HPK/2013/0555

HIGH PEAK

11 OCT 2013

NL08528

08/01/2007

creating a better place

TJ/TJP

FAO Tom Jarratt

Environment Agency

Please find enclosed outputs from Glossop Brook supporting studies for your Flood Risk Assessment of Howard Town Mills, Glossop.

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11 JAN 2007

WARDELL ARMSTRONG LLP
STOKE ON TRENT

Kind Regards

[redacted]

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ea/cs/e/std

Addendum to Appendix I

Maximum Water Levels (m AOD) and Peak Flows (m3/s)

	Annual Exceedence Probability (AEP)	2yr 0.5		5yr 0.2		10yr 0.1		25yr 0.04		50yr 0.02		75yr 0.0133		100yr 0.01		100yr + 20% 0.01 + 20%		200yr 0.005	
	iSIS Label	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)	Stage (m AOD)	Flow (m3/s)
	Glossop Brook																		
1	Glos_3735.5	150.632	14.113	150.841	21.326	150.962	26.283	151.12	33.734	151.262	39.528	151.544	41.725	151.695	43.054	152.158	48.238	152.132	47.541
2	Glos_3690.2	150.145	14.113	150.319	21.325	150.436	26.283	150.612	33.732	150.928	39.525	151.129	41.569	151.394	42.919	151.985	48.206	151.953	47.518
3	Glos_3665.0	149.644	14.113	149.861	21.324	150.003	26.283	150.244	33.731	150.744	39.526	151.249	41.634	151.566	43.055	152.163	44.681	152.132	44.377
4	Glos_3647.6	149.396	14.113	149.662	21.324	149.824	26.282	150.066	34.308	150.765	42.398	151.059	46.433	151.285	50.145	151.873	60.04	151.84	59.524
5	Glos_3642.6	149.363	14.113	149.632	21.324	149.789	26.282	150.022	34.308	150.708	42.397	151.004	46.432	151.23	50.146	151.811	60.04	151.779	59.524
6	Glos_3641.5S	149.334	0	149.612	0	149.774	0	150.01	0	150.708	0	151.002	0	151.226	0.3	151.806	7.58	151.774	7.033
7	Glos_3641.5B	149.334	14.113	149.612	21.324	149.774	26.282	150.01	34.308	150.708	42.395	151.002	46.431	151.226	49.846	151.806	52.878	151.774	52.957
8	Glos_3641.5	149.334	14.113	149.612	21.324	149.774	26.282	150.01	34.308	150.708	42.395	151.002	46.431	151.226	50.146	151.806	60.04	151.774	59.524
	Glos_3634.9S	149.301	0	149.575	0	149.732	0	149.961	0	150.176	0	150.278	0	150.375	0.3	150.73	7.58	150.713	7.033
	Glos_3634.9B	149.301	14.113	149.575	21.324	149.732	26.282	149.961	34.308	150.176	42.395	150.278	46.431	150.375	49.846	150.73	52.878	150.713	52.957
9	Glos_3634.9	149.301	14.113	149.575	21.324	149.732	26.282	149.961	34.308	150.176	42.395	150.278	46.431	150.375	50.146	150.73	60.04	150.713	59.524
10	Glos_3628.1	149.239	14.112	149.521	21.324	149.693	26.282	149.931	34.308	150.154	42.394	150.26	46.431	150.364	50.146	150.801	60.04	150.78	59.524
11	Glos_3617.4	149.215	14.113	149.494	21.324	149.663	26.282	149.894	34.308	150.109	42.393	150.21	46.431	150.313	50.145	150.759	60.039	150.739	59.524
12	Glos_3608.6	149.134	14.112	149.383	21.323	149.535	26.282	149.762	34.308	149.975	42.392	150.076	46.43	150.174	50.145	150.575	60.039	150.553	59.523
13	Glos_3592.3	149.005	14.112	149.249	21.323	149.398	26.281	149.62	34.308	149.829	42.39	149.928	46.43	150.027	50.144	150.402	60.038	150.383	59.522
14	Glos_3564.3	148.747	14.112	148.981	21.323	149.124	26.281	149.336	34.307	149.537	42.388	149.635	46.429	149.737	50.144	150.188	60.037	150.165	59.521
15	Glos_3528.5	148.408	14.112	148.604	21.323	148.731	26.281	148.928	34.307	149.121	42.385	149.218	46.428	149.336	50.143	149.967	60.035	149.933	59.519
16	Glos_3511.2	148.197	14.112	148.385	21.322	148.512	26.279	148.715	34.307	148.918	42.383	149.019	46.427	149.154	50.142	149.94	60.033	149.894	59.518
17	Glos_3494.4S	147.897	0	148.123	0	148.269	0	148.499	0	148.725	0	148.836	0	148.994	0	149.962	5.425	149.919	4.836
18	Glos_3494.4B	147.897	14.112	148.123	21.322	148.269	26.278	148.499	34.306	148.725	42.381	148.836	46.427	148.994	50.14	149.962	54.929	149.919	54.927
19	Glos_3494.4	147.897	14.112	148.123	21.322	148.269	26.278	148.499	34.306	148.725	42.381	148.836	46.427	148.994	50.14	149.962	60.03	149.919	59.517
20	Glos_3490.4S	147.908	0	148.134	0	148.279	0	148.509	0	148.734	0	148.845	0	148.945	0	149.205	5.425	149.192	4.836
21	Glos_3490.4B	147.908	14.112	148.134	21.322	148.279	26.278	148.509	34.306	148.734	42.381	148.845	46.427	148.945	50.14	149.205	54.929	149.192	54.927
22	Glos_3490.4	147.908	14.112	148.134	21.322	148.279	26.278	148.509	34.306	148.734	42.381	148.845	46.427	148.945	50.14	149.205	60.03	149.192	59.517
23	Glos_3466.2	147.546	14.113	147.842	21.321	148.016	26.278	148.277	34.306	148.525	42.38	148.645	46.427	148.751	50.139	149.026	60.029	149.012	59.517
24	Glos_3453.4	147.433	14.113	147.751	21.321	147.931	26.278	148.2	34.306	148.454	42.381	148.576	46.428	148.684	50.139	148.963	60.028	148.949	59.517
25	Glos_3427.2	147.323	14.113	147.688	21.321	147.915	26.275	148.248	34.305	148.558	42.384	148.702	46.43	148.832	50.138	149.164	60.027	149.147	59.515
26	Glos_3427.1	147.323	14.113	147.688	21.321	147.915	26.275	148.248	34.305	148.557	42.384	148.702	46.43	148.832	50.138	149.163	60.027	149.147	59.515
27	Glos_3424.2	147.086	14.113	147.381	21.321	147.567	26.275	147.842	34.305	148.07	42.384	148.166	46.43	148.254	50.138	148.467	60.027	148.455	59.515
28	Glos_3414.2	147.041	14.113	147.329	21.321	147.512	26.275	147.785	34.305	148.007	42.384	148.099	46.43	148.185	50.137	148.39	60.025	148.378	59.515
29	Glos_3396	146.894	14.114	147.126	21.321	147.28	26.274	147.507	34.306	147.706	42.385	147.8	46.431	147.885	50.137	148.097	60.024	148.086	59.515
30	Glos_3352.2	146.498	14.113	146.712	21.321	146.845	26.271	147.039	34.305	147.221	42.387	147.31	46.431	147.394	50.134	147.608	60.024	147.596	59.514
31	Glos_3319.2	146.104	14.113	146.295	21.321	146.421	26.27	146.614	34.305	146.81	42.388	146.909	46.432	147.003	50.131	147.249	60.025	147.235	59.512
32	Glos_3269.2	145.421	14.113	145.646	21.32	145.801	26.272	146.054	34.305	146.308	42.39	146.435	46.433	146.551	50.128	146.865	60.028	146.846	59.508
33	Glos_3219.2	144.814	14.113	145.113	21.32	145.31	26.273	145.63	34.303	145.975	42.393	146.141	46.435	146.286	50.122	146.66	60.031	146.64	59.506
34	Glos_3190.2	144.574	14.112	144.95	21.32	145.185	26.275	145.538	34.302	145.869	42.394	146.027	46.435	146.167	50.122	146.53	60.031	146.511	59.505
	Glos_3190.2c	143.971	14.112	144.205	21.32	144.373	26.275	144.646	34.302	144.915	42.394	145.045	46.435	145.162	50.122	145.465	60.031	145.452	59.505

Data from - Glossop Brook Supporting Studies, Hydraulic Modelling, Oct 2005 (Halcrow).

Data supplied by S. Daffern, Environment Agency. This data must be used in conjunction with the data licence agreement.

Max velocities (m/s) for all available return periods - from Glossop Brook Supporting Studies, Hydraulic Modelling, Oct 2005 (Halcrow)

Easting	Northing	Label	200	100+20%	100	75	50	25	10	5	2
403960.867	394000.446	Glos_3735.5 1	1.994	1.994	1.986	1.977	1.959	1.858	1.656	1.506	1.246
403938.132	393971.021	Glos_3690.2 2	3.967	3.970	3.978	3.986	3.986	3.969	3.760	3.537	3.041
403921.093	393957.088	Glos_3665.0 3	3.646	3.651	3.645	3.657	3.656	3.655	3.595	3.482	3.230
403906.765	393950.122	Glos_3647.6 4	2.827	2.830	2.822	2.824	2.833	2.808	2.635	2.519	2.355
403903.331	393949.700	Glos_3642.6 5	3.020	3.024	3.014	3.024	3.029	2.998	2.784	2.636	2.442
403892.864	393950.843	Glos_3641.5S6	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747
403893.368	393947.489	Glos_3641.5B7	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747
403902.009	393949.418	Glos_3641.5 8	2.944	2.947	2.937	2.946	2.954	2.920	2.691	2.536	2.324
403886.656	393948.160	Glos_3634.9 9	3.587	3.591	3.552	3.480	3.386	3.176	2.929	2.765	2.554
403880.276	393947.016	Glos_3628.1 10	3.194	3.195	3.166	3.091	2.990	2.762	2.491	2.317	2.015
403867.497	393945.855	Glos_3617.4 11	3.188	3.189	3.160	3.080	2.967	2.719	2.426	2.238	1.913
403859.365	393945.468	Glos_3608.6 12	3.564	3.569	3.525	3.435	3.315	3.049	2.732	2.500	2.093
403847.360	393944.694	Glos_3592.3 13	3.976	3.979	3.956	3.875	3.760	3.503	3.196	2.973	2.591
403824.513	393942.372	Glos_3564.3 14	3.958	3.963	3.945	3.859	3.734	3.444	3.092	2.839	2.387
403786.175	393941.598	Glos_3528.5 15	4.199	4.195	4.202	4.135	4.024	3.755	3.402	3.129	2.609
403770.298	393940.050	Glos_3511.2 16	4.380	4.384	4.384	4.343	4.268	4.081	3.817	3.592	3.122
403749.854	393939.243	Glos_3494.4S17	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781
403748.920	393939.510	Glos_3494.4B18	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781
403747.452	393939.021	Glos_3494.4 19	4.337	4.336	4.335	4.299	4.238	4.097	3.912	3.762	3.494
403747.941	393940.888	Glos_3490.4S20	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781
403746.740	393940.043	Glos_3490.4B21	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781	2.781
403745.360	393940.266	Glos_3490.422	4.432	4.439	4.305	4.250	4.184	4.033	3.833	3.671	3.374
403725.830	393938.476	Glos_3466.223	4.123	4.131	3.969	3.902	3.828	3.664	3.475	3.371	3.186
403716.202	393937.983	Glos_3453.424	3.570	3.578	3.414	3.348	3.271	3.102	2.907	2.774	2.562
403690.650	393937.191	Glos_3427.225	2.557	2.565	2.418	2.358	2.290	2.139	1.967	1.836	1.597
403690.477	393937.184	Glos_3427.1 26	2.557	2.565	2.418	2.358	2.290	2.139	1.967	1.837	1.597
403685.597	393937.025	Glos_3424.227	2.654	2.665	2.414	2.317	2.202	1.975	1.740	1.571	1.268
403673.748	393935.658	Glos_3414.228	2.848	2.859	2.606	2.510	2.394	2.172	1.954	1.796	1.502
403657.983	393930.964	Glos_3396 29	3.683	3.696	3.421	3.313	3.184	2.902	2.597	2.379	1.954
403616.389	393916.549	Glos_3352.230	4.177	4.182	4.041	3.958	3.844	3.557	3.176	2.904	2.414
403585.378	393913.169	Glos_3319.231	3.441	3.442	3.397	3.372	3.329	3.200	2.986	2.807	2.436
403546.132	393925.238	Glos_3269.232	3.229	3.229	3.215	3.201	3.184	3.118	2.999	2.872	2.562
403505.880	393939.988	Glos_3219.233	2.972	2.975	2.922	2.904	2.889	2.866	2.765	2.665	2.454
403463.060	393950.827	Glos_3190.234	2.985	2.992	2.854	2.798	2.734	2.594	2.436	2.327	2.148

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