

ACCRETION PROFILING DURING 1997

Accretion profiling was conducted in a number of Eastern Area rivers in low flow periods during 1997 in an attempt to identify the baseflow contribution to rivers during drought years. A series of sites were chosen for repeated measurements during both wet and dry years. Table 1 shows the dates and locations of the accretion profiles.

An accretion profile, basically, shows how the river gains (or loses!) flow along its length. This is done by measuring the flow at various representative points along the river (usually close to where tributaries join the main channel) and then plotting the results on a graph. It is a particularly useful method for identifying and isolating flow anomalies in a river (e.g. a sudden drop in flow) that tend to occur during times of low flows; once identified, mitigation measures or other solutions can be attempted if required.

Agency staff who were involved in accretion profiling during 1997: Toff Andersen, Cath Tomlin, Claire Hammond, Chris Watson, John Waddingham, Nigel King (placement student) and Adam Nicholls. Students assisting were John Caesar and Cathy Block. In total, 19 accretion profiles were completed during 1997. All proposed sites listed may not have been chosen for actual measurements, circumstances sometimes dictating otherwise.

For 1998, it has been planned to extend the accretion profiling to allow for more comprehensive coverage of a greater number of Eastern Area rivers. Funding has been applied for to facilitate this.



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TABLE 1

RIVER	CATCHMENT	ACCRETION PROFILES COMPLETED TO DATE
Bure	34/6	13/02/97
Wensum	34/11	23/06/97
Yare	34/13,15	08/08/97
Alde/Ore/Fromus	35/4	10/6/97, 17/6/97 x3
Deben	35/6	13/11/97
Brett	36/17	05/06/97
Colne	37/21,23	17/4/97, 4/6/97, 6/6/97, 29/7/97, 20/8/97
Brain	37/32	20/06/97
Chelmer	37/35,36	24/04/97
Mardyke	37/56	19/06/97

CATCHMENT:

STIFFKEY

HYDROMETRIC AREA:

34/3

ACCRETION PROFILES COMPLETED:

None

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ACCRETION PROFILE SITES

NORFOLK

Stiffkey - Catchment 34/3

1. **TG 007 303**
2. **Road at TF 995 311**
3. **A149 at TF 976 330**
4. **Great Snoring TF 949 342**
5. **East Barsham TF 917 340**

Houghton boreholes:

6. ***Either* North Barsham TF 918 350 *or* Ford at TF 926 356**
7. **Road bridge at TF 934 365 (provided wier is working)**
8. **Ford in Great Walshingham TF 942 377**
9. **Bridge on tributary TF 945 383**
10. **Stiffkey at Wighton TF 942 397**

Binham stream - abstraction borehole affect on flow:

11. **Binham village bridge TF 983 399**
12. **Ford at TF 962 411**
13. **Stiffkey village TF 975 429**

CATCHMENT:

GLAVEN

HYDROMETRIC AREA:

34/4

ACCRETION PROFILES COMPLETED:

None

ACCRETION PROFILE SITES

NORFOLK

Glaven - Catchment 34/4

1. **TG 128 391**(winter storage reservoir application at top of catchment)
2. **Upstream of Holt SSSI TG 095 380**
3. **Norwich - Holt Road TG 086 363**
4. **Hunworth TG 071 351**
5. **Tributary at TG 050 360**
6. **Footbridge downstream of fork in road - previous site TG 057 377
or ford further downstream at TG 060 383**
7. **Tributary at TG 063 392**
8. **Glandford upstream of mill at TG 045 413**

CATCHMENT:

BURE

HYDROMETRIC AREA:

34/6

ACCRETION PROFILES COMPLETED:

None

ACCRETION PROFILE SITES

NORFOLK

Bure - Catchment 34/6

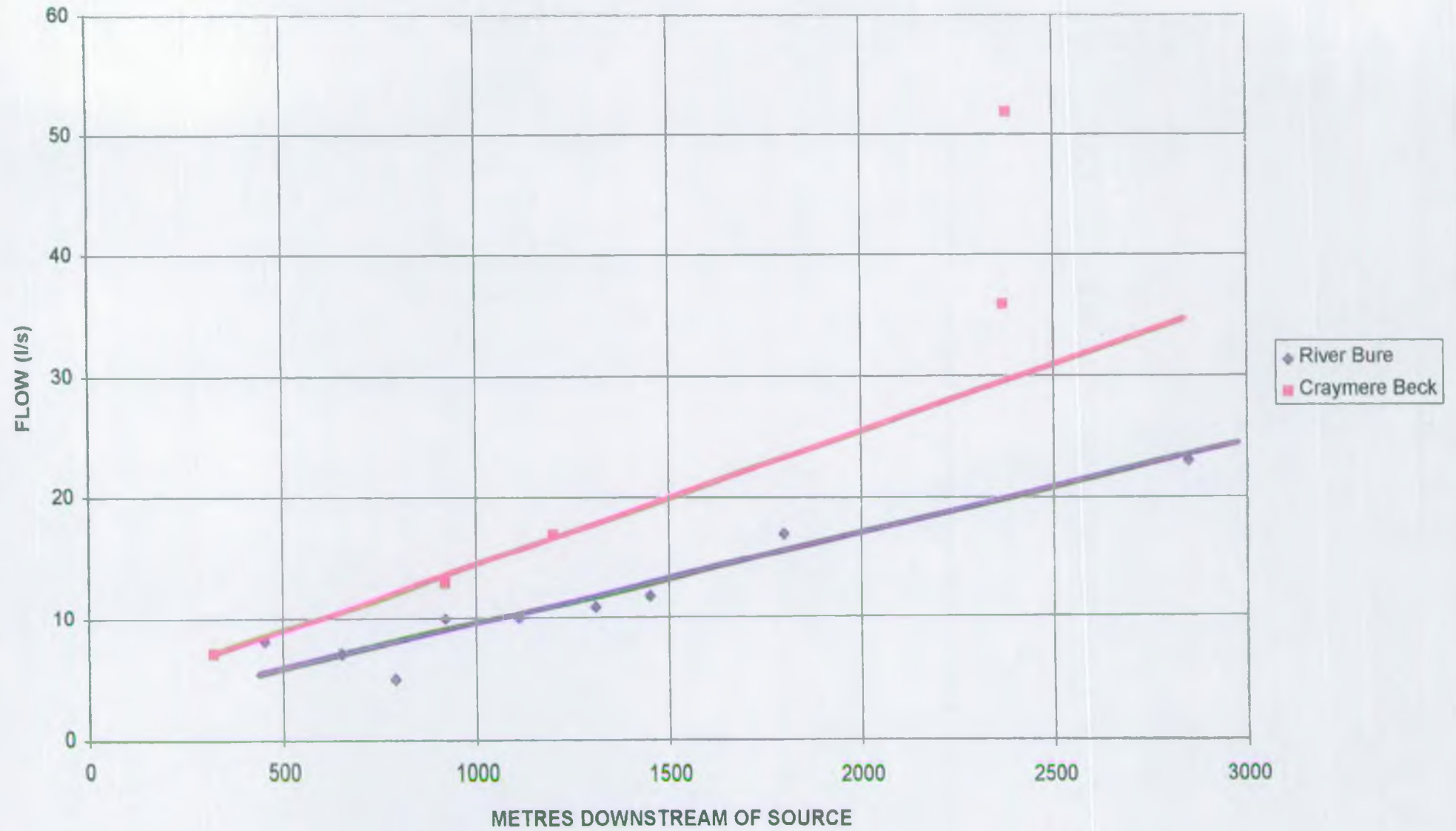
Flow was measured at the following points by Biology during July 1993:

1. Upstream Blk. TG 085 305
2. Blk. Water TG 089 302
3. Edge. Trib. TG 099 312
4. Itteringham Stream TG 146 307
5. Scar Beck TG 182 309
6. Mermaid TG 212 245
7. Kings TG 237 253
8. Stake TG 251 243
9. Camping TG 234 226
10. Spixworth TG 265 166
11. Dobbs TG 268 155
12. Gunton Park SSSI (specifically requested point) TG 223 355

Additional points on Spixworth Beck (for licence renewals and proposals):

13. TG 195 157
14. TG 220 155
15. TG 220 162
16. TG 214 182
17. One point downstream of confluence at Spixworth Bridge TG 239 164
18. Crostwick SSSI TG 260 165

ACCRETION PROFILES FOR R. BURE 13/2/97



CATCHMENT:

WENSUM

HYDROMETRIC AREA:

34/11

ACCRETION PROFILES COMPLETED:

23-24/6/97

06/09/92

ACCRETION PROFILE SITES

NORFOLK

Wensum - Catchment 34/11

Flow was measured at the following points by Mott MacDonald during August 1990:

Main stream:

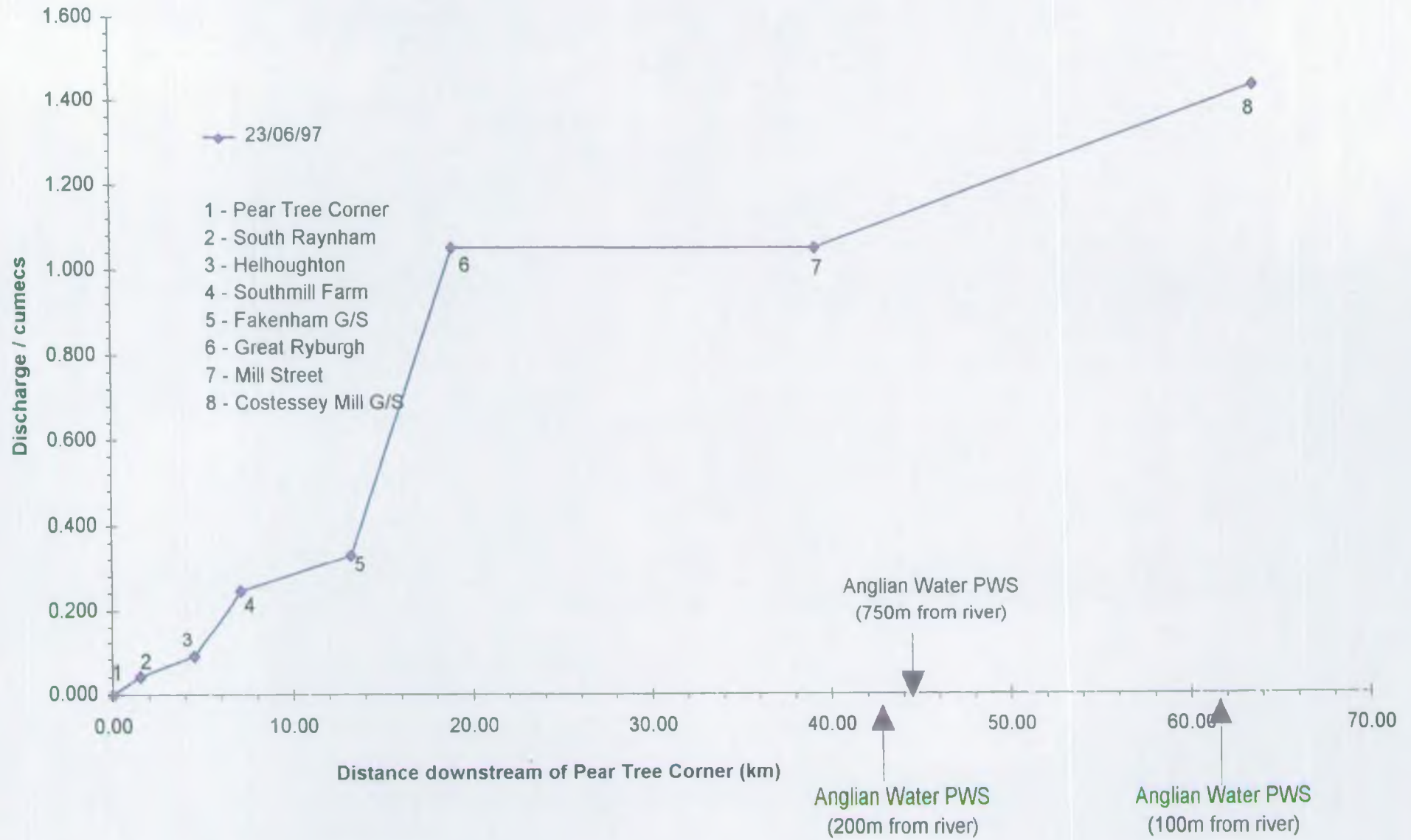
1. Pear Tree Corner TF 899 238
2. South Raynham TF 884 242
3. Helhoughton TF 873 267
4. Doughton TF 882 290
5. Fakenham TF 919 294 (Gauging Station)
6. Great Ryburgh TF 964 270
7. Guist TF 997 250
8. Billingford TG 004 203
9. Swanton Morley TG 020 184 (Gauging Station)
10. Mill Street TG 051 178
11. Lyng TG 072 177
12. Lenwade TG 103 183
13. Attlebridge TG 128 167
14. Ringland TG 142 137
15. Costessy Mill TG 177 128 (Gauging Station)

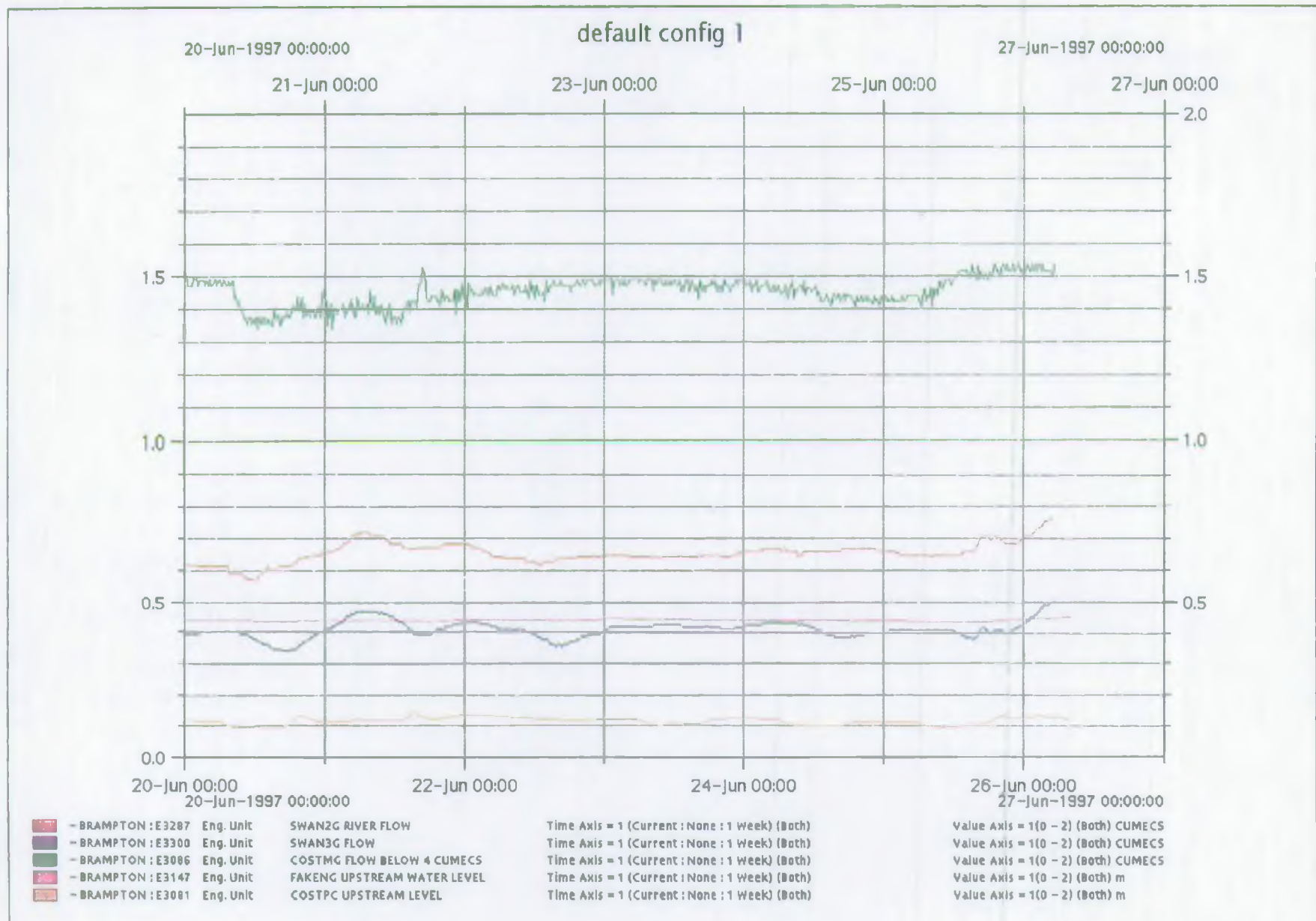
Tributaries:

16. East Rudham TF 833 284
17. Tatterford TF 867 280
18. Worthing TF 999 201
19. Penny Spot Beck TG 035 169

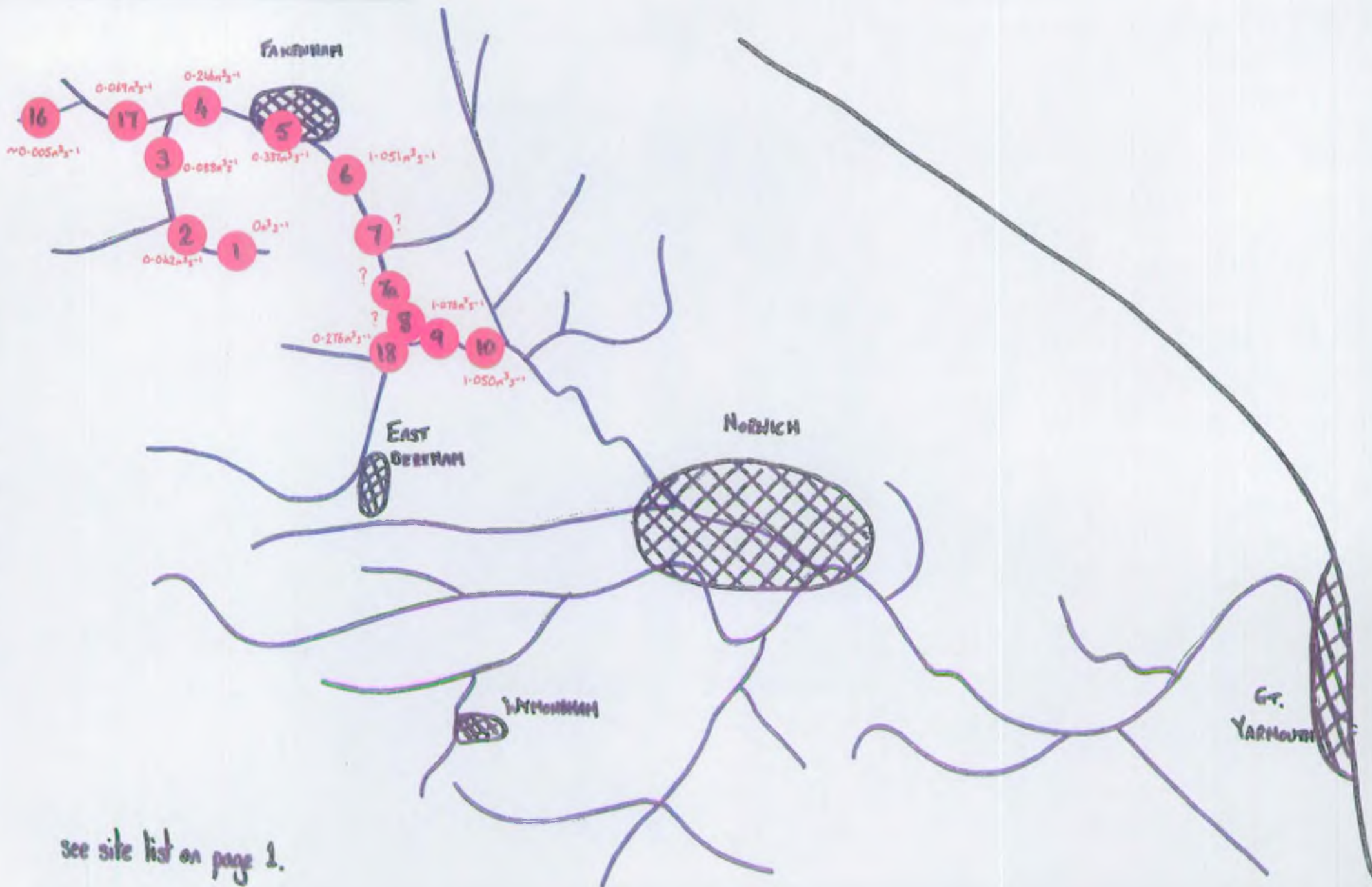
20. **Blackwater Farm TG 082 202**
21. **Whitewater Farm TG 086 203**
22. **Foxford TG 098 189**
23. **Alderford TG 127 186**
24. **River Tud TG 170 113 (Gauging Station)**

Flows in the River Wensum





RIVER WENSUM



see site list on page 1.



Pear Tree Corner, River Nenau ①

TF 899 238

23/6/97



South Raynham, River Wensum ②

TF 884 242

23/6/97



Park House, Helthoughton River Wensum ③

TF 813 267

23/6/97



Southmill Farm, River Wensum

TF 881 282

23/6/97



Great Ryburgh, River Wensum ⑥

TF 963 273

24/6/97



Canty School, River Wensum

IF 992 228

24/6/97



Billingsford, River Wensum ⑧

TG 004 203

24/6/97



Mill Street, River Wensum ⑩

TG 052 178

24/6/97



East Rudham, Trib. of River Wenoum (16)

TF 833 284

23/6/97



Tatterford, Trib. of River Wensum (17)

TF 867 280

23/6/97



Worthing Mill, Wendling Beck (18)
TF 999 201
24/6/97



Watling Mill, Wendling Beck (18)
TF 999 201
24/6/97

Miscellaneous Current Metering Sheet

River: Wensum

Date 23/06/97

Location: South Raynham

Site No. 2

NGR: TF 884 242

Start 10:50 Hrs

Observer CW, CB & JC

Finish 11:05 Hrs

Remarks: u/s of bridge. silt/gravel bed

Counter Time 60 Secs

Meter No 115263

Prop No 3-111168

TOTAL DISCHARGE 0.042 m³/s

or 42 l/s

Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m³/s)	
1	0.3	0	0				0.000	0.000			0
2	0.9	0.1	18	0.600	0.050	0.030	0.300	0.089	0.045	0.0013	1
3	1.2	0.1	18	0.300	0.100	0.030	0.300	0.089	0.089	0.0027	1
4	1.5	0.14	32	0.300	0.120	0.036	0.300	0.089	0.118	0.0042	1
5	1.8	0.14	36	0.300	0.140	0.042	0.533	0.147	0.155	0.0065	1
6	2.1	0.15	35	0.300	0.145	0.044	0.600	0.163	0.161	0.0070	1
7	2.4	0.15	35	0.300	0.150	0.045	0.583	0.159	0.159	0.0071	1
8	2.7	0.15	30	0.300	0.150	0.045	0.583	0.159	0.149	0.0067	1
9	3	0.12	17	0.300	0.135	0.041	0.500	0.138	0.112	0.0045	1
10	3.7	0	0	0.700	0.060	0.042	0.283	0.085	0.043	0.0018	1
11	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
12	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
13	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
AVERAGE VELOCITY				0.129	m/s						

Accretion Profile Summary for the River Wensum

Date: 23/24-06-1997

Observers: CW, CB and JC

Site No.	Site Name	Watercourse	NGR	Discharge (cumecs)	Photo No(s)	Notes
1	Pear tree Corner	Wensum	TF 899 238	0.000	1 d/s	No water u/s of the bridge at all and the river bed was completely grassed over. Puddles of water d/s
2	South Raynham	Wensum	TF 884 242	0.042	2	C/M u/s of bridge. Silt and gravel bed.
3	Park House, Helhoughton	Wensum	TF 873 267	0.088	3	C/M performed 5m u/s of road bridge within the garden of Park House. ~5cm of silt on the river bed, wind gusting upstream.
4	Southmill Farm	Wensum	TF 881 282	0.246	4	Not a very good stretch for metering. C/M d/s side of footing to roadbridge.
5	Fakenham G/S	Wensum	TF 919 294	0.337		
6	Great Ryburgh	Wensum	TF 963 273	1.051	7	C/M under u/s side of roadbridge.
7	Guist	Wensum	TF 997 250	?		At least 1m deep by 10m wide. Completely full of ribbon weed and therefore unable to current meter. Flow hard to estimate, but greater than site 6.
	County School		TF 992 228	?	8	River bed clear around bridge, weedy d/s. Approximately 1m deep in centre by 8m wide.
8	Billingford	Wensum	TG 004 203	?	9	1m deep in the centre by 8m wide. Completely full of ribbon weed, therefore unable to current meter.
9	Swanton Morley G/S	Wensum	TG 020 184	1.076		
10	Mill Street	Wensum	TG 052 178	1.050	12	Quite a lot of ribbon weed, which may have effected the results. C/M performed on the u/s side of roadbridge.
16	East Rudham	Wensum	TF 833 284	~0.005	6 d/s	

17	Tatterford	Trib of Wensum	TF 867 280	0.069	5	C/M 2m d/s from roadbridge.
18	Worthing	Wending Beck	TF 999 201	0.276	10 & 11	LH side of river bed silty up to ~1.5m, also slightly weedy. Fence under bridge to prevent cattle escaping up river, not obstructing the flow too much.

Miscellaneous Current Metering Sheet

River: *Wensum* Date *23.06.97*
 Location: *Park Ho., Helhoughton* Site No. *3*
 NGR: *TF 873 267* Start *11:45* Hrs
 Observer *CW, CB & JC* Finish *12:05* Hrs
 Remarks: *u/s of road bridge in garden. Wind gusting u/s.*

Counter Time *60* Secs

Meter No *115263*

Prop No *3-111168*

TOTAL DISCHARGE *0.088* m³/s or *88* l/s

Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m ²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m ³ /s)	
1	0.5	0	0	0.250	0.080	0.020	0.000	0.000	0.000	0.0000	0
2	0.75	0.16	0	0.250	0.200	0.050	0.000	0.000	0.028	0.0014	1
3	1	0.24	10	0.500	0.310	0.155	0.167	0.057	0.069	0.0107	1
4	1.5	0.38	16	0.500	0.390	0.195	0.267	0.081	0.083	0.0162	1
5	2	0.4	17	0.500	0.365	0.183	0.283	0.085	0.085	0.0156	1
6	2.5	0.33	17	0.500	0.315	0.158	0.283	0.085	0.087	0.0138	1
7	3	0.3	18	0.500	0.295	0.148	0.300	0.089	0.085	0.0126	1
8	3.5	0.29	16	0.500	0.265	0.133	0.267	0.081	0.077	0.0102	1
9	4	0.24	14	0.500	0.195	0.098	0.233	0.073	0.059	0.0057	1
10	4.5	0.15	7	0.500	0.115	0.058	0.117	0.045	0.022	0.0013	1
11	5	0.08	0	0.400	0.040	0.016	0.000	0.000	0.000	0.0000	1
12	5.4	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
13	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
VERAGE VELOCIT <i>0.060</i> m/s											

Miscellaneous Current Metering Sheet

River: *Wensum* Date *23.06.97*
 Location: *Southmill Farm* Site No.
 NGR: *TF 881 282* Start *13:00* Hrs
 Observer *CW, CB & JC* Finish *13:25* Hrs
 Remarks: c/m at base of footbridge, d/s side

Counter Time *60* Secs Meter No *115263* Prop No *3-111168*
 TOTAL DISCHARGE *0.246* m³/s or *246* l/s

Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m ²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m ³ /s)	
1	0.4	0	0	0.800	0.075	0.060	0.000	0.000	0.164	0.0099	0
2	1.2	0.15	76	0.400	0.180	0.072	1.267	0.329	0.326	0.0235	1
3	1.6	0.21	75	0.400	0.230	0.092	1.250	0.324	0.348	0.0320	1
4	2	0.25	86	0.400	0.255	0.102	1.433	0.371	0.413	0.0421	1
5	2.4	0.26	106	0.400	0.270	0.108	1.767	0.455	0.402	0.0435	1
6	2.8	0.28	81	0.400	0.260	0.104	1.350	0.350	0.419	0.0436	1
7	3.2	0.24	114	0.400	0.210	0.084	1.900	0.489	0.400	0.0336	1
8	3.6	0.18	72	0.400	0.140	0.056	1.200	0.312	0.268	0.0150	1
9	4	0.1	51	0.500	0.050	0.025	0.850	0.224	0.112	0.0028	1
10	4.5	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
11	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
12	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
13	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
VERAGE VELOCIT		0.357	m/s								

Miscellaneous Current Metering Sheet

River: *Wensum* Date *24.06.97*
 Location: *Great Ryburgh* Site No. *6*
 NGR: *TF 963 273* Start *09:35* Hrs
 Observer *CW, CB & JC* Finish *10:10* Hrs

Remarks: Under u/s side of bridge

Counter Time 60 Secs				Meter No 115263				Prop No 3-111168			
TOTAL DISCHARGE 1.051 m ³ /s				or 1051 l/s							
Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m ²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m ³ /s)	
1	0	0	0				0.000	0.000			0
2	0.3	0.45	37	0.300	0.225	0.068	0.617	0.167	0.083	0.0056	1
3	0.6	0.45	42	0.300	0.450	0.135	0.700	0.187	0.177	0.0239	1
4	1.2	0.43	38	0.600	0.440	0.264	0.633	0.171	0.179	0.0473	1
5	1.8	0.48	42	0.600	0.455	0.273	0.700	0.187	0.179	0.0489	1
6	2.4	0.5	40	0.600	0.490	0.294	0.667	0.179	0.183	0.0539	1
7	3	0.53	475	0.600	0.515	0.309	7.917	2.007	1.093	0.3378	1
8	3.6	0.5	45	0.600	0.515	0.309	0.750	0.200	1.104	0.3410	1
9	4.2	0.5	42	0.600	0.500	0.300	0.750	0.200	0.193	0.0580	1
10	4.8	0.42	35	0.600	0.460	0.276	0.700	0.187	0.173	0.0478	1
11	5.4	0.4	41	0.600	0.410	0.246	0.683	0.183	0.171	0.0421	1
12	6	0.4	31	0.600	0.400	0.240	0.683	0.183	0.163	0.0391	1
13	6.4	0	0	0.400	0.200	0.080	0.517	0.142	0.071	0.0057	1
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
VERAGE VELOCIT				0.343	m/s						

Miscellaneous Current Metering Sheet

River: *Wensum* Date: *24.06.97*
 Location: *Mill Street* Site No. *10*
 NGR: *TG 052 178* Start *13:00* Hrs
 Observer *CW, CB & JC* Finish *13:20* Hrs

Remarks: Quite a lot of ribbon weed, partic. RH side of stream

Counter Time *60* Secs Meter No *115263* Prop No *3-111168*

TOTAL DISCHARGE *1.050* m³/s or *1050* l/s

Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m ²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m ³ /s)	
1	2.8	0	0	0.350	0.210	0.074	0.000	0.000	0.177	0.0130	0
2	3.15	0.42	82	0.350	0.435	0.152	1.367	0.354	0.320	0.0487	1
3	3.5	0.45	66	0.700	0.500	0.350	1.100	0.286	0.310	0.1084	1
4	4.2	0.55	77	0.700	0.565	0.396	1.283	0.333	0.316	0.1250	1
5	4.9	0.58	69	0.700	0.590	0.413	1.150	0.299	0.322	0.1331	1
6	5.6	0.6	80	0.700	0.600	0.420	1.333	0.345	0.352	0.1478	1
7	6.3	0.6	83	0.700	0.600	0.420	1.383	0.358	0.301	0.1265	1
8	7	0.6	56	0.700	0.610	0.427	0.933	0.244	0.232	0.0992	1
9	7.7	0.62	50	0.700	0.580	0.406	0.833	0.220	0.238	0.0968	1
10	8.4	0.54	59	0.700	0.535	0.375	0.983	0.257	0.322	0.1207	1
11	9.1	0.53	90	0.600	0.265	0.159	1.500	0.388	0.194	0.0308	1
12	9.7	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
13	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0

VERAGE VELOCIT *0.308* m/s

Miscellaneous Current Metering Sheet

River: Trib of Wensum Date 23.06.97
 Location: Tatterford Site No. 17
 NGR: TF 867 280 Start 13:40 Hrs
 Observer CW, CB & JC Finish 14:00 Hrs

Remarks: 2m d/s of bridge

Counter Time 60 Secs				Meter No 115263				Prop No 3-111168			
TOTAL DISCHARGE			0.069	m ³ /s	or	69	l/s				
Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m ²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m ³ /s)	
1	0.5	0	0				0.000	0.000			0
2	0.65	0.11	16	0.150	0.055	0.008	0.267	0.081	0.041	0.0003	1
3	0.8	0.11	30	0.150	0.110	0.017	0.500	0.138	0.110	0.0018	1
4	1.1	0.15	35	0.300	0.130	0.039	0.583	0.159	0.149	0.0058	1
5	1.4	0.15	46	0.300	0.150	0.045	0.767	0.204	0.181	0.0082	1
6	1.7	0.17	46	0.300	0.160	0.048	0.767	0.204	0.204	0.0098	1
7	2	0.15	44	0.300	0.160	0.048	0.733	0.196	0.200	0.0096	1
8	2.3	0.15	42	0.300	0.150	0.045	0.700	0.187	0.191	0.0086	1
9	2.6	0.15	39	0.300	0.150	0.045	0.650	0.175	0.181	0.0082	1
10	2.9	0.17	33	0.300	0.160	0.048	0.550	0.151	0.163	0.0078	1
11	3.2	0.16	29	0.300	0.165	0.050	0.483	0.134	0.142	0.0071	1
12	3.5	0	0	0.300	0.080	0.024	0.000	0.000	0.067	0.0016	0
13	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
VERAGE VELOCIT			0.163	m/s							

Miscellaneous Current Metering Sheet

River: *Wendling Beck*

Date *24.06.97*

Location: *Worthing Mill*

Site No. *18*

NGR: *TF 999 201*

Start *11:20* Hrs

Observer *CW, CB & JC*

Finish *11:45* Hrs

Remarks: *Weedy and silty on LH side of river*

Counter Time *60* Secs

Meter No *115263*

Prop No *3-111168*

TOTAL DISCHARGE *0.276* m³/s or *276* l/s

Reading Number	Distance m	Depth (m)	Revs	Section Width (m)	Average Depth (m)	Area (m ²)	Revs/ sec	Velocity (m/s)	Average Velocity (m/s)	Discharge (m ³ /s)	
1	1.5	0	0				0.000	0.000			0
2	3	0.26	10	1.500	0.130	0.195	0.167	0.057	0.028	0.0055	1
3	4	0.36	10	1.000	0.310	0.310	0.167	0.057	0.057	0.0176	1
4	5	0.48	12	1.000	0.420	0.420	0.200	0.065	0.061	0.0256	1
5	6	0.55	20	1.000	0.515	0.515	0.333	0.098	0.081	0.0419	1
6	7	0.55	22	1.000	0.550	0.550	0.367	0.106	0.102	0.0559	1
7	8	0.48	22	1.000	0.515	0.515	0.367	0.106	0.106	0.0545	1
8	9	0.35	19	1.000	0.415	0.415	0.317	0.094	0.100	0.0414	1
9	10	0.28	13	1.000	0.315	0.315	0.217	0.069	0.081	0.0256	1
10	11.7	0	0	1.700	0.140	0.238	0.000	0.000	0.035	0.0082	0
11	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
12	0	0	31	0.000	0.000	0.000	0.517	0.142	0.071	0.0000	0
13	0	0	0	0.000	0.000	0.000	0.000	0.000	0.071	0.0000	0
14	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
15	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
16	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
17	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
18	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
19	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0
20	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0

VERAGE VELOCIT *0.099* m/s

CATCHMENT

YARE

HYDROMETRIC AREA:

34/13,15

ACCRETION PROFILES COMPLETED:

8/8/97

ACCRETION PROFILE SITES

NORFOLK

Yare - Catchment 34/13; 15

Flow was measured at the following points during November 1991 by Simon Hydrotechnica:

River Yare (upstream of Tiffey):

1. Bridge at Shipdham **TF 950 067**
2. Bridge near Southburgh **TF 997 044**
3. Railway Bridge at Thuxton **TG 029 075**
4. Bridge North of Hardingham **TG 044 058**
5. Bridge at Barnham Broom **TG 076 076**

River Tiffey:

6. Railway Bridge at Crownthorpe (tributary) **TG 084 034**
7. Chapel Bridge, Nr Wyndmonham **TG 095 030**
8. A11 (T) Bridge at Wyndmonham **TG111 011**

River Yare (downstream of Tiffey):

9. Bridge at Marlingford Hall **TG 129 083**
10. Bridge near Hethersett (tributary) **TG 141 077**
11. Bridge at Bow Hill (tributary) **TG 140 055**
12. Bridge at Bawburgh **TG 157 087**
13. Downstream of Gravel abstraction **TG 175 085**
14. Colney Gauging Station
15. Bridge at Earlham **TG 190 082**



COLNEY, PROFILE -TG193 085
08-08-97



COLNEY u/s -TMT6193 085



MARLINGFORD, PROFILE - TG130 083
08-08-97



MARLINGFORD, D/S - TG130 083
08-08-97



MARINEFORD HALL, PROFILE - TG124 085
08-08-97



LOW STREET, D/S - T6044 059
08-08-97



LOW STREET, - T6044 059
08-08-97

Flows on the River Yare 8/8/97

