

Appendix A

Water Quality Data

Appendix A Water Quality Data

Table A5-1 - Long Term TSS Monitoring Results

Site Sampling ID	Tributary	Location	Avge	Median	06/01/98	16/02/98	16/04/98	05/05/98	03/06/98	20/07/98	06/08/98	20/10/98	18/11/98	15/12/98	20/01/99	02/02/99	08/03/99	23/04/99	25/05/99	10/06/99	12/07/99	20/08/99	23/09/99	05/10/99	09/11/99	10/12/99
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
M2-2	Toongabbie Ck	U/s	16	8	31	20	80	31	39	29	37	11	14	29	5	18	5	44	10	4	30	2	4	16	7	5
M2-10	Toongabbie Ck	U/s	19	9	24	17	14	66	27	55	58	6	52	38	9	16	3	2	8	13	48	4	1	9	5	13
M2-1	Toongabbie Ck	D/s	25	11	26	18	14	56	26	29	57	14	9	97	9	18	4	7	1	12	209	7	2	19	7	10
M2-11	Darling Mills Ck	U/s	17	7	19	42	14	49	40	16	90	7	16	41	6	37	9	5	19	25	29	6	2	4	8	24
M2-12	Darling Mills Ck	U/s	19	8	3	8	15	29	62	54	26	29	26	13	14	7	4	5	5	4	11	1	17	143	6	2
M2-3	Darling Mills Ck	D/s	20	9	19	46	19	56	39	39	101	7	4	81	10	40	8	2	16	24	14	17	1	9	15	22
M2-13	Devlins Ck	U/s	14	5	3	9	5	34	50	13	24	2	7	17	12	11	1	11	5	5	17	1	1	69	5	6
M2-18	Devlins Ck	U/s	11	6	9	9	6	18	31	13	17	12	3	15	9	5	2	5	5	4	10	1	4	15	4	8
M2-5	Devlins Ck	D/s	16	7	9	15	8	38	15	11	18	7	7	21	9	8	3	3	5	7	9	3	3	70	4	5
M2-6	Devlins Ck	D/s	15	10	9	12	19	41	23	30	30	8	14	22	10	11	5	17	6	11	12	6	5	25	8	29
M2-14	Terrys Ck	U/s	17	10	13	27	55	42	21	9	33	6	7	33	6	14	1	3	5	11	16	5	11	33	5	83
M2-7	Terrys Ck	D/s	18	9	17	20	43	38	29	14	30	9	7	42	7	14	4	4	7	13	8	4	18	41	4	9
M2-15	Shrimptons Ck	U/s	32	13	12	24	13	59	22	8	76	10	38	61	22	63	8	7	16	21	17	8	25	35	4	29
M2-8	Shrimptons Ck	D/s	21	11	39	23	13	54	21	7	70	9	38	55	15	34	7	6	17	23	18	5	23	35	3	22
M2-16	Porters Ck	U/s	18	6	2	11	3	45	66	6	62	86	26	13	8	9	1	5	4	5	21	3	6	21	4	7
M2-9	Porters Ck	D/s	23	9	7	16	19	88	19	3	111	33	24	94	45	16	11	3	9	8	35	3	4	56	26	20

143 value exceeds background reading of 128 mg/l for wet conditions

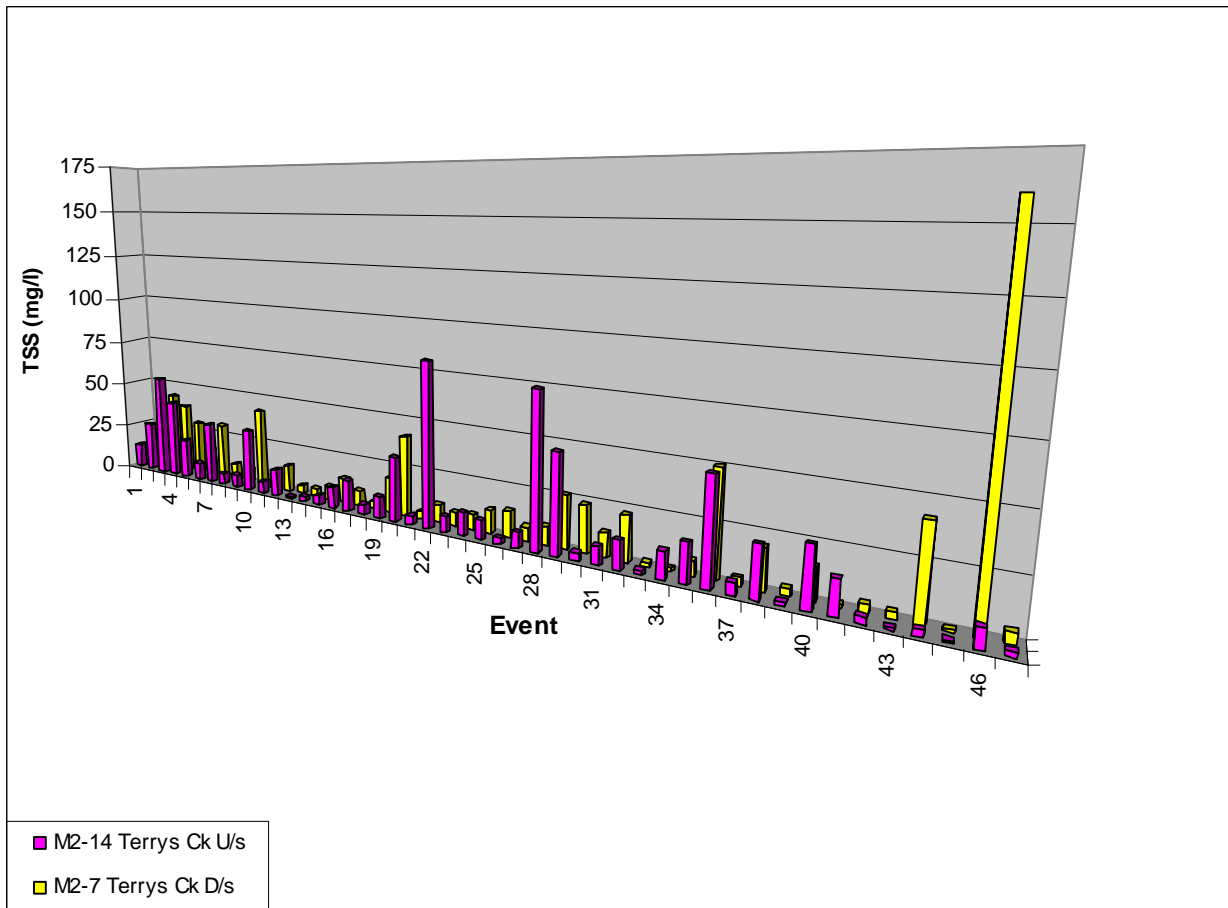
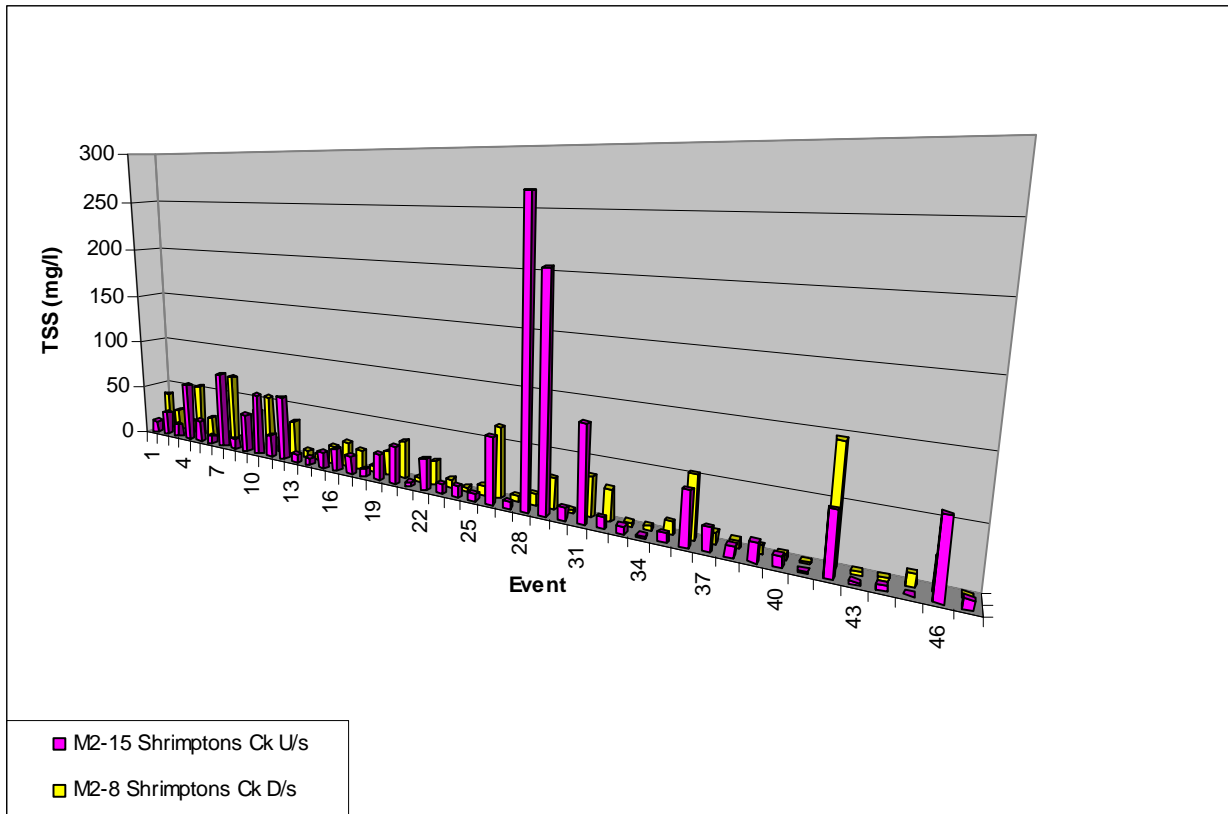
209 exceedance value is downstream of motorway

Table A5-1 Cont'd - Long Term TSS Monitoring Results

Site Sampling ID	Tributary	Location	Avge	Median	03/10/03	17/11/03	16/01/04	22/06/06	04/07/06	18/07/06	25/07/06	07/08/06	07/09/06	12/09/06	06/11/06	03/12/06	24/01/07	11/02/07	13/02/07	25/02/07	06/03/07	09/03/07	10/04/07	22/08/07	06/11/07	07/12/07	14/01/08	07/02/08	14/04/08
					23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
M2-2	Toongabbie Ck	U/s	16	8	6	6	5	1	17	8	10	8	63	4	7	29	11	28	2	7	4	2	4	4	22	5	7	10	5
M2-10	Toongabbie Ck	U/s	19	9	5	7	16	6	8	13	8	10	17	13	2	4	25	182	4	14	13	2	2	5	1	2	22	8	2
M2-1	Toongabbie Ck	D/s	25	11	7	6	11	22	10	4	15	9	82	19	9	11	29	168	12	20	40	10	10	7	7	2	6	5	16
M2-11	Darling Mills Ck	U/s	17	7	4	13	3	7	3	5	7	3	36	1	6	4	14	145	4	9	14	3	5	6	1	4	3	6	2
M2-12	Darling Mills Ck	U/s	19	8	46	4	10	6	14	18	9	5	24	8	5	2	100	31	4	6	2	8	2	6	7	4	1	74	2
M2-3	Darling Mills Ck	D/s	20	9	4	4	12	1	3	158	6	4	39	2	2	3	25	5	2	14	15	6	2	2	1	3	1	27	2
M2-13	Devlins Ck	U/s	14	5	5	7	6	2	1	7	3	2	10	2	1	1	7	40	2	12	8	4	2	4	1	3	17	210	2
M2-18	Devlins Ck	U/s	11	6	6	8	2	4	8	14	14	4	5	4	4	116	10	18	5	18	2	4	9	2	8	4	1	54	2
M2-5	Devlins Ck	D/s	16	7	8	6	4	3	4	17	10	3	21	2	1	4	11	44	4	9	12	2	9	10	4	2	1	270	2
M2-6	Devlins Ck	D/s	15	10	12	10	16	11	5	10	14	3	8	2	1	3	12	54	3	23	12	2	2	3	4	2	1	150	2
M2-14	Terrys Ck	U/s	17	10	8	12	10	3	8	76	49	4	9	14	2	13	19	50	6	24	2	28	16	3	1	3	1	9	2
M2-7	Terrys Ck	D/s	18	9	7	8	12	13	7	9	26	23	12	22	2	2	7	50	4	19	4	15	2	4	3	42	1	160	5
M2-15	Shrimptons Ck	U/s	32	13	9	11	7	60	6	265	206	11	85	10	6	2	8	46	20	9	16	10	2	51	2	4	1	61	7
M2-8	Shrimptons Ck	D/s	21	11	8	4	9	65	6	11	28	3	35	28	3	4	11	53	10	7	7	4	2	96	3	2	10	23	2
M2-16	Porters Ck	U/s	18	6	3	3	4	6	2	10	12	2	16	2	1	1	31	138	11	78	2	3	2	1	18	6	6	50	2
M2-9	Porters Ck	D/s	23	9	8	6	24	4	2	6	110	12	95	6	2	6	11	16	15	7	4	2	4	1	6	4	2	60	2

143 value exceeds background reading of 128 mg/l for wet conditions

209 exceedance value is downstream of motorway



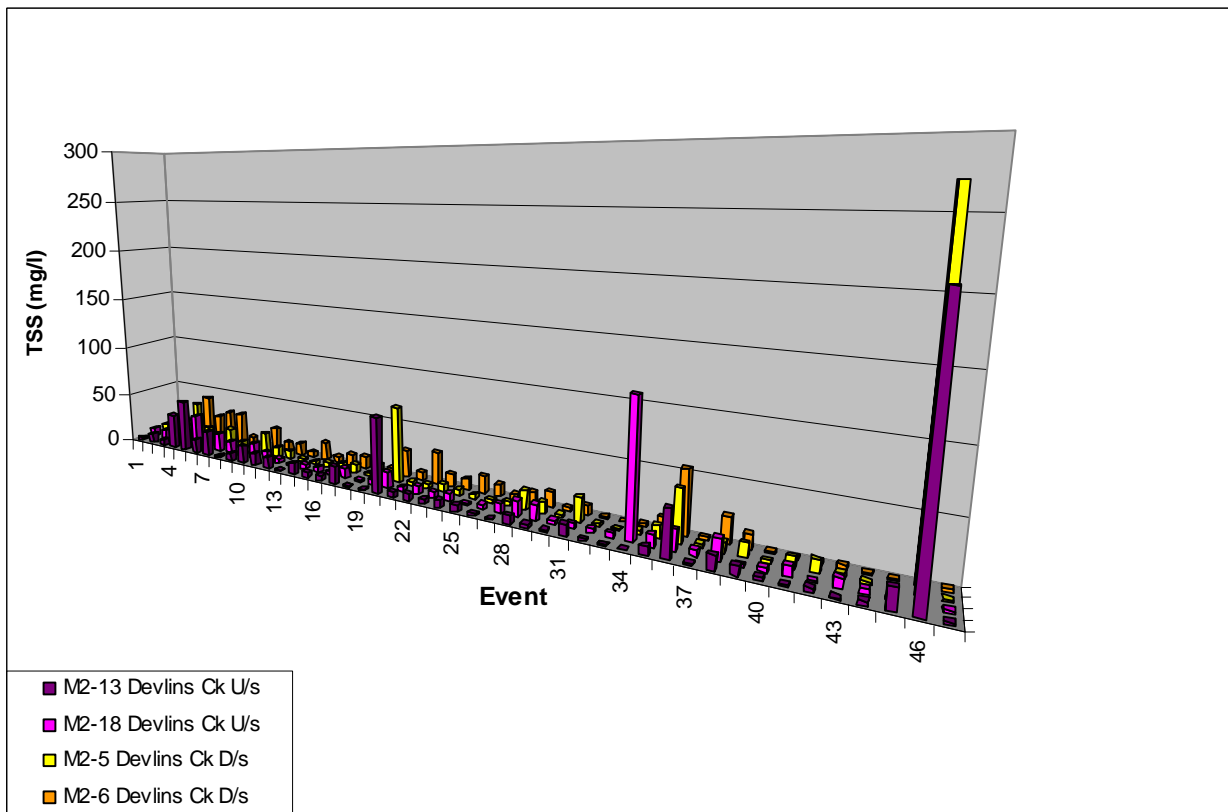
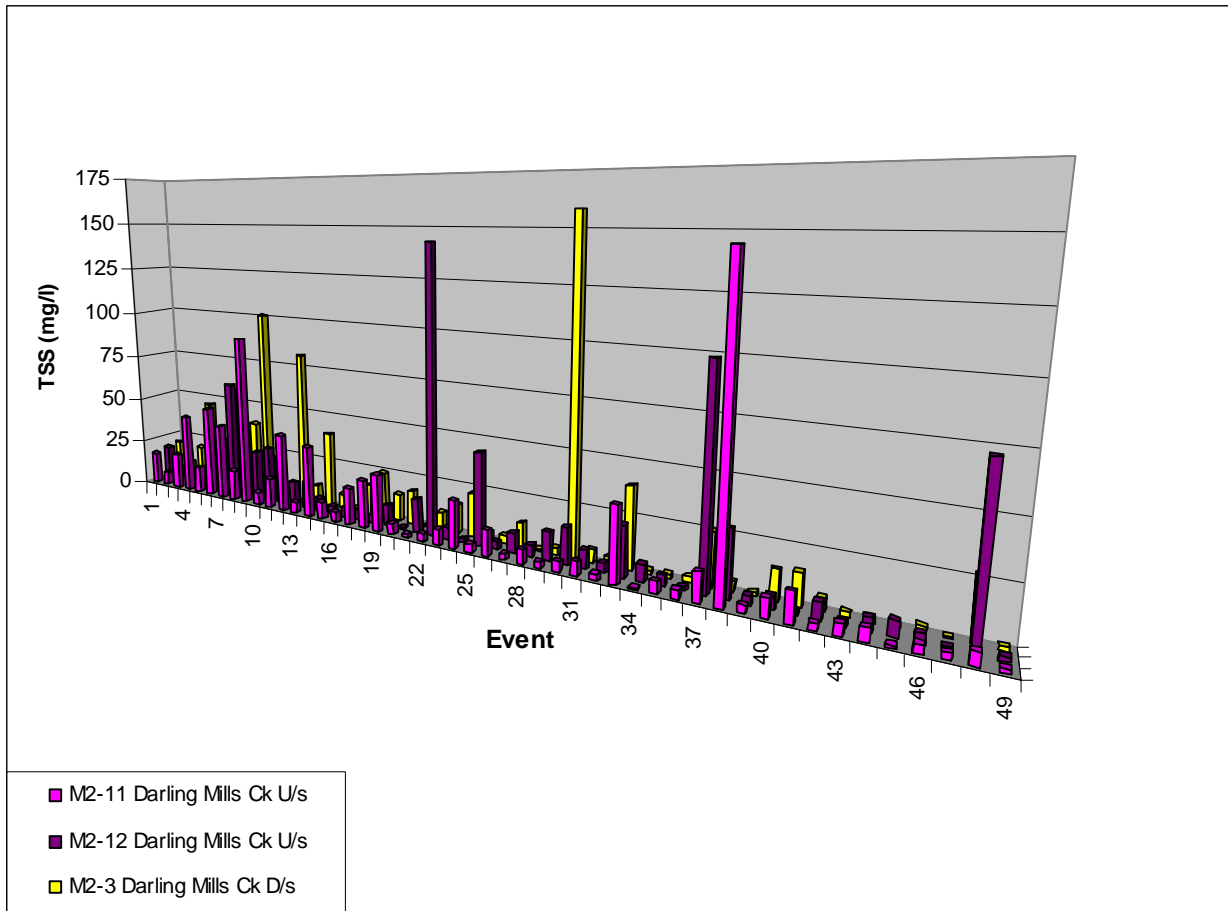


Table A5-2 - Water Quality Basin Sampling Results - 2007 and 2008

BASIN ID		Tributary Catchment Area	EXISTING BASIN Location		2007						2008					
as per original M2 design dwgs	HLA Report Basin Number		Chainage	East or West bound	pH	Alkalinity (CaCO ₃)	e-coli	TDS	Copper mg/l	Zinc mg/l	pH	Alkalinity (CaCO ₃)	e-coli	TDS	Copper mg/l	Zinc mg/l
					6.5-8.0				0.0014	0.008	6.5-8.0				0.0014	0.008
8B	8	Northmead Gully	4340	EB											0.000	0.0048
10C	9	Darling Mills Ck	4530	EB	7.6	95	<10	190	0.000	0.006					0.0031	0.13
10B	10	Darling Mills Ck	4700	EB												
12B	11	Darling Mills Ck	5300	WB											0.0025	0.048
13B	12	Darling Mills Ck	6080	EB											0.000	0.014
14B	13	Darling Mills Ck	6360	EB	7.4	53	420	420	0.001	0.013					0.000	0.0071
14C	14	Darling Mills Ck	6550	EB												
15B	15	Darling Mills Ck	6820	EB											0.000	0.17
16B	16	Darling Mills Ck	7220	WB											0.000	0.003
17B	17	Darling Mills Ck	7540	WB											0.000	0.0044
18B	18	Darling Mills Ck	7750	WB											0.000	0.0083
19B	19	Darling Mills Ck		EB												
Lisle Ct		Darling Mills Ck	9690	EB												
22B	20	Devlins Ck	10460	WB	7.2	180	100	450	0.002	0.011					0.000	0.085
23B	21	Devlins Ck	11300	EB	7.2	46	50	290	0.003	0.011					0.0041	0.0095
25B	22	Devlins Ck	11860	WB	7.3	46	230	330	0.007	0.029						
27B	23	Devlins Ck	12200	WB											0.003	
28F	26	Devlins Ck	12380	WB											0.0011	0.01
28C	24	Devlins Ck	12440	EB											0.000	0.02

BASIN ID		Tributary Catchment Area	EXISTING BASIN Location		2007						2008					
as per original M2 design dwgs	HLA Report Basin Number		Chainage	East or West bound	pH	Alkalinity (CaCO ₃)	e-coli	TDS	Copper mg/l	Zinc mg/l	pH	Alkalinity (CaCO ₃)	e-coli	TDS	Copper mg/l	Zinc mg/l
28B	25	Devlins Ck	12300	EB												
28E	27	Devlins Ck	13420	WB										0.003	0.0093	
30B	28	Terrys Ck	13860	WB										0.000	0.19	
33C	29	Terrys Ck		EB										0.0012	0.014	
Vimiera Rd		Terrys Ck	14820	WB												
33B	30	Terrys Ck	15620	EB										0.0019	0.0096	
34B	31	Mars Ck	16150	EB										0.0025	0.16	
35B	32	University Ck	16260	WB										0.000	0.095	
35C	33	University Ck	16500	WB										0.000	0.0018	
36B	34	Shrimptons Ck	17700	WB										0.000	0.012	
39D	35	Porters Ck		WB	7.4	56	<10	110	0.002	0.01				0.000	0.0016	
Lane Cove Rd		Porters Ck	18100	EB												
39C	36	Porters Ck	18400	EB										0.000	0.051	
40B	37	Porters Ck		EB	7.1	96	<10	350	0.001	0.01				0.000	0.0031	

Table A5-3 - Water Quality Site Sampling Results - 21 May & 1 June 2007

Site Sample ID	Tributary	Location	Flow (l/s)	Turbid (visual)	DO (mg/l)	EC(uS)	pH	Alkalinity (CaCO ₃)	e-coli	TDS	Copper (mg/l)	Zinc (mg/l)
M2-2	Toongabbie Ck	U/s	15	grey	5.04	586	5.86	100	240	360	0.003	0.076
M2-10	Toongabbie Ck	U/s	15	clear	8.02	345	5.67	47	400	195	0.004	0.013
M2-1	Toongabbie Ck	D/s	5	clear	3.86	419	5.7	59	240	190	0.004	0.037
M2-11	Darling Mills Ck	U/s	15	brown	6.73	294	6.86	41	1100	170	0.003	0.005
M2-12	Darling Mills Ck	U/s	10	clear	5.75	1028	7.32	210	10000	650	0.011	0.019
M2-3	Darling Mills Ck	D/s	10	clear	7.46	300	6.46	43	400	175	0.003	0.005
M2-13	Devlins Ck	U/s	10	clear	4.96	365	7.33	46	66	250	0.002	0.006
M2-18	Devlins Ck	U/s	>5	clear	6.24	264	7.83	38	8800	160	0.007	0.014
M2-5	Devlins Ck	D/s	>5	clear	4.10	370	7.52	76	120	235	0.002	0.006
M2-6	Devlins Ck	D/s	25	Clear, sheen	6.10	402	7.39	59	1100	240	0.004	0.011
M2-14	Terrys Ck	U/s	>5	yellow	3.90	367	6.97	97	1100	240	<0.001	0.007
M2-7	Terrys Ck	D/s	30	clear	6.45	254	7.21	39	300	170	0.003	0.007
M2-15	Shrimptons Ck	U/s	15	clear	9.24	292	7.18	80	200	195	0.003	0.017
M2-8	Shrimptons Ck	D/s	25	clear	4.6	168	7.31	54	300	155	0.003	0.024
M2-16	Porters Ck	U/s	40	clear	6.29	3.17mS	7.5	92	<100	2710	0.002	0.014
M2-9	Porters Ck	D/s	15	clear	6.7	4.05mS	7.55	100	<100	2060	0.001	0.011