.7	43.3	43.8	44.9	44.6	45.1	42.7	43.0		43.2	1.3	0.290	Propeller 2043 OK	14.5
900		878	2043	46.8	45.1	46.1	46.2	44.7	44.7	42.8	47.0	44.2	46.6	46.2	43.9		45.4	1.3	0.302	Propeller 2043 Out of Range	15.2
1050		728	2043	45.2	46.0	45.7	46.6	45.7	46.2	45.9	43.8	43.9	46.7	46.6	45.0		45.6	1.0	0.304	Propeller 2043 Out of Range	15.2
750		1028	2043	44.0	41.9	43.3	44.0	42.5	41.2	45.0	42.4	44.1	41.4	42.0	41.0		42.7	1.3	0.287	Propeller 2043 OK	14.4
800		978	2043	43.8	44.3	45.1	44.3	45.4	42.6	43.5	46.0	43.6	42.2	43.9	43.6		44.0	1.1	0.295	Propeller 2043 OK	14.8
675		1103	2043	43.5	44.9	42.9	40.8	43.5	43.1	43.0	44.9	43.4	44.4	42.1	43.1		43.3	1.1	0.290	Propeller 2043 OK	14.6
1200		578	2043	47.6	47.4	46.9	46.7	45.9	46.7	45.2	43.9	47.5	46.7	47.5	47.4		46.6	1.1	0.310	Propeller 2043 Out of Range	15.5
1302		476	2043	46.6	46.9	46.4	44.9	47.1	48.3	44.4	45.8	44.1	47.3	44.9	45.9		46.1	1.3	0.306	Propeller 2043 Out of Range	15.4
1400		378	2043	47.2	47.0	46.6	47.4	43.7	44.8	47.6	46.7	46.0	45.4	44.0	44.7		45.9	1.4	0.306	Propeller 2043 Out of Range	15.3
1500		278	2043	41.7	41.6	42.3	44.4	43.9	43.0	40.6	42.7	41.0	39.8	42.9	41.9		42.2	1.3	0.284	Propeller 2043 OK	14.2
1600		178	2043	37.1	36.2	36.5	34.9	37.8	36.0	36.2	35.4	35.1	32.2	35.4	34.7		35.6	1.4	0.246	Propeller 2043 OK	12.3
1675		103	2043	25.2	7.1	11.0	0.8	3.6	22.0	3.3	0.0	2.2	0.0	0.0	6.4		6.8	8.6	Too Variable	Propeller 2043 OK	Too Variable
1640		138	2043	25.8	33.7	34.0	33.4	29.7	31.4	25.8	28.9	34.4	31.6	27.3	28.5		30.4	3.2	Too Variable	Propeller 2043 OK	Too Variable
1660		118	2043	15.3	3.3	16.9	1.6	13.0	22.7	21.3	3.8	19.6	16.5	12.4	16.6		13.6	7.1	Too Variable	Propeller 2043 OK	Too Variable
1680		98	2043	4.4	0.0	1.3	10.0	12.9	4.0	8.3	0.0	0.1	3.5	0.0	0.0		3.7	4.5	Out of Range	Propeller 2043 out of range	Out of Range
1700		78	2043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0		0.5	1.6	Out of Range	Propeller 2043 out of range	Out of Range
1700		78	2043	23.7	24.0	18.8	20.4	14.5	4.9	1.9	15.3	2.3	13.1	22.5	1.1		13.5	8.9	Too Variable	Propeller 2043 OK	Too Variable
1770		8	2043	0.0	0.0	0.0											0.0	0.0	Out of Range	Propeller 2043 out of range	Out of Range
1750		28	2043	0.0	0.0	0.0											0.0	0.0	Out of Range	Propeller 2043 out of range	Out of Range
1728		50	2043	4.0	0.0	1.4	2.5	1.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0		1.4	2.3	OOR	Propeller 2043 out of range	OOR
1708		70	2043	15.1	10.6	15.8	15	22.7	11	20.3	10.3	20.3	18.5	18.8	14.2		16.0	4.1	Too Variable	Propeller 2043 OK	Too Variable
1728		50	2043	0.000	5.5	0.0	1.5	0.3	3.4	10.7	8.6	0.0					3.3	4.1	Too Variable	Propeller 2043 out of range	Too Variable
1718		60	2043	6.3	6.4	16.3	11.0	12.1	0.3	16.3	4.2	0.0	5.4	9.9	12.0		8.4	5.5	Too Variable	Propeller 2043 OK	Too Variable
1708		70	2043	5.2	16.9	8.4	8.2	11.9	4.7	3.8	8.3	23.7	7.1	2.0	12.0		9.4	6.1	Too Variable	Propeller 2043 OK	Too Variable
1698		80	2043	0.0	1.4	8.0	19.6	18.7	14.4	9.4	0.0	8.7	12.1	6.0	0.0		8.2	7.1	Too Variable	Propeller 2043 OK	Too Variable
1678		100	2043	0.0	0.0	0.0											0.0	0.0	OOR	Propeller 2043 out of range	OOR
1653		125	2043	30.7	31.7	31.6	30.8	33.0	31.0	34.2	28.5	29.9	31.5	33.9	32.2		31.6	1.6	0.222	Propeller 2043 OK	11.2 Propeller cleaned first
1678		100	2043	29.3	25.6	28.3	26.3	27.5	19.5	31.5	27.2	18.1	27.0	32.7	27.5		26.7	4.2	Too Variable	Propeller 2043 OK	Too Variable
1703		75	2043	20.9	17.4	4.1	12.5	24.2	15.4	9.0	8.5	11.8	16.6	9.6	18.0		14.0	5.8	Too Variable	Propeller 2043 OK	Too Variable
1693		85	2043	12.6	18.6	11.6	9.3	14.1	3.9	7.3	0.0	3.5	0.1	0.0	0.0		6.8	6.5	Too Variable	Propeller 2043 OK	Too Variable

Flume Width:	1349		Clear width:	1223				Estimated Cross-section Average Depth:				59.9	mm	
Vegetation:	1 Frame	Approximate Height of probe centre above bottom at						Flume Width			0	1349	mm	
Chainage 10m		Mark L0.7:				27	mm	Average	according to V-notch reading			0.258	0.258	m/s
								Velocity	according to pipe flowmeter reading			0.244	0.244	m/s
Date:	13-Feb-06	Measured Temp:	20	℃				Fr =	0.34					
Gate Position (mm)	1021		Break Begin	Break end										
Time		15:33	16:14	19:46	22:19									
Q_pipe	(m3/h)	71.3	71.3	71.3	70.1			Average for test						
Q_pipe	(m3/s)	0.019 8	0.019 8	0.019 8	0.019 5			0.019 7						
V-notch	(mm)	183	183	183	183									
V-notch	(m3/s)	0.020 9	0.020 9	0.020 9	0.020 9			0.020 9						

Location	Level	Level at no depth at 10L0.7		Height above bed at 10 L0.7	Difference	Sws
SP2 - Start	265.57	329.78		64.21		
SP2 - End	265.74	329.31		63.57		
SP10 - Start	269.42	330.57		61.15	3.85	0.000 383
SP 10 - End	269.57	330.57		61.00	3.83	0.000 321
Target - Min	0.00				0.00	
Target - Max	0.00				0	
Difference		0.79				
		1.26				
Right Wall to edge of Vegetation:		126	126			



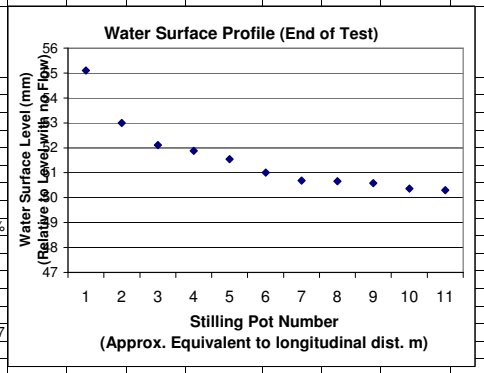
Stilling Pot	1	2	3	4	5	6	7	8	9	10	11
Before Test - empty flume	322.78	322.78	322.98	323.17	323.26	Dry	Dry	323.19	323.27	323.30	323.46
End of Test	264.33	265.74	267.12	267.49	267.8			269.09	269	269.57	269.74
Difference (WS profile)	58.45	57.04	55.86	55.68	55.46			54.1	54.01	53.73	53.72

Flitered According to:	Average SNR >	7	Average Correlation >		50%	Velocity Threshold 3 standard deviations

Comment or file name addendum	Lateral	Dist L. Wall Meas Sample Vol	Dist Interface	Nominal Velocity Range	Vx	Vy	V	V/SQRT (Sws)	Angle
	(mm)	(mm)	(mm)	(cm/s)	(cm/s)	(cm/s)	(m/s)		(°)
Period 80s. Very Good SNR and Correlation	325	31	1188	100	22.84	-1.07	0.23	12.2	-2.6822
	377	83	1136	100	25.64	-0.79	0.26	13.7	-1.7648
	402	107	1111	100	26.27	-0.70	0.26	14.0	-1.5264
	441	148	1072	100	25.63	-0.55	0.26	13.7	-1.2293
	500	209	1013	100	26.36	-0.60	0.26	14.1	-1.3039
	602	312	911	100	26.49	-0.71	0.26	14.1	-1.5353
Stopped for break after reading	450	156	1063	100	25.66	-0.62	0.26	13.7	-1.3841
Resumed	751	Not Detected	762	100	26.75	-0.85	0.27	14.3	-1.82
SNR y a bit low. Very poor x correlation with 100 cms range.	900	Not Detected	613	30	26.91	-0.83	0.27	14.4	-1.7666
	951	Not Detected	562	100	27.18	-0.77	0.27	14.5	-1.6227
	1073	Not Detected	440	100	26.53	-0.82	0.27	14.1	-1.7704
	1200	Not Detected	313	100	23.69	-0.62	0.24	12.6	-1.4992
	990	Not Detected	523	100	27.46	-0.85	0.27	14.6	-1.773
	1020	Not Detected	493	100	27.01	-0.85	0.27	14.4	-1.8025
	1051	Not Detected	462	100	26.61	-0.87	0.27	14.2	-1.8726
	1100	Not Detected	413	100	26.27	-0.91	0.26	14.0	-1.9839
	1125	Not Detected	388	100	25.57	-0.84	0.26	13.6	-1.8815
	1150	Not Detected	363	100	25.10	-0.70	0.25	13.4	-1.5975
	1175	Not Detected	338	100	24.64	-0.71	0.25	13.1	-1.6505
	1225	Not Detected	288	100	23.17	-0.64	0.23	12.4	-1.5822
	1250	Not Detected	263	100	22.41	-0.48	0.22	11.9	-1.227
	1275	Not Detected	238	100	20.60	-0.35	0.21	11.0	-0.9734
	1300	Not Detected	213	100	20.38	-0.38	0.20	10.9	-1.0682
	1325	Not Detected	188	100	17.74	-0.76	0.18	9.5	-2.4531
	1351	Not Detected	162	100	19.72	-0.16	0.20	10.5	-0.4649
	1375	Not Detected	138	100	17.40	-0.07	0.17	9.3	-0.2305
	1400	Not Detected	113	100	16.30	-0.06	0.16	8.7	-0.2109
	1420	Not Detected	93	100	14.99	-0.01	0.15	8.0	-0.0382
Period increased to 200s.	1337	Not Detected	176	100	19.47	-0.27	0.19	10.4	-0.7945
72mm long Gap produced Ch 10.2. All further measurements t	1337	Not Detected	176	100	18.75	-0.13	0.19	10.0	-0.3972
Period decreased to 180s.	1400	Not Detected	113	100	16.47	0.03	0.16	8.8	0.10436
	1426	Not Detected	87	100	14.65	0.13	0.15	7.8	0.50841
	1450	Not Detected	63	100	12.99	0.08	0.13	6.9	0.35286
	1475	Not Detected	38	100	10.34	0.13	0.10	5.5	0.72032
	1500	Not Detected	13	100	5.90	-0.19	0.06	3.1	-1.8445
SNR y a bit low.	1525	Not Detected	-12	100	2.37	-0.80	0.03	1.3	-18.652
	1545	Not Detected	-32	83(100)	2.04	-0.74	0.02	1.2	-19.938

Flume Width:	1988		Clear width:		1223				Estimated Cross-section Average Depth:					60.3	mm	
Vegetation:	2 Frames	Approximate Height of probe centre above bottom at Mark L0.7:							Flume Width			0		1988	mm	
Chainage 10.07m		(From Prev. Test - Not Adjusted)					27	mm	Average	according to V-notch reading				0.166	0.166	m/s
									according to pipe flowmeter reading				0.158	0.158	m/s	
Date:	15-Feb-06	Measured Temp:	21.8	ºC				Fr =	0.22							
Gate Position (mm)	1025		Break Begin	Break end												
Time		13:35														
Q_pipe	(m3/h)	68.2	68.2				Average for test									
Q_pipe	(m3/s)	0.018 9	0.018 9					0.018 9								
V-notch	(mm)	179	180													
V-notch	(m3/s)	0.019 7	0.020 0					0.019 9								

Location	**Level**	**Level at no depth at 10L0.7**		**Height above bed at 10 L0.7**	**Differenc**	**Sws**	
SP2 - Start	264.89	329.30	331.59	64.41			
SP2 - End	265.17	329.55	331.59	64.38			
SP10 - Start	269.00	330.56	330.56	61.56	4.11	0.000 356	
SP 10 - End	269.06	330.56	330.56	61.50	3.89	0.000 357	
Target - Min	268.87				4.36		
Target - Max	270.27				4.19		
Difference		1.26					
	No Q D2-10 used:	Max	Min	Min slope	Vel Error	Max Slope	Vel Error
	1.13	1.26	0.67	0.000 299	-9.4%	0.000 373	2.0%
	mm	mm	mm				
		1.01					
Right Wall to edge of Vegetation:		254	254				
Gap in vegetation frames for probe 91mm in strip nearer to interface and 118mm in strip further away.							
Stilling Pot	1	2	3	4	5	6	7
Before Test - No Flow	318.22	318.17	318.35	318.66	318.8	318.98	319.17
During Test: Time	13:56		14:04	14:29			
During Test: WS level	264.16	264.89	266.33	266.82			
End of Test	263.12	265.17	266.24	266.78	267.25	267.98	268.49
Difference (WS profile)	55.10	53.00	52.11	51.88	51.55	51.00	50.68



											269						
								268.61	268.81	269.06	269.28						
								50.66	50.58	50.37	50.30						

Flitered According to:	Average SNR >	7	Average Correlation >			50%		Velocity Threshold 3 standard deviations				
Comment or file name addendum	**Lateral**	**Dist L. Wall Meas Sample Vol**	**Dist Interface**	**Dist Interface**	**Dist Interface + Meas Dist**	**NominalVelocity Range**	**Vx**	**Vy**	**V**	**V/SQRT (Sws)**	**Angle**	**Q**
Started with 180s period. Temperature set in ADV to 20℃	(mm)	(mm)	(mm)	(m)		(cm/s)	(cm/s)	(cm/s)	(m/s)		(°)	(l/s)
			-154	-0.154					0			
	1651	Not Detected	-138	-0.138	-0.138	100	1.57	-0.50	0.016	0.9	-17.66519	0.00795
	1625	_Not Recorded	-112	-0.112		38 (100)	1.58	-0.39	0.016	0.9	-13.86547	0.02569
	1612	32	-99	-0.099		43 (100)	1.64	-0.47	0.017	0.9	-15.99153	0.01307
Filtering Changed Vx from 1.45 to 1.55.	1606	Not Detected	-93	-0.093		100	1.55	-0.42	0.016	0.9	-15.16124	0.00599
Filtering Changed Vx from 3.35 to 3.29.	1600	Not Detected	-87	-0.087		100	3.29	-0.87	0.034	1.8	-14.81212	0.00907
b	1600	Not Detected	-87	-0.087		37 (100)	1.72	-0.45	0.018	0.9	-14.66155	0
	1593	21.5	-80	-0.080		35 (100)	1.34	-0.58	0.015	0.8	-23.40469	0.00684
	1587	Not Detected	-74	-0.074		100	1.64	-0.87	0.019	1.0	-27.94541	0.006
	1581	Not Detected	-68	-0.068		100	1.53	-0.58	0.016	0.9	-20.76096	0.00632
	1575	Not Detected	-62	-0.062		69 (100)	1.71	-0.45	0.018	0.9	-14.74356	0.00616
Temperature setting in ADV corrected to measured temperature of 21.8℃. Filtering changed Vx from 0.32 to 0.46	1560	Not Detected	-47	-0.047		100	0.46	-0.74	0.009	0.5	-58.13402	0.01194
	1545	Not Detected	-32	-0.032		85 (100)	1.71	-0.79	0.019	1.0	-24.79638	0.01247
	1540	Not Detected	-27	-0.027		100	1.04	-0.48	0.011	0.6	-24.77514	0.00457
	1520	29	-7	-0.007		100	2.88	-0.60	0.029	1.6	-11.76829	0.02466
Filtering Changed Vx from 4.63 to 4.55	1500	36.5	13	0.013		100	4.55	-0.43	0.05	2.4	-5.398732	0.04532
	1475	Not Detected	38	0.038		100	8.63	0.01	0.09	4.6	0.0663914	0.09955
	1460	Not Detected	53	0.053		100	10.70	0.06	0.11	5.7	0.3212814	0.08746
	1445	Not Detected	68	0.068		100	11.62	0.07	0.12	6.2	0.3451511	0.10099
	1430	Not Detected	83	0.083		100	12.72	0.09	0.13	6.7	0.4053879	0.11013
	1415	Not Detected	98	0.098		100	13.99	-0.04	0.14	7.4	-0.163819	0.12086
	1400	Not Detected	113	0.113		100	14.43	0.01	0.14	7.6	0.039706	0.12859
	1380	Not Detected	133	0.133		100	15.97	-0.04	0.16	8.5	-0.143508	0.1834
	1355	Not Detected	158	0.158		100	17.41	-0.07	0.17	9.2	-0.230367	0.25173
	1335	Not Detected	178	0.178		100	18.77	-0.10	0.19	9.9	-0.305249	0.21828
	1330	Not Detected	183	0.183		100	19.34	0.00	0.19	10.2	0	0.05748
	1326	Not Detected	187	0.187		100	18.88	0.02	0.19	10.0	0.0606947	0.04612
	1305	Not Detected	208	0.208		100	19.12	-0.35	0.19	10.1	-1.048707	0.24074
	1280	Not Detected	233	0.233		100	20.73	-0.20	0.21	11.0	-0.552764	0.30055
	1255	Not Detected	258	0.258		100	22.06	-0.26	0.22	11.7	-0.675259	0.32271
	1230	Not Detected	283	0.283		100	23.02	-0.41	0.23	12.2	-1.020364	0.34
	1200	Not Detected	313	0.313		100	23.62	-0.38	0.24	12.5	-0.921698	0.42213
	1175	Not Detected	338	0.338		100	25.04	-0.45	0.25	13.3	-1.029566	0.36701
	1150	Not Detected	363	0.363		100	25.93	-0.44	0.26	13.7	-0.972145	0.38444
	1125	Not Detected	388	0.388		100	26.81	-0.55	0.27	14.2	-1.175243	0.3978
	1100	Not Detected	413	0.413		100	27.12	-0.53	0.27	14.4	-1.119576	0.40678
	1075	Not Detected	438	0.438		100	27.69	-0.60	0.28	14.7	-1.241318	0.41342
	1050	Not Detected	463	0.463		100	27.66	-0.60	0.28	14.6	-1.242664	0.41751
	1025	Not Detected	488	0.488		100	27.67	-0.62	0.28	14.7	-1.283608	0.41736

	1000	Not Detected	513	0.513		100	27.78	-0.43	0.28	14.7	-0.886797	0.41824
	950	Not Detected	563	0.563		100	27.88	-0.65	0.28	14.8	-1.335564	0.83966
	915	Not Detected	598	0.598		100						
No Reading Possible - Poor Correlation at 100cms Range and poor SNR at 30cms range.	900	Not Detected	613	0.613		100						
	850	Not Detected	663	0.663		100	27.63	-0.70	0.28	14.6	-1.451266	1.67496
No Reading Possible - Poor Correlation at 100cms Range and poor SNR at 30cms range.	800	Not Detected	713	0.713		100						
No Reading Possible - Poor Correlation at both 100cms and 30cms ranges.	775	Not Detected	738	0.738		100						
Period approx 120s	750	Not Detected	763	0.763		100	26.96	-0.77	0.27	14.3	-1.63597	1.64731
	675	Not Detected	838	0.838		100	27.13	-0.69	0.27	14.4	-1.456895	1.22417
	600	311	913	0.913	1224	100	27.05	-0.27	0.27	14.3	-0.57188	1.22598
Period for further measurements reduced to 90s.	550	259	963	0.963	1222	100	27.77	-0.61	0.28	14.7	-1.258365	0.82694
	500	209	1013	1.013	1222	100	26.37	-0.78	0.26	14.0	-1.694262	0.81684
	474	183	1039	1.039	1222	100	27.17	-0.61	0.27	14.4	-1.286145	0.42005
	450	Not Detected	1063	1.063		100	26.38	-0.80	0.26	14.0	-1.73702	0.38782
	425	132	1088	1.088	1220	100	24.79	-0.83	0.25	13.1	-1.917618	0.38608
	400	107	1113	1.113	1220	100	25.34	-0.78	0.25	13.4	-1.763086	0.37824
	375	Not Detected	1138	1.138		100	24.56	-0.60	0.25	13.0	-1.399456	0.37645
	350	56	1163	1.163	1219	100	22.71	-0.99	0.23	12.0	-2.496122	0.35669
Filtering Changed Vx from 19.99 to 20.05 cm/s.	325	32	1188	1.188	1220	100	20.05	-1.32	0.20	10.6	-3.766656	0.32295
	310	16	1203	1.203	1219	38 (100)	22.29	-0.86	0.22	11.8	-2.209508	0.19185
	Interface Position:	1513	1223	1.223					0.15			0.22507
TOTAL												**17.7**

Average Velocities								End Angles		
								Ch	End Dist	Angle
Full Width								(m)	(mm)	(°)
No Vegetation								5a	7	0
Chainage 5m						Perpendicular		5a	32	1.957528
y	Vx	Vy		V	Angle	Velocity		5b	22	1.080924
373	-14.77	-1.13		0.15	4.374973	-0.007		5b	18	0.285051
400	-16.21	-1.08		0.16	3.811729	-0.006		5b	14	0.808013
500	-16.95	-1.08		0.17	3.645776	-0.006		5b	10	0.767798
600	-15.13	-1.50		0.15	5.661847	-0.010		5b	8	0.39405
700	-16.79	-1.26		0.17	4.291698	-0.007		5b	6	0
800	-17.17	-1.14		0.17	3.798571	-0.006				
900	-17.50	-1.18		0.18	3.857533	-0.006				
1000	-16.94	-1.37		0.17	4.623657	-0.009				
1100	-17.29	-1.53		0.17	5.056958	-0.010		10	26	-0.965297
1200	-17.16	-1.21		0.17	4.033411	-0.007		10	21	-2.484961
1300	-17.39	-0.98		0.17	3.225448	-0.005		10	16	-0.941628
1400	-17.59	-0.87		0.18	2.831537	-0.003		10	12	-0.162464
1500	-17.40	0.72		0.17	-2.369508	0.012		10	10	-0.885186
1600	-16.48	-0.79		0.16	2.744481	-0.003		10	8	-0.606282
1700	-17.01	-0.78		0.17	2.625481	-0.003		10	6	0.722937
1799	-17.19	-0.61		0.17	2.032331	-0.001				
1899	-18.20	-0.75		0.18	2.359755	-0.002				
1995	-18.38	-0.70		0.18	2.181048	-0.001		2	28	0.394642
2035	-18.24	-0.61		0.18	1.915428	-0.001				
2060	-18.14	-0.62		0.18	1.957528	-0.001		6	6	0.262622
2085	-2.97	0.00		0.03	0	0.001				
Chainage 5m Additional M easurements										
373	-16.19	-0.73		0.16	2.581693	-0.002				
600	-15.62	-1.12		0.16	4.101257	-0.006				
1800	-17.06	-0.80		0.17	2.684822	-0.003				
1850	-17.99	-0.71		0.18	2.260084	-0.002				
1900	-18.28	-0.71		0.18	2.224265	-0.002				
1950	-18.35	-0.64		0.18	1.997517	-0.001				
2000	-18.31	-0.66		0.18	2.064383	-0.001				
2050	-16.43	-0.58		0.16	2.021775	-0.001				
2060	-17.57	-0.69		0.18	2.248935	-0.002				
2065	-16.92	-0.35		0.17	1.185027	0.002				
2070	-14.84	-0.28		0.15	1.080924	0.002				
2074	-16.08	-0.08		0.16	0.285051	0.004				
2078	-14.89	-0.21		0.15	0.808013	0.002				
2082	-15.67	-0.21		0.16	0.767798	0.003				
2084	-14.54	-0.10		0.15	0.39405	0.003				
2086	-15.34	0.00		0.15	0	0.005				
2088	-2.83	-0.01		0.03	0.202458	0.001				
2090	-13.90	0.23		0.14	-0.947973	0.007				
2092	-13.06	-0.26		0.13	1.1405	0.001				

Chainage 10m										
800	-14.71	-0.48		0.15	1.868948					
1200	-16.09	-0.68		0.16	2.42001					
1300	-15.93	-0.39		0.16	1.402441					
1500	-11.99	-0.39		0.12	1.863009					
1600	-13.06	-0.23		0.13	1.008933					
1700	-13.12	-0.57		0.13	2.487658					
1800	-11.02	-0.47		0.11	2.442169					
1900	-13.25	-0.13		0.13	0.562129					
2000	-13.93	0.06		0.14	-0.246786					
2025	-3.77	-0.32		0.04	4.851673					
2050	-13.38	-0.37		0.13	1.584009					
2060	-12.51	0.11		0.13	-0.503787					
2070	-11.87	0.20		0.12	-0.965297					
2075	-10.83	0.47		0.11	-2.484961					
2080	-11.56	0.19		0.12	-0.941628					
2084	-10.58	0.03		0.11	-0.162464					
2086	-11.65	0.18		0.12	-0.885186					
2088	-1.89	0.02		0.02	-0.606282					
2090	-9.51	-0.12		0.10	0.722937					
2092	-9.66	0.01		0.10	-0.059312					
376	-12.78	-0.27		0.13	1.210294					
480	-14.22	-0.25		0.14	1.007206					
600	-14.66	-0.14		0.15	0.547146					
1000	-13.92	-0.41		0.14	1.687103					
Chainage 5m with 2 bricks removed										
1500	-16.91	-0.36		0.17	1.219596					
1600	-16.84	-0.51		0.17	1.734675					
1700	-18.15	-0.72		0.18	2.271699					
1800	-18.53	-0.58		0.19	1.792807					
1900	-19.60	-0.69		0.20	2.016213					
1950	-19.74	-0.74		0.20	2.146861					
1400	-16.87	-0.55		0.17	1.86731					
1300	-16.44	-0.42		0.16	1.463442					
Ch 5m All bricks removed										
1300	-17.17	-0.95		0.17	3.166893	-0.004				
1400	-17.39	-0.92		0.17	3.028351	-0.004				
1500	-17.28	-0.67		0.17	2.220425	-0.001				
1600	-16.15	-0.88		0.16	3.118915	-0.004				
1700	-16.63	-0.91		0.17	3.132123	-0.004				
1800	-17.85	-0.82		0.18	2.630226	-0.003				
1900	-18.24	-0.77		0.18	2.417301	-0.002				
1950	-18.10	-0.64		0.18	2.025084	-0.001				
Ch 2m										
375	-15.01	-1.04		0.15	3.963526					
500	-15.60	-0.68		0.16	2.495928					
700	-16.22	-0.34		0.16	1.200845					
900	-16.46	-0.63		0.16	2.191903					
1100	-16.32	-0.99		0.16	3.471409					
1300	-15.90	-1.15		0.16	4.136831					
1500	-15.98	-0.52		0.16	1.863786					
1600	-15.94	-0.17		0.16	0.611036					
1700	-16.36	-0.40		0.16	1.400596					
1800	-16.41	-0.17		0.16	0.593537					
1900	-16.28	-0.36		0.16	1.266776					
1950	-16.19	-0.23		0.16	0.813906					
2000	-17.07	-0.29		0.17	0.973297					
2050	-15.53	-0.30		0.16	1.106671					
2095	-10.41	-0.12		0.10	0.660441					
2070	-15.97	-0.11		0.16	0.394642					
2030	-16.28	-0.29		0.16	1.020517					
2040	-14.90	-0.57		0.15	2.190784					
2045	-15.99	-0.39		0.16	1.397181					
2055	-16.50	-0.33		0.17	1.145763					
2060	-16.50	-0.26		0.17	0.902768					
2010	-16.07	-0.28		0.16	0.998208					
2000	-16.57	-0.29		0.17	1.00266					
1990	-16.70	-0.21		0.17	0.720448					
AVERAGE (°)					1.743708					
AVERAGE (rad)					0.030433					

Ch 8m										
2095	-8.82	-0.26		0.09	1.688502					
2050	-15.38	-0.45		0.15	1.675926					
2000	-14.41	-0.42		0.14	1.669495					
1950	-14.46	0.39		0.14	-1.544947					
1900	-15.62	-0.28		0.16	1.026959					
1800	-15.39	-0.34		0.15	1.265588					
1700	-16.32	-0.43		0.16	1.509282					
1600	-15.72	-0.69		0.16	2.513278					
1500	-17.40	-0.12		0.17	0.395137					
1400	-17.49	-0.23		0.17	0.753417					
1300	-17.31	-0.29		0.17	0.959805					
1200	-18.15	-0.22		0.18	0.69446					
1100	-17.05	-0.25		0.17	0.840054					
1000	-17.52	-0.48		0.18	1.569355					
900	-17.77	-0.48		0.18	1.547287					
800	-15.74	-0.26		0.16	0.94635					
700	-14.83	-0.14		0.15	0.540875					
600	-10.96	-0.68		0.11	3.550297					
500	-10.89	-0.90		0.11	4.724452					
400	-7.17	-0.20		0.07	1.597794					
375	-7.83	-0.94		0.08	6.845659					
Ch 6m										
2090	-13.09	-0.06		0.13	0.262622					
2050	-16.53	-0.52		0.17	1.801814					
2000	-17.80	-0.59		0.18	1.898435					
1950	-19.54	-0.46		0.20	1.348577					
1900	-19.66	-0.71		0.20	2.068277					
1800	-20.03	-0.86		0.20	2.458518					
1700	-20.43	-1.13		0.20	3.165851					
1600	-21.31	-1.35		0.21	3.624875					
1500	-21.54	-1.05		0.22	2.790761					
1400	-21.32	-0.47		0.21	1.262883					
1300	-20.77	-0.43		0.21	1.186021					
1200	-18.98	-0.84		0.19	2.534092					
1100	-20.73	-0.73		0.21	2.016818					
1000	-18.73	-1.16		0.19	3.543957					
900	-19.80	-0.70		0.20	2.024765					
800	-20.20	-0.77		0.20	2.18299					
700	-20.80	-1.08		0.21	2.972304					
600	-21.33	-1.17		0.21	3.13966					
500	-20.95	-1.43		0.21	3.904825					
400	-21.68	-1.50		0.22	3.957884					
375	-20.44	-1.88		0.21	5.255081					

Flume Width:	Full										
Vegetation:	No Veg										
Chainage 9.98m		Vert. Gap:	10.2	mm	Lateral Dist between Propeller and ADV sample vol:				147	mm	
Date:	23-May-05	Temp:	17	℃							
Gate Position (mm)		1020									
Time			11:10		12:40	13:10					
Q_pipe-min	(m3/h)		111.3		111.4	111.9					
Q_pipe-max	(m3/h)		113.0		112.2	112.4		Average			
Q_pipe-min	(m3/s)		0.030 9		0.030 9	0.031 1		0.031 1			
Q_pipe-max	(m3/s)		0.031 4		0.031 2	0.031 2					
V-notch	(mm)	220.5	220.5	220							
V-notch	(m3/s)	0.033 1	0.033 1	0.032 9				0.033 0			
	Lateral Pos:	Bottom	0	0							
		Peak	-63.23	-63.04							
	mm	Continuous	-60.73	-60.88							
		Average Surface	-61.98	-61.96	Estimated Cross-section Average Depth:				60.8	mm	
Ch. 10m L0.7		Depth	62.0	62.0	Flume Width			0	1988	mm	
		Bottom	-2.55		Average	according to V-notch reading			0.274	0.274	m/s
		Peak	-65.46		Velocity	according to pipe flowmeter reading			0.258	0.258	m/s
		Continuous	-62.03		W.S. Slope	0.000 444					
		Average Surface	-63.75								
Ch 2m		Depth	61.2								

	ADV						
Lateral	**Vx**	**Vy**	**Variance(Vy)**	**V**	**V/SQRT(Sws)**	**Sample Vol End Distance Meas by Probe**	**Calc Dist from R. Wall**
(mm)	(cm/s)	(cm/s)	(cm/s)^2	(cm/s)	(m/s)	(mm)	(mm)
384	-25.75	-0.42	1.02	0.258	12.217		1719
500	-26.51	-0.24	1.02	0.265	12.576		1603
651	-27.61	-0.1	1.18	0.276	13.098		1452
701	-28.03	-0.17	1.11	0.280	13.297		1402
885	-29.12	-0.22	1.19	0.291	13.814		1218
1041	-28.56	-0.29	1.17	0.286	13.549		1062
1202	-28.33	-0.43	1.11	0.283	13.441		901
1353	-28.01	-0.12	1	0.280	13.287		750
1500	-28.38	-0.06	1.14	0.284	13.463		603
1650	-28.34	-0.21	1.3	0.283	13.444		453
1800	-26.93	-0.15	1.31	0.269	12.775	307	303
1950	-25.17	-0.02	1.07	0.252	11.940	155.5	153
2050	-22.91	-0.22	0.77	0.229	10.869	54.4	53
2070	-21.31	-0.19	0.72	0.213	10.109	31.8	33
2090	-19.98	-0.04	0.49	0.200	9.478	12.65	13
1000	-29.19	-0.2	1.15	0.292	13.847		1103
900	-29.14	-0.18	1.17	0.291	13.824		1203
800	-28.63	-0.23	1.27	0.286	13.582		1303
		Average 500mm or more from side wall:			**13.520**		

Minature Propeller																		
Lateral	**Calc Dist from R. Wall**	**Propeller Serial**	**Speed**										**V**	**Range Warning**	**Note**			
(mm)	(mm)		(Hz)										(m/s)					
			1	2	3	4	5	6	7	8	9	Aver						
387	1863	1935	38.7	39.8	38.6	40.4	38.4	37.8	38.1	39.4	38.5	38.9	0.288	Propeller 1935 Out of Range				
500	1750	1935	39.1	37.1	35.6	37.5	38.6	37.2	37.3	38.5	34.8	37.3	0.279	Propeller 1935 Out of Range				
700	1550	1935	39.4	40.2	37.7	39.4	39.8	39.9	39.3	40.0	39.9	39.5	0.291	Propeller 1935 Out of Range				
900	1350	1935	38.6	41.5	40.0	40.8	41.5	41.8	41.9	40.2	40.4	40.7	0.298	Propeller 1935 OK				
1000	1250	1935	41.3	41.0	42.8	42.1	42.3	40.1	42.7	44.4	41.4	42.0	0.305	Propeller 1935 OK				
1100	1150	1935	42.4	41.4	42.1	43.0	42.9	43.0	41.3	41.6	40.9	42.1	0.306	Propeller 1935 OK	ADV excl. last bit when velocity meter was moved			
1300	950	1935	41.4	41.7	43.3	40.1	42.5	43.6	42.0	42.2	40.3	41.9	0.305	Propeller 1935 OK				
1500	750	1935	41.6	41.5	42.8	39.4	43.3	40.5	43.7	41.0	41.6	41.7	0.304	Propeller 1935 OK	ADV excl. last bit when velocity meter was moved			
1700	550	1935	43.4	41.8	42.4	42.4	43.6	41.5	43.6	41.1	41.1	42.3	0.307	Propeller 1935 OK				
1900	350	1935	40.5	37.0								38.8	0.287	Propeller 1935 Out o	Propeller Stopped Working after 2 readings			
1900	350	2043	42.8	41.8	42.6	41.8	42.4	43.5	43.3	43.1	42.2	42.6	0.286	Propeller 2043 OK	Height of Propeller uncertain			
2000	250	2043	38.9	40.1	38.8	38.7	38.1	38.5	38.7	40.3	38.7	39.0	0.265	Propeller 2043 OK	Height of Propeller uncertain			
2100	150	2043	35.0	37.4	35.4	37.0	35.9	35.4	35.4	37.9	36.2	36.2	0.249	Propeller 2043 OK	Height of Propeller uncertain			
2138	112	2043	37.7	35.5	35.6	36.1	37.1	35.9	37.2	34.4	36.7	36.2	0.249	Propeller 2043 OK	Height of Propeller uncertain			
												Average 500mm or more from side wall:	0.304					
												Average / SQRT(S):	**14.4**					

Flume Width:	Full							Estimated Cross-section Average Depth:					61.2	mm				
Vegetation:	No Veg	Height of top of Propeller shaft above bottom						Flume Width				0	1988	mm				
Chainage 9.98m		at Mark L0.7:				29	mm	Average Velocity	according to V-notch reading				0.275	0.275	m/s			
									according to pipe flowmeter reading				0.260	0.260	m/s			
Date:	25-May-05	Temp:	16.7	℃				W.S. Slope		0.000 432								
Gate Position (mm)		1020			Closed inlet valve slightly													
Time			14:53	15:03	15:20	16:16												
Q_pipe-min	(m3/h)		114.8	113.7	113.1													
Q_pipe-max	(m3/h)		115.7	115.2	114.8			Average for test										
Q_pipe-min	(m3/s)		0.031 9	0.031 6	0.031 4			0.031 7										
Q_pipe-max	(m3/s)		0.032 1	0.032 0	0.031 9													
V-notch	(mm)		222.5	222.25	221.25	221.25												
V-notch	(m3/s)		0.033 9	0.033 8	0.033 4	0.033 4		0.033 4										
	Lateral Pos:	Bottom	0		-0.01													
		Peak	-62.44	-62.31														
	mm	Continuous	-62.4	-62.4														
		Average Surface	-62.42	-62.355	-62.02													
Ch. 10m L0.7		Depth	62.4	62.4	62.0													
		Bottom			-2.5													
		Peak																
		Continuous																
		Average Surface			-63.65													
Ch 2m		Depth			61.2													
Lateral	**Mark**	**Dist from R. Wall**	**Propeller Serial**	**Speed**										**V**	**Range Warning**	**Note**	**V/SQRT(Sws)**	
(mm)		(mm)		(Hz)										(m/s)				
				1	2	3	4	5	6	7	8	9	Aver					
376	L0.8	1785	2043	38.5	39.4	40.0	41.0	42.3	40.4	40.8	41.4	40.5	40.5	0.274	Propeller 2043 OK		13.17405	
475	L0.7	1686	2043	43.2	39.7	43.0	42.0	43.6	40.3	42.0	41.4	41.1	41.8	0.282	Propeller 2043 OK		13.54655	
600		1561	2043	42.4	43.5	41.3	41.9	41.4	42.3	41.7	43.2	43.2	42.3	0.285	Propeller 2043 OK		13.68934	
700		1461	2043	43.1	42.2	42.7	43.4	43.5	43.8	44.0	43.1	44.3	43.3	0.291	Propeller 2043 OK		13.97492	
900		1261	2043	44.1	43.0	41.9	43.0	43.1	43.9	45.5	44.9	43.1	43.6	0.292	Propeller 2043 OK		14.04942	
1100		1061	2043	44.9	41.0	42.8	42.2	43.4	40.4	40.3	38.2	40.2	41.5	0.280	Propeller 2043 OK		13.45653	
1200		961	2043	41.1	40.2	40.8	41.2	40.1	40.1	41.8	39.6	40.7	40.6	0.275	Propeller 2043 OK		13.2144	
1400		761	2043	39.8	40.0	36.7	37.8	41.5	40.7	41.7	40.3	39.8	39.8	0.270	Propeller 2043 OK		12.9878	
1600		561	2043	39.8	38.7	38.4	37.7	37.9	39.2	39.1	39.2	39.1	38.8	0.264	Propeller 2043 OK		12.70222	
1800		361	2043	38.7	37.2	37.4	38.6	38.3	40.0	39.2	39.9	36.9	38.5	0.262	Propeller 2043 OK	Adjusted Vertical Angle	12.6122	
1950		211	2043	37.5	37.8	37.3	37.2	37.1	38.5	35.9	37.2	37.7	37.4	0.256	Propeller 2043 OK		12.30179	
2000		161	2043	40.0	35.1	37.4	37.2	36.4	38.4	36.5	37.9	39.0	37.5	0.257	Propeller 2043 OK		12.35456	
2100		61	2043	34.3	36.8	36.0	33.6	32.2	33.2	33.1	33.3	32.8	33.9	0.236	Propeller 2043 OK		11.34261	
2120		41	2043	33.1	31.8	31.4	33.1	32.4	31.4	32.6	32.3	34.1	32.5	0.227	Propeller 2043 OK	Adjusted Vertical Angle	10.93597	
2130		31	2043	29.0	29.4	29.6	29.3	29.6	31.1	30.4	30.7	31.2	30.0	0.213	Propeller 2043 OK		10.25616	
2140		21	2043	29.7	26.8	28.1	27.6	28.0	27.3	28.9	28.7	28.6	28.2	0.203	Propeller 2043 OK		9.740876	
															Average 500mm or more from side wall:		**13.398**	