Attachment E4 Millstreet Inlet Table E4

Sample Date	11/04/2006	10/10/2006	27/09/2007	14/02/2008	13/11/2008	19/11/2008	27/11/2008	07/01/2009	22/01/2009		
Sample	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Average	Kg/Day
Sample Code				GS112	GS1211	Mallow	GS1268	GT029	GT106	mg/L	
Flow M^3/Day	*	*	*	*	*		*	*	*	3432	
pH	7.1	7.6	*	*	6.6	6.9	7	7.8	7.2	7.171429	
Temperature ℃	*	*	*	*	*	*	*	*	*	*	
Cond 20℃	617	674	*	*	673	144	622	611	392	533.2857	
SS mg/L	162	35	*	*	*	32	700	78	40	174.5	598.884
NH_3 mg/L	27	31	23.6	15.5	43	11	29.3	17	6	22.6	77.5632
BOD mg/L	235	103	*	*	*	*	175	115	61	137.8	472.9296
COD mg/L	324	198	2675	212	663	161	1076	297	144	638.8889	2192.667
TN mg/L	*	*	*	*	54	60	38	22	11	37	126.984
Nitrite mg/L	*	*	*	*	*	*	0.0194	*	*	0.0194	0.066581
Nitrate mg/L	*	*	*	*	*	*	<0.405	*	*	<0.405	<1.38996
TP mg/L	20	15	23.9	4.75	21	3	16	3.8	1.4	12.09444	41.50813
O-PO4-P mg/L	13	11	4.27	2.43	13.16	2	*	2.5	1.1	6.1825	21.21834
SO4 mg/L	*	*	<30	<30	<30	*	<30	*	*	<30	<102.96
Phenols µg/L	*	*	*	*	*	*	<0.10	*	*	<0.0001	<0.000343
Atrazine µg/L	*	*	*	*	*	*	<0.01	*	*	<0.00001	<0.000034
Dichloromethane µg/L	*	*	*	*	*	*	<1	*	*	<0.001	<0.003432
Simazine µg/L	*	*	*	*	*	*	<0.01	*	*	<0.00001	<0.000034
Toluene µg/L	*	*	*	*	*	*	<1	*	*	<0.001	<0.003432
Tributyltin µg/L	*	*	*	*	*	*	*	*	*	*	*
Xylenes µg/L	*	*	*	*	*	*	<1	*	*	<0.001	<0.003432
Arsenic µg/L	*	*	*	*	*	*	1	*	*	0.001	0.003432
Chromium mg/L	*	*	0.0335	<0.02	<0.02	*	<0.02	<0.02	<0.02	0.0139	0.047705
Copper mg/L	*	*	0.295	<0.02	<0.02	*	0.036	<0.02	<0.02	0.06183	0.212201
Cyanide µg/L	*	*	*	*	*	*	5	*	*	0.005	0.01716
Fluoride µg/L	*	*	*	*	*	*	293	*	*	0.293	1.005576
Lead mg/L	*	*	0.073	0.029	<0.02	*	<0.02	<0.02	<0.02	0.0264	0.090605
Nickel mg/L	*	*	<0.02	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.06864
Zinc mg/L	*	*	0.843	0.044	<0.02	*	0.219	<0.02	<0.02	0.2252	0.772886
Boron mg/L	*	*	0.029	<0.02	<0.02	*	<0.02	<0.02	<0.02	0.0132	0.045302
Cadmium mg/L	*	*	<0.02	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.06864
Mercury µg/L	*	*	*	*	*	*	<0.2	*	*	<0.0002	<0.000686
Selenium µg/L	*	*	*	*	*	*	1.5	*	*	0.0015	0.005148

Barium mg/L	*	*	0.291	<0.02	<0.02	*	0.028	0.038	<0.02	0.0645	0.221364

values recorded as 1/2 of LOD for statistical purposes

Kg/year
Maximum Flow
218592.7
28310.57
172619.3
800323.3
46349.16
24.30199
<507.3354
15150.47
7744.694
<37580.4
<0.125268
<0.0125268
<1.25268
<0.0125268
<1.25268
*
<1.25268
1.25268
17.41225
77.4532
6.2634
367.0352
33.07075
<25.0536
282.1035
16.53538
<25.0536
<0.250536
1.87902

80.79786

Attachment E4 Millstreet Discharge Outlet Table E4

Sample Date	23/02/2006	11/04/2006	10/10/2006	18/10/2006	06/12/2006	13/12/2006	15/12/2006	07/02/2007	08/03/2007	17/05/2007	21/08/2007	27/09/2007	13/12/2007	14/02/2008	03/04/2008	19/06/2008	18/09/2008	24/09/2008	23/10/2008	13/11/2008	27/11/2008	10/12/2008	07/01/2009	22/01/2009			
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Average	Kg/Day	Kg/year
Sample Code														GS111	GS239	GS571	GS935	GS982	GS1122	GS1210	GS1267	GS1358	GT030	GT107	mg/L		
Flow M^3/Day	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3432		
pH	7.3	7.1	7.3	7.2	7.5	7.2	7.2	7.1	7.1	7.4	7.3	7.5	7.3	7.6	*	7.5	*	*	7.3	7.3	7.4	*	7.4	7.4	7.333333		
Temperature ℃	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Cond 20℃	*	448	434	*	*	*	*	*	*	*	*	*	*	*	437	343	*	*	*	382	400	*	477	336	401.2857		
SS mg/L	3	4.6	2	154	14	23	9	3	11	4	59	9	6	39	3	5	<2.5	5	454	5	8	7	8	10	35.285	121.0981	44200.8138
NH_3 mg/L	*	9	0.4	*	*	*	*	*	*	*	18.3	22.9	*	15.7	*	5.3	*	*	8	3	7.8	4.7	9	3	8.925	30.6306	11180.169
BOD mg/L	5	8	<2	36	6.6	26	3.5	6	5.3	2.7	72	19	7.27	68.7	1.6	*	3.15	5.18	75.3	4.21	7.8	4	7	9	16.709	57.34529	20931.03012
COD mg/L	22	16	22	197	28	50	25	45	21	<21	190	74	29	133	<21	<21	<21	30	60	24	26	26	29	47	47.333	162.4469	59293.10244
TN mg/L	16.45	*	*	14	5.7	9	4	19.2	11.5	9.9	22.8	23.8	8.9	*	10.5	10.3	*	*	51	7	11	12	11	5.8	13.74444	47.17093	17217.39067
Nitrite mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.178	*	*	*	0.178	0.610896	222.97704
Nitrate mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.78	*	*	*	1.78	6.10896	2229.7704
TP mg/L	2.21	4	5	2.98	0.59	0.86	0.56	1.89	0.64	1.22	1.9	1.5	0.63	3.93	1.79	<0.2	*	*	6.7	1.5	1.1	0.7	2	0.7	1.9318	6.629938	2419.927224
O-PO4-P mg/L	*	4	5	*	*	*	*	*	*	*	0.87	*	0.54	2.3	1.45	<0.05	*	*	1.68	1.03	0.99	1.04	1.5	0.5	1.6096	5.524147	2016.313728
SO4 mg/L	*	*	*	*	*	*	*	*	*	*	<30	<30	<30	<30	*	*	*	*	<30	<30	<30	<30.0	*	*	<30	<102.96	<37580.4
Phenols µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<0.10	*	*	*	<0.0001	<0.000343	<0.125268
Atrazine µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<0.01	*	*	*	<0.00001	<0.000034	<0.0125268
Dichloromethane	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<1	*	*	*	<0.001	<0.003432	<1.25268
Simazine µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<0.01	*	*	*	<0.00001	<0.000034	<0.0125268
Toluene µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<1	*	*	*	<0.001	<0.003432	<1.25268
Tributyltin µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Xylenes µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<1	*	*	*	<0.001	<0.003432	<1.25268
Arsenic µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<0.96	*	*	*	<0.00096	<0.003294	<1.2025728
Chromium mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	<0.02	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.06864	<25.0536
Copper mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	<0.02	<0.02	<0.02	*	*	0.059	<0.02	<0.02	<0.02	<0.02	<0.02	0.01446	0.049627	18.1137528
Cyanide µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	<5	*	*	*	<0.005	<0.01716	<6.2634
Fluoride µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	295	*	*	*	0.295	1.01244	369.5406
Lead mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	<0.02	0.025	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0115	0.039468	14.40582
Nickel mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	<0.02	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.06864	<25.0536
Zinc mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	0.022	<0.02	<0.02	*	*	0.276	<0.02	<0.02	<0.02	<0.02	<0.02	0.0396	0.135907	49.606128
Boron mg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	<0.02	<0.02	0.024	*	*	<0.02	*	<0.02	<0.02	<0.02	<0.02	0.01175	0.040326	14.71899
Cadmium mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	<0.02	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.06864	<25.0536
Mercury µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.	*	<0.2	*	*	*	<0.0002	<0.000686	<0.250536
Selenium µg/L	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.9	*	*	*	0.0009	0.003089	1.127412
Barium mg/L	*	*	*	*	*	*	*	*	*	<0.02	*	<0.02	*	<0.02	<0.02	0.031	*	*	0.059	*	<0.02	0.025	<0.02	<0.02	0.0206	0.070699	25.805208

Maximum F

values recorded as 1/2 of LOD for statistical purposes

Flow

Attachment E4 Millstreet Upstream Table E4

Sample Date	08/03/2007	14/02/2008	19/06/2008	18/09/2008	24/09/2008	23/10/2008	13/11/2008	27/11/2008	07/01/2009	22/01/2009	
Sample	River	River	River	River	River	River	River	River	River	River	Average
Sample Code		GS113	GS569	GS936	GS984	GS1123	GS1212	GS1270	GT031	GT108	
Flow M^3/Day	*	*	*	*	*	*	*	*	*	*	
pH	7.2	7.9	7.5	*	*	*	7.3	7.6	7.6	7.3	7.485714
Temperature ℃	*	*	*	*	*	*	*	*	*	*	
Cond 20℃	*	*	*	*	*	*	125	129	154	116	131
SS mg/L	7	2.5	22	*	*	*	*	3	<1	2	6.17
NH_3 mg/L	<0.1	<0.1	0.2	*	*	<0.1	<0.01	<0.1	<0.05	<0.05	0.0625
BOD mg/L	<1	1.06	*	<1.0	*	*	*	<1.0	<2	<2	0.76
COD mg/L	<21	*	*	*	*	*	<21	<21	6	18	11.1
TN mg/L	5.3	*	9.3	*	*	*	*	2	2.2	1.5	4.06
Nitrite mg/L	*	*	*	*	*	*	*	<0.004	*	*	<0.004
Nitrate mg/L	*	*	*	*	*	*	*	1.24	*	*	1.24
TP mg/L	<0.2	<0.2	<0.2	*	*	<0.2	*	<0.20	0.07	<0.05	0.085
O-PO4-P mg/L	*	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SO4 mg/L	*	<30	*	*	*	<30	<30.0	<30	*	*	<30
Phenols µg/L	*	*	*	*	*	*	*	<0.10	*	*	<0.10
Atrazine µg/L	*	*	*	*	*	*	*	<0.01	*	*	<0.01
Dichloromethane	*	*	*	*	*	*	*	<1	*	*	<1
Simazine µg/L	*	*	*	*	*	*	*	<0.01	*	*	<0.01
Toluene µg/L	*	*	*	*	*	*	*	<1	*	*	<1
Tributyltin µg/L	*	*	*	*	*	*	*	*	*	*	*
Xylenes µg/L	*	*	*	*	*	*	*	<1	*	*	<1
Arsenic µg/L	*	*	*	*	*	*	*	<0.96	*	*	<0.96
Chromium mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cyanide µg/L	*	*	*	*	*	*	*	<5	*	*	<5
Fluoride µg/L	*	*	*	*	*	*	*	28	*	*	28
Lead mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Boron mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	0.042	<0.02	<0.02	0.01457
Cadmium mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury µg/L	*	*	*	*	*	*	*	<0.2	*	*	<0.2
Selenium µg/L	*	*	*	*	*	*	*	<0.74	*	*	<0.74
Barium mg/L	*	<0.02	0.037	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	0.0139

values recorded as 1/2 of LOD for statistical purposes

Attachment E4 Millstreet Downstream Table E4

Sample Date	08/03/2007	14/02/2008	19/06/2008	18/09/2008	24/09/2008	23/10/2008	13/11/2008	27/11/2008	07/01/2009	22/01/2009	
Sample	River	River	River	River	River	River	River	River	River	River	Average
Sample Code		GS110	GS570	GS934	GS983	GS1121	GS1209	GS1269	GT032	GT109	
Flow M^3/Day	*	*	*	*	*	*	*	*	*	*	*
pH	7.3	7.9	7.7	*	*	*	7.4	7.7	7.5	7.2	7.528571
Temperature ℃	*	*	*	*	*	*	*	*	*	*	*
Cond 20℃	*	*	*	*	*	*	140	150	174	138	150.5
SS mg/L	4	<2.5	3	*	*	*	*	5	2	5	3.375
NH_3 mg/L	<0.1	0.9	<0.1	*	*	0.1	<0.1	<0.1	0.08	<0.05	0.163
BOD mg/L	<1	5.89	*	<1.0	*	*	*	<1.0	<2	<2	1.565
COD mg/L	<21	*	*	*	*	*	21	<21	<5	19	12.7
TN mg/L	5.4	*	4.2	*	*	*	*	3	2.6	1.7	3.38
Nitrite mg/L	*	*	*	*	*	*	*	0.0112	*	*	0.0112
Nitrate mg/L	*	*	*	*	*	*	*	1.62	*	*	1.62
TP mg/L	<0.2	<0.2	<0.2	*	*	<0.2	*	<0.20	0.08	<0.05	0.086
O-PO4-P mg/L	*	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.0417
SO4 mg/L	*	<30	*	*	*	<30	<30	<30	*	*	<30
Phenols µg/L	*	*	*	*	*	*	*	<0.10	*	*	<0.10
Atrazine µg/L	*	*	*	*	*	*	*	<0.01	*	*	<0.01
Dichloromethane	*	*	*	*	*	*	*	<1	*	*	<1
Simazine µg/L	*	*	*	*	*	*	*	<0.01	*	*	<0.01
Toluene µg/L	*	*	*	*	*	*	*	<1	*	*	<1
Tributyltin µg/L	*	*	*	*	*	*	*	*	*	*	*
Xylenes µg/L	*	*	*	*	*	*	*	<1	*	*	<1
Arsenic µg/L	*	*	*	*	*	*	*	<0.96	*	*	<0.96
Chromium mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cyanide µg/L	*	*	*	*	*	*	*	<5	*	*	<5
Fluoride µg/L	*	*	*	*	*	*	*	42	*	*	42
Lead mg/L	*	0.026	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	0.01229
Nickel mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Boron mg/L	*	<0.02	<0.02	*	*	<0.02	0.029	<0.02	<0.02	<0.02	0.0127
Cadmium mg/L	*	<0.02	<0.02	*	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury µg/L	*	*	*	*	*	*	*	<0.2	*	*	<0.2
Selenium µg/L	*	*	*	*	*	*	*	0.9	*	*	0.9

Barium mg/L	*	<0.02	0.042	*	*	<0.02	0.02	0.038	<0.02	<0.02	0.02

values recorded as 1/2 of LOD for statistical purposes

Project	Project Ref	Location	Location R	Location E	Location N	Sample Te	Sample Re	Sample Da
Finnow (Millstreet)		Wallis Br	18F03040(	128384	92532	WFD Oper	2008/1028	21-May-08
Finnow (Millstreet)		Wallis Br	18F03040(	128384	92532	WFD Oper	2008/2729	15-Oct-08
Finnow (Millstreet)		Wallis Br	18F03040(	128384	92532	WFD Oper	2008/3097	18-Nov-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/0094	16-Jan-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/0305	28-Feb-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/0496	27-Mar-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/0753	23-Apr-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/1022	21-May-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/1226	18-Jun-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	Salmonoid	2008/1487	17-Jul-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/2019	28-Aug-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/2270	17-Sep-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/2723	15-Oct-08
Blackwater		Ballymaqui	RS18B021	138218.9	98793.7	WFD Oper	2008/3088	18-Nov-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/0098	16-Jan-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/0303	28-Feb-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/0500	27-Mar-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/0757	23-Apr-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/1024	21-May-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/1224	18-Jun-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/1485	17-Jul-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/2023	28-Aug-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/2274	17-Sep-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/2721	15-Oct-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/3090	18-Nov-08
Blackwater		Charles Br.	RS18B020	124800	94400	Salmonoid	2008/3520	17-Dec-08
Blackwater		Colthurst B	RS18B020	132802	95474	Salmonoid	2008/0099	16-Jan-08
Blackwater		Colthurst B	RS18B020	132802	95474	Salmonoid	2008/0304	28-Feb-08
Blackwater		Colthurst B	RS18B020	132802	95474	Salmonoid	2008/0501	27-Mar-08
Blackwater		Colthurst B	RS18B020	132802	95474	Salmonoid	2008/0758	23-Apr-08
Blackwater		Colthurst B	RS18B020	132802	95474	Salmonoid	2008/1023	21-May-08

Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/1225	18-Jun-08
Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/1486	17-Jul-08
Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/2024	28-Aug-08
Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/2275	17-Sep-08
Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/2722	15-Oct-08
Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/3089	18-Nov-08
Blackwater	Colthurst B	RS18B020	132802	95474	Salmonoid	2008/3519	17-Dec-08

Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/0086	16-Jan-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/0313	28-Feb-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/0507	27-Mar-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/0746	24-Apr-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/1011	21-May-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/1234	18-Jun-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/1502	17-Jul-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/2034	28-Aug-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/2262	17-Sep-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/2717	15-Oct-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	Salmonoid	2008/3104	19-Nov-08
Blackwater	Kilmurry	RS18B022	187510.7	99613.9	WFD Oper	2008/3472	17-Dec-08

Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/0093	16-Jan-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/0306	28-Feb-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/0495	27-Mar-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/0751	23-Apr-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/1019	21-May-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/1227	18-Jun-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/1489	17-Jul-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/2017	28-Aug-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/2269	17-Sep-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/2724	15-Oct-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/3087	18-Nov-08
Blackwater	Lombardst	RS18B021	146408	96918	Salmonoid	2008/3517	17-Dec-08

	Parameter	Temperatu	Dissolved O	pH	BOD	Nitrite	Molybdate	Ammonium
			O2		O2	NO2	P	NH4
	Max.	--	15	Varies	Varies	0.05	Varies	Varies
	Target	--	--	--	--	--	--	--
	Min.	--	5	Varies	--	--	--	--
Sample Tir	Comments	Degrees C	mg/l	pH units	mg/l	mg/l	mg/l	mg/l
13:45		11.9	10	7.8	***3.2***	***0.142***	***0.076***	***0.549***
14:05		11.4	10.2	7.3	0.8	0.035	0.028	0.05
13:35		10.1	10.5	7.6	0.4	0.035	0.019	0.057
	Sample Coun	4	4	4	4	4	4	4
	Maximum	11.9	10.5	8.1	3.2	0.142	0.076	0.549
	Minimum	10.1	9.2	7.3	0.4	0.031	0.015	0.032
	Mean	11	9.98	7.7	1.33	0.061	0.034	0.172
	Median	11	10.1	7.7	0.85	0.035	0.024	0.054
	Std. Deviatior	0.823	0.556	0.337	1.27	0.054	0.028	0.252
10:25		6.8	8.1	7.3	0.2	0.024	0.006	0.094
10:15		7.5	8.3	7.6	< 0.1	0.022	0.018	0.031
10:30		6.4	12.5	7.9	0.4	0.017	0.013	0.027
10:05		10.5	8.3	7.9	0.6	0.018	0.006	< 0.026
14:15		12.7	10.4	7.9	1.5	0.033	< 0.006	0.032
13:35		14.4	9.6	7.8	1.2	0.028	0.008	< 0.026
13:35			8.2	7.7	2.8	0.025	***0.044***	0.026
10:30		14.7	7.9	7.5	0.5	0.019	0.024	0.037
14:55		13.8	10.3	7.6	0.6	0.018	0.021	< 0.026
14:40		11.1	10.1	7.2	1.2	0.032	***0.036***	0.07
13:50		9.9	10.3	7.5	0.4	0.022	0.03	< 0.026
	Sample Coun	10	11	11	11	11	11	11
	Maximum	14.7	12.5	7.9	2.8	0.033	0.044	0.094
	Minimum	6.4	7.9	7.2	< 0.1	0.017	< 0.006	< 0.026
	Mean	10.8	9.45	7.63	0.859	0.023	0.019	0.034
	Median	10.8	9.6	7.6	0.6	0.022	0.018	0.027
	Std. Deviatior	3.13	1.43	0.241	0.786	0.006	0.013	0.026
12:20		6.8	9	7.1	< 1	0.021	0.01	0.11
12:25		7.1	8.9	7.5	< 1	0.017	0.018	0.063
13:00		6.5	13	7.7	< 1	0.015	0.012	0.042
12:40		10.7	8.6	7.9	< 1	0.017	0.008	0.038
13:00		12.8	11.8	8	1	0.026	0.01	< 0.026
12:15		13.1	9.7	7.7	1.6	0.038	0.026	< 0.026
12:40			8.3	7.5	1.1	0.028	***0.036***	0.041
13:10		15.8	8	7.4	< 1	0.02	0.027	< 0.026
13:45		13.2	10.3	7.3	< 1	0.018	0.017	< 0.026
13:00		10.5	10.2	7	< 1	0.026	0.028	0.064
13:15		9.7	10.5	7.4	< 1	0.02	0.02	< 0.026
13:25		6.1	12.1	7.3	< 1	0.04	0.022	0.057
	Sample Coun	11	12	12	12	12	12	12
	Maximum	15.8	13	8	1.6	0.04	0.036	0.11
	Minimum	6.1	8	7	< 1	0.015	0.008	< 0.026
	Mean	10.2	10	7.48	0.683	0.024	0.019	0.04
	Median	10.5	9.95	7.45	0.5	0.02	0.019	0.04
	Std. Deviatior	3.28	1.6	0.301	0.359	0.008	0.009	0.03
13:00		7.1	9.1	7.1	< 1	0.021	0.008	0.077
13:00		7.3	8.7	7.6	< 1	0.021	0.019	0.039
13:25		7.3	12.8	7.7	< 1	0.016	0.014	0.03
13:20		10.7	9.5	8.2	< 1	0.023	0.008	< 0.026
14:00		12.8	11.1	7.9	1.5	0.039	< 0.006	< 0.026

13:20		12.9	9.5	7.7	1.2	0.049	0.029	< 0.026
13:10			7.9	7.6	< 1	0.028	0.035	< 0.026
13:30		16	7.1	7.5	< 1	0.022	0.026	0.03
14:45		13.9	10.2	7.4	< 1	0.019	0.017	0.039
14:20		10.9	10.1	7.1	1.3	0.028	0.032	0.047
13:35		9.8	10.3	7.5	< 1	0.024	0.021	< 0.026
12:00		6.7	11.9	7.4	< 1	0.033	0.02	0.061
	Sample Coun	11	12	12	12	12	12	12
	Maximum	16	12.8	8.2	1.5	0.049	0.035	0.077
	Minimum	6.7	7.1	7.1	< 1	0.016	< 0.006	< 0.026
	Mean	10.5	9.85	7.56	0.708	0.027	0.019	0.032
	Median	10.7	9.8	7.55	0.5	0.024	0.02	0.03
	Std. Deviatior	3.16	1.6	0.309	0.382	0.009	0.01	0.021
11:00		7.6	11.3	7.7	< 1	0.035	0.006	0.079
11:10		8.1	11.8	8.1	< 1	0.025	0.024	0.049
11:05		8.6	11.5	8.4	< 1	0.023	0.027	< 0.026
12:00		11.5	12.7	8.4	< 1	0.026	0.011	< 0.026
12:55		13.4	10.9	8.2	< 1	***0.057***	0.017	0.034
11:40		14.6	10.9	8.3	1	0.035	***0.072***	< 0.026
12:50		15.7	9.9	8	< 1	0.031	***0.04***	< 0.026
12:20		15.4	9.9	7.9	< 1	0.024	***0.036***	< 0.026
12:00		12.7	10.5	7.9	1.3	0.025	0.025	0.042
12:25	flooded are	11.9	10.6	7.4	3.7	0.045	***0.066***	0.084
10:10		10.1	11.1	7.9	< 1	0.039	0.029	0.032
13:00		7.3	14.1	7.9	0.2	0.031	0.027	0.03
	Sample Coun	12	12	12	12	12	12	12
	Maximum	15.7	14.1	8.4	3.7	0.057	0.072	0.084
	Minimum	7.3	9.9	7.4	0.2	0.023	0.006	< 0.026
	Mean	11.4	11.3	8.01	0.85	0.033	0.032	0.035
	Median	11.7	11	7.95	0.5	0.031	0.027	0.031
	Std. Deviatior	3.05	1.19	0.294	0.941	0.01	0.02	0.025
09:55		7.1	8.6	7.5	< 1	0.026	0.008	0.073
10:00		7.6	8.1	7.9	< 1	0.024	0.02	0.052
10:10		6.9	12.1	8	< 1	0.019	0.012	< 0.026
09:30		10.2	9.8	8	< 1	0.021	0.009	< 0.026
10:25		12.7	10	8.1	1	0.046	0.011	0.061
10:20		14	9.6	7.9	1.9	0.019	< 0.006	< 0.026
09:45			9.8	7.9	3.2	0.028	***0.066***	0.034
10:00		14.5	7.1	7.7	< 1	0.026	0.024	< 0.026
11:25		13.6	10.4	7.6	1	0.025	0.023	< 0.026
10:20		10.7	9.9	7.2	2.4	0.04	***0.049***	0.09
10:30		9.8	10.3	7.7	< 1	0.027	0.025	< 0.026
12:00		6.5	11.9	7.7	< 1	0.031	0.026	0.042
	Sample Coun	11	12	12	12	12	12	12
	Maximum	14.5	12.1	8.1	3.2	0.046	0.066	0.09
	Minimum	6.5	7.1	7.2	< 1	0.019	< 0.006	< 0.026
	Mean	10.3	9.8	7.77	1.08	0.028	0.023	0.036
	Median	10.2	9.85	7.8	0.5	0.026	0.022	0.024
	Std. Deviatior	3.03	1.42	0.253	0.918	0.008	0.018	0.028

Nitrate	Dissolved (	Hardness	Alkalinity	Appearanc	Chloride	Dissolved (	Suspended	Zn
NO3		CaCO3	CaCO3		Cl			Zn
Varies	--	--	--	--	--	150	--	500
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	50	--	--
mg/l	µg/l	mg/l	mg/l	Descriptive	mg/l	% O2	mg/l	µg/l
1.8		67	54	clear	14.9	94	116.8	
6.1		51	40		12.7	95		
7.8		52	46		13.9	93		
4	0	4	4	-	4	4	1	0
7.8		67	54	-	17	95	116.8	
1.8		51	40	-	12.7	83	116.8	
4.4		56	47	-	14.6	91.2	117	
4		53	47	-	14.4	93.5	117	
3.02		7.44	5.77	-	1.82	5.56	0	
8		58	34	clear	18.3	74		
8.6		55	44	Clear		76		
6		43	32		22.7	102		
1.8		54	46	clear	18.4	77		
< 1.8		62	54	clear	16.2	99	2.3	
7.3		62	64	CLear	17.1	96		
8.2		51	64		16.3	100		
8		49	42	ht brown co	14.6	78		
7.2		48	40	clear	15.7	99		
3.8		39	30		12.7	92		
6.1		43	40		14.6	91	4.5	
11	0	11	11	-	10	11	2	0
8.6		62	64	-	22.7	102	4.5	
< 1.8		39	30	-	12.7	74	2.3	
5.99		51.3	44.5	-	16.7	89.5	3.4	
7.2		51	42	-	16.2	92	3.4	
2.67		7.75	11.7	-	2.75	11	1.56	
		40	24	nt Brown Colour		80	24	< 25
5.2			28	Clear		81	< 1	< 25
3.7		36	28			108	4	< 25
		40	36	clear		79	1	
		45	38	weeds		114	2	< 25
	< 5	44	50	Clear		95	2	< 25
5.7		37	42			100	2	
		36	32	ht brown colour		82	1	
		33	30	clear		99	2	
		29	24			92	7	
		31	26			92	3	
3.9		30	126	clear		98	3	
4	1	11	12	-	0	12	12	5
5.7	< 5	45	126	-		114	24	< 25
3.7	< 5	29	24	-		79	< 1	< 25
4.62	2.5	36.5	40.3	-		93.3	4.29	12.5
4.55	<5	36	31	-		93.5	2	<25
0.978	0	5.43	28.1	-		11.3	6.44	0
		36	26	nt Brown Colour		80	11	< 25
6.5			38	Clear		77	< 1	< 25
4.6		40	28			108	4	< 25
		46	44	clear		89.1	< 1	
		54	50	clear		107	1	< 25

	< 5	57	60	Clear		95	5	< 25
6.8		46	54			98	2	
		51	42	ht brown colour		73	1	
		44	36	clear		99	1	
		36	28			92	7	
		39	34			90	3	
4.5		38	98	clear		98	4	
4	1	11	12	-	0	12	12	5
6.8	< 5	57	98	-		108	11	< 25
4.5	< 5	36	26	-		73	< 1	< 25
5.6	2.5	44.3	44.8	-		92.2	3.33	12.5
5.55	<5	44	40	-		93.5	2.5	<25
1.22	0	7.28	19.9	-		11.1	3.16	0
		120	84			98	4	< 25
18.1			130	clear		98	< 1	< 25
15		126	106			95	< 1	< 25
		148	130	clear		118	< 1	
		160	142			106	2	< 25
	< 5	169	150	clear		109	1	< 25
13.6		118	148			100	2	
		12	100	clear		98	1	
		113	100	clear		97	3	
		46	44			98	38	
		104	90	clear		97	5	
12		97	90	clear		117	5	
4	1	11	12	-	0	12	12	5
18.1	< 5	169	150	-		118	38	< 25
12	< 5	12	44	-		95	< 1	< 25
14.7	2.5	110	110	-		103	5.21	12.5
14.3	<5	118	103	-		98	2	<25
2.59	0	46.6	31.5	-		8.04	10.5	0
		63	42	Clear		79	10	< 25
10.9			62	CLear		72	2	< 25
7.3		55	46			101	1	< 25
		73	66	clear		89	1	
		88	82	clear		95	2	< 25
8	< 5	94	94	Clear		95	2	< 25
9.3		64	70			120	6	
		65	54	ht brown colour		72	1	
		59	54	coloured		100	2	
		40	34			89	14	
		56	50			89	2	
6.1		50	182	clear		97	6	
5	1	11	12	-	0	12	12	5
10.9	< 5	94	182	-		120	14	< 25
6.1	< 5	40	34	-		72	1	< 25
8.32	2.5	64.3	69.7	-		91.5	4.08	12.5
8	<5	63	58	-		92	2	<25
1.85	0	15.8	39.2	-		13.4	4.17	0

Colour	Conductivit	Mg	Ca	Copper (Di	Odour	Total Zinc
Hz		Mg	Ca	Diss. Cu.		
Varies	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
Hazen	µS/cm	mg/l	mg/l	mg/l	Descriptive	mg/l
	169					
98	122					
35	145					
2	4	0	0	0	-	0
98	169				-	
35	122				-	
66.5	148				-	
66.5	150				-	
44.5	19.8				-	
104	129					
68	149	3.9	16			
61	149					
	157					
	166					
	168					
	149					
73	142					
80	142					
221	103					
126	125					
7	11	1	1	0		0
221	168	3.9	16			
61	103	3.9	16		-	
105	144	3.9	16		-	
80	149	3.9	16		-	
56.1	18.9	0	0		-	
192						
88						
84				< 0.004		
	140			0.005		
115						
113	121					
222						
123						
122						
8	2	0	0	2	-	0
222	140			0.005	-	
84	121			< 0.004	-	
132	130			0.004	-	
118	130			0.004	-	
48.9	13.5			0.002	-	
141						
80						
78				< 0.004		

	161			0.005		
91 96 192 116 116	135					
8	2	0	0	2	-	0
192	161			0.005	-	
78	135			< 0.004	-	
114	148			0.004	-	
106	148			0.004	-	
38	18.4			0.002	-	
59 45 32				< 0.004		
	385			0.005		< 0.025
43 63 346 97 50	260					
8	2	0	0	2	-	1
346	385			0.005	-	< 0.025
32	260			< 0.004	-	< 0.025
91.9	322			0.004	-	0.012
54.5	322			0.004	-	<0.025
105	88.4			0.002	-	0
101 64 55				< 0.004		
	235			0.005		< 0.025
64 83 284 111 121	167					
8	2	0	0	2	-	1
284	235			0.005	-	< 0.025
55	167			< 0.004	-	< 0.025
110	201			0.004	-	0.012
92	201			0.004	-	<0.025
74.1	48.1			0.002	-	0