

**REVISED ATTACHMENT No E.4
COMPLIANCE WITH APPLICABLE
MONITORING REQUIREMENTS AND
TREATMENT STANDARDS**

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INFLUENT ANALYSIS														EFFLUENT ANALYSIS													
Date	Q m ³ /d	Q as % Design Flow	PE	COD kg/d	BOD kg/d	COD: BOD	TN kg/d	TP kg/d	COD mg/l	BOD mg/l	SS mg/l	pH	NH ₃ mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Total Coliform /100ml	Faecal Coliform /100ml								
01-Dec-06	8171	105		678			637	71	10	83	78	7.44	5.7	8.7	1.2	0.6		4352000	1,401,000								
02-Dec-06	7693																										
03-Dec-06	7323																										
04-Dec-06	5700	73		371			148			65	26	7.4	5.3														
05-Dec-06	10282	132		812			535			79.0	52.0	7.4	4.6														
06-Dec-06	8552	110		462			359			54.0	42.0	7.6	5.3														
07-Dec-06	8293	107		705			481	96	12	85.0	58.0	7.34	5.2	11.6	1.4	0.6											
08-Dec-06	9094	117		400	309	1	391	100	7	44.0	43.0	7.4	5	11	1		10	767,000	218,000								
09-Dec-06	8616																										
10-Dec-06	8282																										
11-Dec-06	8606	111		757	620	1	534	181		88.0	72	62.0	7.49	5.2	21.0	10											
12-Dec-06	8689	112		756			487			87.0	56.0	7.52	8														
13-Dec-06	8632	111		1588			1088			184.0	126.0	7.47	6.4														
14-Dec-06	8643	111		1175			519	86	12	136.0	80.0	7.5	7.2	11	1.4	0.7											
15-Dec-06	9186	118		1433			753			186.0	82.0	7.5	8					3,873,000	521,000								
16-Dec-06	8682																										
17-Dec-06	8604																										
18-Dec-06	8270	106		1141			645			136.0	78.0	7.4	8.9														
19-Dec-06	8548	110		915			479	106	15	107.0	56.0	7.61	9.5	12.4	1.7	0.75											
20-Dec-06	8618	111		1491			914			173.0	106.0	7.6	10														
21-Dec-06	8773	113		965			474			110.0	54.0	7.5	10.8														
22-Dec-06	8388	108		11743	998	705	520	101		119.0	84.0	62.0	7.4	10.9	12		10	2,382,000	644,000								
23-Dec-06	7383																										
24-Dec-06	8308																										
25-Dec-06	7276																										
26-Dec-06	7145																										
27-Dec-06	7754	117																									
28-Dec-06	8225	117		740	345	2	1086	90	11	90.0	42.0	132.0	7.4	6.6	11.0	1.4	0.6										
29-Dec-06	8563	117																									
30-Dec-06	7808																										
31-Dec-06	8624																										
Average	8224	111	8245	905	495	2	591	105	11	106	58	69	7	7	12	1	10	3,049,400	653,000								

Date	COD mg/l	BOD mg/l	SS mg/l	pH	NH ₃ -N mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Salinity mg Cl/l	Tms'm %	Total Coliform /100ml	Faecal Coliform /100ml
01-Dec-06	22.7		2	7.3	0.1	1.7	0.39	0.26			100	26	2
02-Dec-06											100		
03-Dec-06											100		
04-Dec-06	12.6		2	7.5	0.1						100		
05-Dec-06	2.2		2	7.3	0.1						87		
06-Dec-06	13.30		2	7.4	0.3						87		
07-Dec-06	18.00		2	7.7	0.1	6.1	0.48	0.41			86		
08-Dec-06	15.0	2	5	7.4	0.1	4.8	0.41	0.38	<10	53	87	4	1
09-Dec-06											87		
10-Dec-06											89		
11-Dec-06	10.0		2	7.4	0.1						88		
12-Dec-06	10.6		2	7.5	0.1						88		
13-Dec-06	14.40		4	7.5	0.1						86		
14-Dec-06	13.40		2	8.0	0.1	6.1	0.5	0.5			88		
15-Dec-06	25.7		2	7.6	0.2						87	8	1
16-Dec-06											86		
17-Dec-06											87		
18-Dec-06	14.3		2	7.5	0.2						87		
19-Dec-06	17.8		2	7.6	0.1	2.0	0.3	0.2			87		
20-Dec-06	19.9		4	7.3	0.2						87		
21-Dec-06	24.1		2	7.5	0.1						87		
22-Dec-06	19.3		2	7.5	0.3						87	25	1
23-Dec-06											87		
24-Dec-06											88		
25-Dec-06											88		
26-Dec-06											89		
27-Dec-06											87		
28-Dec-06	12.3		2		0.1	1.5	0.3	0.2			88	15	1
29-Dec-06											89		
30-Dec-06											88		
31-Dec-06											88		
Average	15.6	2.0	2.4	7.5	0.1	3.7	0.4	0.3		53.0	89.1	15.6	1.2

INFLUENT ANALYSIS																					
Date	Q m ³ /d	Q m ³ /d	Q m ³ /d	PE	COD l/gd	BOD l/gd	SS l/gd	TN l/gd	TP l/gd	COD mg/l	BOD mg/l	SS mg/l	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Total Coliform /100ml	Faecal Coliform /100ml	
01-Jan-07	7325	94																			
02-Jan-07	7876	101																			
03-Jan-07	8232	106																			
04-Jan-07	7839	101	8492	510	1	590	118	10	71	65	74	7.4	7.5	15	1.3			10	4,352,000	920,800	
05-Jan-07	8255	106		892		479	96	14	108		58	7.4	8.1	11.6	1.7	0.85					
06-Jan-07	7593																				
07-Jan-07	7039																				
08-Jan-07	7813	100		1117		750				143	96	10.5									
09-Jan-07	7569	97		1173		727				155	96	7.49	7.9								
10-Jan-07	8003	103		952		752				119	94	7.28	7.7								
11-Jan-07	8311	107		956		981	135	15	115	118	118	7.54	9.6	16.2	1.85	0.93					
12-Jan-07	8444	121	12120	1199	727	2	699	113	127	77	74	7.63	10.3	12				10	7,701,000	1,145,000	
13-Jan-07	7853																				
14-Jan-07	7521																				
15-Jan-07	8409	108		1017		420				121	50	7.5	12								
16-Jan-07	8251	106		1271		1106				154	134	7.5	10.9								
17-Jan-07	8241	106		1459		692				177	84	7.6	9.6								
18-Jan-07	8439	109		1080		844	91	17	128	100	7.3	10.7	10.8	2.00	0.93						
19-Jan-07	8464	109	6207	753	372	2	471	66	89	44	56	7.52	7.6	11				10	2,382,000	631,000	
20-Jan-07	8110																				
21-Jan-07	7105																				
22-Jan-07	8000	103		2098		1552				162	194	7.3	11.2								
23-Jan-07	8199	105		1312		738				166	90	7.66	12.3								
24-Jan-07	8070	104		888		500				10	62	7.6	10								
25-Jan-07	8049	104		974		590	16	121	121	72	7.9	10.5	15.8	1.93	1.28						
26-Jan-07	8605	111	16836	1575	998	2	861	138	183	116	100	7.33	13.3	16				10	8,164,000	933,000	
27-Jan-07	8456																				
28-Jan-07	7188																				
29-Jan-07	8014	103		1306		593				163	74	7.67	15.1								
30-Jan-07	7614	98		1546		822				203	106										
31-Jan-07	7803	98		1865		699				248	92.0										
Average	7884	104	10,864	1200	652	2	742	112	14	148	75.5	91.3	7.5	10.95	13.85	1.756	1	10	5,649,780	907,450	

EFFLUENT ANALYSIS													
Date	COD mg/l	BOD mg/l	SS mg/l	pH	NH3-N mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Salinity mg/ccl	Total Coliform /100ml	Faecal Coliform /100ml	
01-Jan-07											84		
02-Jan-07											88		
03-Jan-07											88		
04-Jan-07	15.0	2	5	7.4	0.1	5.0	0.39	0.34	10	60	89	20	
05-Jan-07	28.1		2	7.5	0.1	0.5	0.38	0.31			88		
06-Jan-07											88		
07-Jan-07											89		
08-Jan-07	17		2		0.1						88		
09-Jan-07	13.8		2	7.5	0.1						89		
10-Jan-07	12.6		2	7.4	0.1						88		
11-Jan-07	21		2	7.4	0.6	9.5	0.5	0.4			88		
12-Jan-07	18	2	2	7.7	0.3	4.0			10	49	88	49	
13-Jan-07											88		
14-Jan-07											89		
15-Jan-07	17		2	7.4	0.1						88		
16-Jan-07	21.8		2	7.5	0.1						89		
17-Jan-07	18.4		2	7.9	0.1						88		
18-Jan-07	20.1		2	7.2	0.2	3.6	0.43	0.33			88		
19-Jan-07	17	2	2	7.3	0.1	4.0			10	89	89	4	
20-Jan-07											88		
21-Jan-07											88		
22-Jan-07	17		2	7.1	0.1						88		
23-Jan-07	22		2	7.4	0.1						88		
24-Jan-07	19.2		2	7.5	0.1	8.5	0.71	0.53			89		
25-Jan-07	21.7		2	7.5	0.1						88		
26-Jan-07	14	3	2	7.1	0.3	5.4			10	149	89	5	
27-Jan-07											88		
28-Jan-07											88		
29-Jan-07	17		2	7.6	0.1						88		
30-Jan-07	19.8		2								88		
31-Jan-07	19.7		2		0.10						89		
Average	18.4	2.3	2.2	7.4	0.2	5.1	0.5	0.4	10.0	66.8	85.2	19.5	
													2.8

INFLUENT ANALYSIS																						
Date	Q m ³ /d	Q as % Design Flow	PE	COD light	BOD light	COD BOD	SS light	TN light	TP light	COD light	BOD light	SS light	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Sulfide mg/l	Total Coliform /100ml	Fecal Coliform /100ml	
01-Feb-07	7047	91	1170	920	696	1	522	101	12	127	96	72	7.4	9.6	14	1.7		10		4,352,000	809,000	
02-Feb-07	7245	93	11592																			
03-Feb-07	7323	94																				
04-Feb-07	6393	82																				
05-Feb-07	7214	93	1133				519			157		72	7.6	12.1								
06-Feb-07	7406	95	1052				489			142		66	7.3									
07-Feb-07	5124	66	1020				605			199		118	7.6	13.5								
08-Feb-07	7316	94	1770				1171			13	242	160	7.6	5.3	2.9	1.8	1					
09-Feb-07	8192	105	8975				532			92	65	74	7.5	8.5	11							
10-Feb-07	6621	85																				
11-Feb-07	6606	86																				
12-Feb-07	7344	94																				
13-Feb-07	6606	85																				
14-Feb-07	7159	92	1009				716			141		100	7.3	9.9								
15-Feb-07	6810	86	1096				572			17	161	84	7.5	13.9	9.5	2.5	1.2					
16-Feb-07	7680	101	5779				347			347	788	102	129	44	100	7.7	8.4	13				
17-Feb-07	6696	86																				
18-Feb-07	6404	82																				
19-Feb-07	6694	89					1655															
20-Feb-07	6590	85	277				185			42		240	7.6	7.2								
21-Feb-07	7656	101	723				409			42		28	7.6	2								
22-Feb-07	7352	95	735				471			10	100	64	7.7	4.5	6.9	1.4	0.6					
23-Feb-07	7690	99	3717				754			223	3	369	69	86	29	48	7.6	5.9	9			
24-Feb-07	6766	87																				
25-Feb-07	5955	77																				
26-Feb-07	7038	90	1069				690			152		86	7.6	7.6								
27-Feb-07	7761	100	590				590			129		76	7.5	7.4								
28-Feb-07	7608	86	1073				685			141		90	9.1	9.1								
Average	7040	81	7491	975	448	2	660	72	14	136	59	82	7.5	8	9	2	1	10	134	88	47	3

EFFLUENT ANALYSIS													
Date	Q m ³ /d	COD mg/l	BOD mg/l	SS mg/l	pH	NH3-N mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Sulfide mg/l	Total Coliform /100ml	Fecal Coliform /100ml
01-Feb-07	7047	30.6		2	7.5	0.1	6.0	0.48	0.38			89	
02-Feb-07	7245	15.0	2	5	7.2	0.1	2.0	0.40	0.40	10	97	89	2
03-Feb-07	7323											88	
04-Feb-07	6393											87	
05-Feb-07	7214	28		6	7.6	0.2						89	
06-Feb-07	7406	25		2	7.2							88	
07-Feb-07	5124	23		10	7.6	0.1						88	
08-Feb-07	7316	27		6	7.5	0.1	2.9	0.52	0.42			89	
09-Feb-07	8192	23	2	2	7.1	0.1	3.0			<10	176	86	9
10-Feb-07	6621											86	
11-Feb-07	6606											87	
12-Feb-07	7344											87	160
13-Feb-07	6606											87	
14-Feb-07	7159	6		2	7.1	0.1						87	
15-Feb-07	6810	28		2	7.5	0.4	9.5	0.48	0.39			86	
16-Feb-07	7680	22	4	2	7.5	0.1	3.0			10	87	88	
17-Feb-07	6696											87	
18-Feb-07	6404											87	
19-Feb-07	6694											86	
20-Feb-07	6590	14		2	7.6	0.2						88	
21-Feb-07	7656	14		2	7.3	0.2						88	
22-Feb-07	7352	21		2	7.5	0.4	0.1	0.40	0.32			88	
23-Feb-07	7690	19	2	4	7.6	0.1	6.0			10	177	88	1
24-Feb-07	6766											88	
25-Feb-07	5955											88	
26-Feb-07	7038	18		2	7.5	0.1						89	
27-Feb-07	7761	9		2	7.5	0.1						88	
28-Feb-07	7608	15		2	7.5	0.2						88	60
Average	7040	20	3	3	7	0	4	0	0	10	134	88	47

INFLUENT ANALYSIS																					
Date	Q m ³ /d	Q as % Desig in Flow	PE	COD kg/d	BOD kg/d	COD BOD	SS kg/d	TN kg/d	TP kg/d	COD mg/l	BOD mg/l	SS mg/l	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Total Coliform /100ml	Faecal Coliform /100ml	
01-Mar-07	7449	96		767			402	96	14	103		54	7.52	8.8	12.9	1.9	1.03				
02-Mar-07	8354	107	11696	1220	702	2	860	109	17	146	84	103	7.4	9.1	13	2.1		10			
03-Mar-07	7593	88																			
04-Mar-07	6483	83																			
05-Mar-07	7865	101		315			346			40		44	7.8	6					1,842,000	512,000	
06-Mar-07	7831	101		713			611			91		78	7.6	4.4							
07-Mar-07	7702	99		747			431			97		56	7.7	6.2							
08-Mar-07	7018	90		625			337	77	12	89		48	7.7	8	11	1.8	0.72				
09-Mar-07	7928	102	3171	682	190	4	317	87		86	24	40	7.74	7.3	11			10			
10-Mar-07	7863	101																			
11-Mar-07	6552	84																			
12-Mar-07	7671	99		959			583			125		76	7.61	7.9							
13-Mar-07	8134	105		634			456			78		56	7.46	9.7							
14-Mar-07	7253	93		1277			870			176		120	7.5	11.9							
15-Mar-07	8117	104		1007			487	97	16	124		60	7.4		12	2.0	0.95		3,784,000	723,000	
16-Mar-07	8234	106	8920	1112	535	2	593	115		135	65	72	7.6	11.2	14			10			
17-Mar-07	8830	114																			
18-Mar-07	7940	102																			
19-Mar-07	6995	90																			
20-Mar-07	7743	100		1007			403			130		52	7.49	11.7					14,136,000	2,014,000	
21-Mar-07	7893	102		1271			1989			161		262	7.5	14.3							
22-Mar-07	6782	87		1289			827	81	14	190		122	7.5	13.5	12	2.1	0.93				
23-Mar-07	8498	109	9773	1173	566	2	680	127		138	69	80	7.71	10	15			10			
24-Mar-07	9088	117																			
25-Mar-07	5417	70																			
26-Mar-07	7196	93		1777			1079			247		150	7.54	13.9							
27-Mar-07	5672	73		1565			953			276		168	7.61	17.3							
28-Mar-07	7368	95		1459			825			198		112	7.8	11.9							
29-Mar-07	7531	97		2192			1491			291		198	7.6								
30-Mar-07	7685	99	16651	1914	969	2	1460			249	130	190	7.69	13.5	17			18	7,701,000	2,755,000	
31-Mar-07	7544	97																			
Average	7656.4	97.2	10042.1	1129	603	2	762	99	15	151	74	101	7.59	10	13.1	1.9	0.91	11.6	6,865,750	1,501,000	

EFFLUENT ANALYSIS													
Date	COD mg/l	BOD mg/l	SS mg/l	pH	NH3-N mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Salinity mg Cl/l	Trmsm %	Total Coliform /100ml	Faecal Coliform /100ml
01-Mar-07	18		2	7.3	0.1	6.5	0.94	0.79			86		
02-Mar-07	16	2	5	7.2	0.1	5.0	0.75		10	60	87		
03-Mar-07											88		
04-Mar-07											88		
05-Mar-07	16		2	7.4	0.1						88	21	2
06-Mar-07	18		2	7.5	0.1						88		
07-Mar-07	19		2	7.7	0.1						88		
08-Mar-07	23		2	7.5	0.3	3.1	0.39	0.34			89		
09-Mar-07	11	2	2	7.6	0.2	5.0			10	106	88		
10-Mar-07											88		
11-Mar-07											88		
12-Mar-07	17		2	7.4	1.3						88		
13-Mar-07	21		2	7.2	0.1						88		
14-Mar-07	15		2	7.4	0.6						87		
15-Mar-07	16		2	7.4		3.5	0.6	0.51			88	64	4
16-Mar-07	19	2	2	7.4	0.2	5.0			10	38	87		
17-Mar-07											88		
18-Mar-07											87		
19-Mar-07											89		
20-Mar-07	16		2	7.5	0.1						88	461	37
21-Mar-07	22		4	7.4	0.1						88		
22-Mar-07	19		10	7.3	0.1	3.7	0.8	0.64			88		
23-Mar-07	21	4	12	7.6	0.1	4.0			10	373	86		
24-Mar-07											86		
25-Mar-07											88		
26-Mar-07	28		2	7.5	0.1						88		
27-Mar-07	21		2	7.5	0.1						87		
28-Mar-07	25		2	7.6	0.1						86		
29-Mar-07	22		2	7.6		3.5	0.9	0.71			87		
30-Mar-07	17	2	2	7.7	1.20	2.0			10	78	86	24	3
31-Mar-07											87		
Average	19	2	3	7.5	0.27	4.1	0.7	0.6	10	131	88	143	12

INFLUENT ANALYSIS														EFFLUENT ANALYSIS													
Date	Q m ³ /d	Q as % Design Flow	PE	COD kg/d	BOD kg/d	COD: BOD	SS kg/d	TN kg/d	TP kg/d	COD mg/l	BOD mg/l	SS mg/l	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Total Coliform /100ml	Faecal Coliform /100ml							
01-Apr-07	6611	85																									
02-Apr-07	6624	85		1391			742			210		112	7.64	14.6													
03-Apr-07	6799	87		1278			884			188		130	7.67	11.6													
04-Apr-07	6187	80		1448			990			234		160	7.7	12.7													
05-Apr-07	7844	101		2181			1428	128	25	278		182	7.6	15.7	16.3	3.25	1.59										
06-Apr-07	7345	94	11018	911	661	1	646	103	10	124	90	86	7.4	14	1.41												
07-Apr-07	7897	102																									
08-Apr-07	5972	77																									
09-Apr-07	5687	73																									
10-Apr-07	6110	79																									
11-Apr-07	6102	78		934			323			153	53																
12-Apr-07	3700	48						12																			
13-Apr-07	6295	81	15738		944		138				150				22			20	2,247,000	52,000							
14-Apr-07	8134	105																									
15-Apr-07	6357	82																									
16-Apr-07	5972	77																									
17-Apr-07	6347	82																									
18-Apr-07	5894	76																									
19-Apr-07	6589	85																									
20-Apr-07	7329	94	14414	1627	865	2	865	125		222	118	118	7.8	18.8	17		1.93	11	19,863,000	2,282,000							
21-Apr-07	6624	85																									
22-Apr-07	5924	76																									
23-Apr-07	6460	83																									
24-Apr-07	6743	87																									
25-Apr-07	6766	87																									
26-Apr-07	6472	83		1553			1760	120		240	272	272	7.65	16.6	18.5		1.60		9,208,000	2,603,000							
27-Apr-07	6389	82	16824	2326	1009	2	1303	153		364	168	204	7.55	22.4	24			10									
28-Apr-07	6174	79																									
29-Apr-07	5672	73																									
30-Apr-07	6029	78		2562			994			425		284	7.58														
Average	6435	83	14498	1621	870	2	994	135	17	244	129	160	7.6	16	19.9	2.79	1.70	13	10,439,333	1,645,667							

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INFLUENT ANALYSIS														EFFLUENT ANALYSIS													
Date	Q m ³ /d	Q as % Design Flow	PE	COD kg/d	BOD kg/d	COD kg/d	BOD kg/d	SS kg/d	TN kg/d	TP kg/d	COD mg/l	BOD mg/l	SS mg/l	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Total Coliform/100ml	Faecal Coliform/100ml						
01-May-07	6062	78		2297		379		218	7.61	21.1											12,033,000	2,489,000					
02-May-07	6119	79		1964		321		188	7.87	18.3																	
03-May-07	5812	75		1703		293		226		23.4	4.7	2.4															
04-May-07	5855	75	13467	1382	808	1.7	919	117	21	236	138	157	7.6	14.1	20	3.52	16										
05-May-07	5978	77																									
06-May-07	6105	79																									
07-May-07	5449	70																									
08-May-07	6489	83		2829		436		302	7.6	20.5																	
09-May-07	5254	68		1818		346		200	7.61	22.8											10,462,000	2,481,000					
10-May-07	5921	76		1940		829	120	25	277	140	7.68	20.6	20.2	4.15	2.1												
11-May-07	6773	87	17487	1998	1050	1.9	1179	169	295	155	174	7.74	23.4	25													
12-May-07	6421	83																									
13-May-07	5563	72																									
14-May-07	5997	77		1553		1067		178	7.59	12.6											19,863,000	1,467,000					
15-May-07	4896	63		1537		979	103	21	200	7.76	20.3	21	4.35	2.15													
16-May-07	5634	72		1375		765		134	7.71	17.4																	
17-May-07	4909	63		1267		648		132	7.67	17.5																	
18-May-07	5428	70	4523	271		56	199																				
19-May-07	4980	64																									
20-May-07	4547	58																									
21-May-07	4941	64		1640		332		304	7.66	19.9																	
22-May-07	5052	65		2420		479		304	7.61	18.2																	
23-May-07	4476	58																									
24-May-07	4842	62	34298	7989	2058	4652	107	38	1650	425	1002	7.59	23.4	22	7.8	6.18				4,600,000	4,600,000						
25-May-07	5920	76	16773	1871	1006	1.9	1006		316	170	170	8.04															
26-May-07	5495	71																									
27-May-07	3511	45																									
28-May-07	5188	66		2553		2274		494	440	7.56	27.8																
29-May-07	5610	72		2799.4		1717		499	306	21.9																	
30-May-07	5732	74		4069.7		2469	109	32.7	710	436	7.37																
31-May-07	6117	79		1908.5		1199		312	196	7.53	16.1																
Average	5818.3	71.0	17312	2331	1039	2	1466	123	27	423	188	266	7.6	19.7	22.4	6.04	3.05	18		11,739,600	2,759,250						

Date	COD mg/l	BOD mg/l	SS mg/l	pH	NH3-N mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Salinity mg Cl/l	Tms'm %	Total Coliform /100ml	Faecal Coliform /100ml
01-May-07	26.0		4	7.5	0.1						85	880	69
02-May-07	43.8		14	7.4	0.3						87		
03-May-07	26.5		18			2.8	0.33	0.18			88		
04-May-07	15.0	2	5	7.4	0.1	2.5	0.24	0.17	<10	685	87		
05-May-07											88		
06-May-07											89		
07-May-07											86		
08-May-07	26		2	7.5	0.2						88		
09-May-07	20		6	7.3	0.5						87	159	12
10-May-07	22		6	7.3	0.3	1.4	0.36	0.20			88		
11-May-07	17	2	2	7.5	0.4	2.0			<10	158	87		
12-May-07											81		
13-May-07											87		
14-May-07	36		2	7.3	0.1						88	31	2
15-May-07	22		2	7.4	0.2	1.3	0.26	0.12			88		
16-May-07	13		2	7.4	0.1						89		
17-May-07	20		2	7.5	0.2						89		
18-May-07		2				2.0			<10	97	89		
19-May-07											88		
20-May-07											91		
21-May-07	14		2	7.5	0.3						88		
22-May-07	15		6	7.5	0.6						88		
23-May-07											86		
24-May-07	45.5		10	7.5	1.8	7.6	5.00	4.55	<10	216	77	240	240
25-May-07	30.7	4	4	7.6		2.0	3.0				86		
26-May-07											84		
27-May-07											82		
28-May-07	28.8		2	7.6	0.1						84		
29-May-07	24.6		2	7.7	0.1						82		
30-May-07	23.8		2	7.7		1.5	0.2	0.12			84		
31-May-07	32.2		2	7.5	0.20						84		
Average	25.1	3	5	7.5	0.71	2.1	2.7	1	0.89	269	86.2903	353	81

INFLUENT ANALYSIS																								
Date	Q, m3/d	Q, % Flow	PE	COO, mg/d	BOO, mg/d	COO, mg/d	SS, mg/d	TN, mg/d	TP, mg/d	COO, mg/d	BOO, mg/d	SS, mg/d	pH	NH3, mg/d	TN, mg/d	TP, mg/d	OP, mg/d	COO, mg/d	BOO, mg/d	SS, mg/d	Fecal Coliform /100ml	Total Coliform /100ml		
01-Jun-07	6311	81	23140	1647.17	1388	1	1988	151	25	261	220.0	315	7.5	22.9	24	3.99		11					11000000	2,400,000
02-Jun-07	6995																							
03-Jun-07	5215																							
04-Jun-07	5729																							
05-Jun-07	5475	70		1664.4			1051			304		192	7.7	25.7										
06-Jun-07	5670	73		1678.32			1381			296		240	7.6	25.1										
07-Jun-07	4630	60		2509.46			1815	177	30	542		392	7.81	29.9	38	7	4.44							
08-Jun-07	5719	74		24792	1699.88	1487	1	2253	172	278	260	394	7.6	25.9	30			63	11,000,000	4,600,000				
09-Jun-07	4908																							
10-Jun-07	4436																							
11-Jun-07	4059	52		1022.87			1356			252		334	7.6	33.1										
12-Jun-07	5199	67		1918.43			1549			369		298	7.43	11.0										
13-Jun-07	3420	44		1364.66			848			399		248	7.73	24.7										
14-Jun-07	4086	53		1973.54			899	100	27	483		220	7.6	24.3	24	7	3.65							
15-Jun-07	6076	78		6653	2411.76	407.6	753	85		397	66	124	7.4	16.8	14			10	11,000,000	1,100,000				
16-Jun-07	6295																							
17-Jun-07	5228																							
18-Jun-07	5777	74		1569			759			275		128	8.0	18.3										
19-Jun-07	5466	70		1727			383			316		70	8.06	15.2										
20-Jun-07	5201	67		1019			739			198		142	8.01	10.3										
21-Jun-07	5535	71		963			443	61		174		80	8.1	12.9	11	3.30	2.05							
22-Jun-07	7042	91		12910	1908	775	2	676	120	327	110	96	8.2	25.1	17			10						
23-Jun-07	6109																							
24-Jun-07	4942																							
25-Jun-07	6093	76																						
26-Jun-07	5405	70		2811			1751			520		300	8.15	21.6										
27-Jun-07	4982	64		4319			1475			867.0		296.0	8.05	17.3										
28-Jun-07	5308	68		1884			1221	133	31	355.0		230.0	8.2	23.9	25.0	5.9	3.1					11,000,000	4,600,000	
29-Jun-07	5519	71		8187	1347	491	3	806	155	244.0	86.0	146.0	8.16	23	28									
30-Jun-07	5904																							
Average	5424.4	69	15140	1880	908	3	1153	128	26	358	149	225	7.8	21	23.51	5.228	3.31	21.6	13,500,000	2,632,000				

EFFLUENT ANALYSIS													
Date	COO, mg/l	BOO, mg/l	SS, mg/l	pH	NH3-N, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Safety, mg Cl2	Transm %	Total Coliform /100ml	Fecal Coliform /100ml
01-Jun-07	16.0	2	5	7.2	0.1	2.2	0.12	0.07	<10	565	84	4	4
02-Jun-07													
03-Jun-07													
04-Jun-07													
05-Jun-07	23		18	7.5	0.1								
06-Jun-07	40		20	7.7	0.9								
07-Jun-07	30		10	7.5	1.3	3	0.40	0.28					
08-Jun-07	32	4	10	7.3	3.2	4			<10	437	79	3	3
09-Jun-07													
10-Jun-07													
11-Jun-07	36		6	7.3	0.1								
12-Jun-07	22		2	7.3	0.1								
13-Jun-07	56		14	7.5	0.1								
14-Jun-07	27		12	7.4	0.4	0.2	0.48	0.35					
15-Jun-07	76	2	22	7.4	0.1	2			10	645	77	460	83
16-Jun-07													
17-Jun-07													
18-Jun-07	60		38	7.6	0.1								
19-Jun-07	58		16	7.9	0.1								
20-Jun-07	36		14	7.9	0.2								
21-Jun-07	32		4	7.8	0.1	0.1	0.49	0.33					
22-Jun-07	38	2	20	7.8	0.1	2			10.0	246	74		
23-Jun-07													
24-Jun-07													
25-Jun-07													
26-Jun-07	30.9		4	8.0									
27-Jun-07	53.6		4	8.0	0.2								
28-Jun-07	31.8		4	8.1	0.1	2.0	0.5	0.3					
29-Jun-07	3	4.0	2	7.9	0.4	2.0			10.0	259	81		
30-Jun-07													
Average	36.9	2.8	11.8	7.6	0.43	1.9	0.4	0.3	10.0	435.4	78.1	322.0	46.4

WWD Application Form

INFLUENT ANALYSIS																					
Date	Q, m ³ /d	Q as % Design Flow	PE	COD, kg/d	BOD, kg/d	COD, BOD, kg/d	SS, kg/d	TN, kg/d	TP, kg/d	COD, mg/l	BOD, mg/l	SS, mg/l	pH	NH3-N, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Total Coliform /100ml	Faecal Coliform /100ml	
01-Jul-07	4882	63																			
02-Jul-07	5610	72		1245		482				222.0		86.0		20.2							
03-Jul-07	5211	67		1600		844				307		162	8.08	21.3					24,196,000	1,723,000	
04-Jul-07	5381	69		1388		901				259		168		16.9							
05-Jul-07	5652	73		1436		814	117	22	254.0			144.0	8.0	19.3	20.7	3.9	2.55				
06-Jul-07	5513	71	6891	1053	413	3	656	105	16	191.0	75	119.0	7.5	18.1	19	2.89		<10			
07-Jul-07	5610	72																			
08-Jul-07	4614	59																			
09-Jul-07	5376	69		1247		978				232.0		182.0	8.07	15.7							
10-Jul-07	5641	73		1585		891				281.0		188.0	7.82	22.8							
11-Jul-07	5577	72		1645		837				295.0		150.0	7.84	22.8							
12-Jul-07	5510	71		1978		1190	111	32	359.0			216.0	7.83	22.1	20.2	5.8					
13-Jul-07	6732	87	7293	586	438	1	293	54	87.0	65.0	42.0	7.54	5.4	8				<10	17,329,000	1,529,000	
14-Jul-07	6251	80																			
15-Jul-07	5102	66																			
16-Jul-07	5352	69		1739		1210				325.0		228.0		20.1							
17-Jul-07	6310	81		2379		1325				377.0		210.0	7.8	17.1							
18-Jul-07	5634	72		1521		1037				260.0		184.0	7.8	17.0							
19-Jul-07	6375	82		1696		1007	115			266.0		198.0	7.78	18.3	18.1				24,000,000	4,600,000	
20-Jul-07	6310	81	13987	2057	839	2	1010	145	328.0	133.0	190.0	7.78	23	23			2.55	17			
21-Jul-07	5935	76																			
22-Jul-07	5474	70																			
23-Jul-07	5637	72		1629		744				289.0		132.0	7.75								
24-Jul-07	5409	70		1542		822				285.0		152.0	7.0	21							
25-Jul-07	5331	69		1663		736				312.0		138.0	7.8	17.1							
26-Jul-07	5138	66		956		894	17	30	186.0			174.0	7.73	16.8	3.4	5.88					
27-Jul-07	3830	49	8171	831	490	2	475	73	217.0	128.0	124.0	7.75		19				11	2,400,000	2,400,000	
28-Jul-07	6129	79																			
29-Jul-07	5223	67																			
30-Jul-07	6795	87		2616		1590				385.0		234.0									
31-Jul-07	5054	65		1552		1183				307.0		234.0		22.3							
Average	5566	72	3066	1543	545	2	905	92	25	274	100	162	8	19	16	6	3	14	16,981,250	2,583,000	

EFFLUENT ANALYSIS													
Date	COO, mg/l	BOD, mg/l	SS, mg/l	pH	NH3-N, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Salinity, mg Cl/l	Transm %	Total Coliform /100ml	Faecal Coliform /100ml
01-Jul-07											81		
02-Jul-07	12		4		0.1						79		
03-Jul-07	28		2	8.0	0.1						79	2130	147
04-Jul-07	28		4		0.7						79		
05-Jul-07	30		12	7.9	0.1	2.6	0.62	0.45			80		
06-Jul-07	15	2	5	7.4	0.1	2.0	0.67	0.61	<10	451	81		
07-Jul-07											81		
08-Jul-07											79		
09-Jul-07	15		8	7.9	0.1						71		
10-Jul-07	2		4	7.6	0.1						79		
11-Jul-07	27		2	7.6	0.6						78		
12-Jul-07	17		4	7.5	0.1	0.1	0.82				79		
13-Jul-07	66	4	6	7.7	0.1	2.0			<10	310	78	816	38
14-Jul-07											79		
15-Jul-07											76		
16-Jul-07	87		8		0.6						76		
17-Jul-07	26		20	7.6	1.0						76		
18-Jul-07	25		12	7.5	0.4						78		
19-Jul-07	39		10	7.5	0.2	3.0	0.72	0.58			77	460	93
20-Jul-07	24	4	14	7.6	0.2	2.0			<10	566	79		
21-Jul-07											77		
22-Jul-07											77		
23-Jul-07	16		4	7.6							75		
24-Jul-07	15		2	7.7	0.1						76		
25-Jul-07	19		2	7.6	0.1						76		
26-Jul-07	13		4	7.6	0.2	1.1	0.70				77		
27-Jul-07	19	4	2	7.8		2.0			<10	52	77	2400	460
28-Jul-07											76		
29-Jul-07											79		
30-Jul-07	29		2								77		
31-Jul-07	21		16		0.10						77		
Average	26	4	7	7.7	0.3	1.85	0.71	0.65	344.75	77.87742	1482	184.5	

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INFLUENT ANALYSIS														EFFLUENT ANALYSIS													
Date	Q as % Design Flow	PE	COD kg/d	BOD kg/d	COD: BOD	SS kg/d	TN kg/d	TP kg/d	COD mg/l	BOD mg/l	SS mg/l	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OCF mg/l	Total Coliform /100ml	Faecal Coliform /100ml								
01-Aug-07	4843	62	1584			901			323		186	7.64	7.64														
02-Aug-07	5917	76	2154						384																		
03-Aug-07	5928	76	17778	1067	2	1345	160	27	325	180	227	7.4		27	4.60		<10	11,000,000	11,000,000	4							
04-Aug-07	5827																										
05-Aug-07	5539																										
06-Aug-07	4791	62	1514						316																		
07-Aug-07	5578	72	1707			892	129		306		124		22.3	23.2													
08-Aug-07	5539	71	1518			842		5	274		152		21														
09-Aug-07	5603	72	2185			706			390		126		20.2														
10-Aug-07	6389	82	14375	863	2	833	128		306	135	146	7.77	21.8	20			<10	48,000,000	11,000,000								
11-Aug-07	6184																										
12-Aug-07	5012																										
13-Aug-07	4939	64	1462			741			286		150	7.72	20.4														
14-Aug-07	5554	71	1811			1006			326		180	7.6	19.5														
15-Aug-07	5871	76	2278			1573	117	4	388		288		1	20													
16-Aug-07	5941	75	1793			981			307		168	7.8	16.3														
17-Aug-07	6639	85	14385	863	2	1142	133		288	130	172	7.7	19.9	20			20										
18-Aug-07	6544																										
19-Aug-07	6052																										
20-Aug-07	6369	82	3070			1707			482		268	7.65	21.7														
21-Aug-07	5995	77	1673			1763			278		294	7.8	18.7														
22-Aug-07	5353	69	1938			1156			362		216		21.3														
23-Aug-07	5868	75	1567			763	127	8.0	267		190		24	22	8.0	5.38											
24-Aug-07	6157	79	14386	862	2	1416	179		322	140	230		19	29			10.0	4,600,000	4,600,000	23							
25-Aug-07	5446																										
26-Aug-07	5383																										
27-Aug-07	5505	71	2406			1277			437		232	7.79	25.6														
28-Aug-07	5843	75	1805			923			309		158	7.8	21.1														
29-Aug-07	5610	72	2384			1638			425		292	7.96	23.4														
30-Aug-07	5681	73	2140			956			376		188		24.8														
31-Aug-07	6842	88	10947	2723	4	835	144		398	96	122	7.66	22.9	21			16										
Average	5763.2	74.2	14370.3	1979.7	2.6	1109.0	135.6	31.2	342.4	135.2	180.9	7.7	19.6	22.7	5.4	5.4	15.3	43520000	11720000	21.6							

INFLUENT ANALYSIS																				
Date	Q, m3/d	Q as % Design Flow	PE	COD, kg/d	BOD, kg/d	COD, BOD	SS, kg/d	TN, kg/d	TP, kg/d	COD, BOD	SS, mg/l	pH	NH3, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Total Coliform /100ml	Faecal Coliform /100ml	
01-Sep-07	5657	73																		
02-Sep-07	5961	77																		
03-Sep-07	5711	73		1770	114						310		20							
04-Sep-07	5119	66		3842						770										
05-Sep-07	5613	72									94.0									
06-Sep-07	5628	72																		
07-Sep-07	5400	69	30150	3715	1809	2	2981	173	44	688	552.0	7.2		32.0	8.1		59	24,000,000	11,000,000	
08-Sep-07	4837	62																		
09-Sep-07	4490	56																		
10-Sep-07	5588	72		2347			1218			420	218	7.7	23.2							
11-Sep-07	5975	77		2599			1362			435	228	7.8	21.3							
12-Sep-07	5875	76		2562			1434			436	244	7.7	23.3							
13-Sep-07	6062	76		1382			740	130	22	228	122	7.8	19.2	21.4	3.55	1.90				
14-Sep-07	6359	82	18215	2029	973	2	1030	181		319	162	7.9	23.2	30			<10	11,000,000	4,600,000	
15-Sep-07	5964	77																		
16-Sep-07	5912	76																		
17-Sep-07	5398	69		2230			1396			116	262.0	7.8	21.1							
18-Sep-07	5212	67		1501			792			268	152.0	7.9	18.2							
19-Sep-07	5106	66		1511			0			296		7.85	24							
20-Sep-07	5480	70		1523			855	122	22	278	158.0	7.9	22.1	22.3	3.85	2.55				
21-Sep-07	5643	73		4108			3284			728	582.0	7.6	16.9					2,400,000	2,400,000	
22-Sep-07	5371	69																		
23-Sep-07	4568																			
24-Sep-07	805	10		250			188			311	246.0	7.5	20							
25-Sep-07	10145	130		3604			2738			375	270.0	7.4	19.7							
26-Sep-07	4837	62		2390			1461			492	302.0	7.91	26.5							
27-Sep-07	5157	66		1681			1145	118	16	326	222.0	7.75	22.8	22.9	3.1	3.15				
28-Sep-07	6359	82	5617	1959	337	6	496	102		308	53	78.0	7.5	14.1	16.0		<10	12,486,667	6,000,000	
29-Sep-07	6111	79																		
30-Sep-07	5223	67																		
Average	5518	71	17328	2325	1040	3	1116	135	26	419	180	247	8	21	24	5	3	59	12466667	6000000

EFFLUENT ANALYSIS													
Date	COD, mg/l	BOD, mg/l	SS, mg/l	pH	NH3-N, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Salinity, mg Cl/l	Turbidity %	Total Coliform /100ml	Faecal Coliform /100ml
01-Sep-07													
02-Sep-07													
03-Sep-07	14.8		4		0.2								
04-Sep-07	16.5		6										
05-Sep-07	20.0		8		0.4								
06-Sep-07	16.00		5		0.1								
07-Sep-07	15.00	4	5	7.2	0.2	2.0	0.6	0.5	10	146	81	3	3
08-Sep-07													
09-Sep-07													
10-Sep-07	18.0		4	7.7	0.3								
11-Sep-07	14.5		6	7.6	0.3								
12-Sep-07	24.5		12	7.7	0.2	2.1							
13-Sep-07	30.20		30	7.7	0.4	1.0	0.9						
14-Sep-07	13.40	4	18	7.8	0.8	<2			<10	522	81	43	43
15-Sep-07													
16-Sep-07													
17-Sep-07	9.8		14	7.8	0.1								
18-Sep-07	22.7		18	7.8	0.1								
19-Sep-07	12.0		12	7.7	0.1								
20-Sep-07	18.9		4	7.6	0.1	2.4	0.5	0.3					
21-Sep-07	16.4		2	8.1	0.5								
22-Sep-07													
23-Sep-07													
24-Sep-07													
25-Sep-07	24.6		8	7.3	0.6								
26-Sep-07	15.4		8	7.3	0.1								
27-Sep-07	68.7		2	7.4	0.9	2.4	1.2	0.5					
28-Sep-07	22	4.0	40	7.2	0.1	<2			<10	1092	80		
29-Sep-07													
30-Sep-07													
Average	20.795	4	10.842	7.5863	0.3118	1.8	0.8125	0.54	10	587	80.0687	95.3333	20.33333

INFLUENT ANALYSIS																					
Date	Q as % Design Flow	PE	COD light	BOD light	COD BOD	SS light	TN light	TP light	COD mg/l	BOD mg/l	SS mg/l	pH	NH3 mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Total Coliform /100ml	Fecal Coliform /100ml		
01-Oct-07	5721	74	1836		321	234	7.6	23.1													
02-Oct-07	5604	71	1315		236.0	162.0	7.6	22.6													
03-Oct-07	5827	75	1527		262	126	7.6	20.6													
04-Oct-07	5623	72	1633		1246	121	31	326													
05-Oct-07	5161	66	13590.6	1424	815	2	898	165	33	276.0	158	174.0	7.6	31.5	32	6.34	12	1,100,000	1,100,000		
06-Oct-07	5366	69																			
07-Oct-07	5009	64																			
08-Oct-07	5676	73	2724		460.0	222.0	7.51	28													
09-Oct-07	5831	75	1590		271.0	158.0	7.58	23.8													
10-Oct-07	5839	75	1127		193.0	132.0	7.6	25.4													
11-Oct-07	5258	68	1567		1073	132	31	296.0													
12-Oct-07	6594	85	4396.0	1048	264	4	239	112	150.0	40	112.0	7.35	12.4	17						460,000	
13-Oct-07	4923	63																			24,000,000
14-Oct-07	5693	72																			
15-Oct-07	5666	72	1770		318.0	182.0	7.4	23													
16-Oct-07	5695	73	2648		265.0	300.0	7.4	14.3													
17-Oct-07	4907	63	1261		735	150.0	7.4	27.3													
18-Oct-07	4417	57	1197		742	121	276.0	168.0	7.8	38.5	27.3										
19-Oct-07	5081	65	9145.8	1545	549	3	722	112	304.0	106.0	142.0	7.15	24.6	22							46,000,000
20-Oct-07	4355	56																			
21-Oct-07	4416	57																			
22-Oct-07	4695	60	2075		1127	442.0	240.0	7.4	25.9												
23-Oct-07	4553	59	1011		474	222.0	104.0	7.36	15												
24-Oct-07	4478	58	837		699	187.0	156.0	7.4	14												
25-Oct-07	5161	66	1187		516	76	21	230.0	100.0	7.5	18.5	14.8	4.1	2.0							
26-Oct-07	5135	66	4792.7	1356	288	5	791	87	264.0	66	154.0	7.47	22.5	17							11,000,000
27-Oct-07	5515	71																			
28-Oct-07	5374	82																			
29-Oct-07	4643	60																			
30-Oct-07	5201	67	2309		2060	444.0	396.0	7.39	19.8												
31-Oct-07	4976	64	1682		656	172.0	7.34	22													
Average	5261	67.7	7881.3	1684.6	479	3.31	969	116	25.9	265.5	90.5	162.3	7.4823	22.46	22.09	6.46	2.68	13	27000000	2063333	

EFFLUENT ANALYSIS													
Date	COD mg/l	BOD mg/l	SS mg/l	pH	NH3-N mg/l	TN mg/l	TP mg/l	OP mg/l	OFG mg/l	Salinity mg Cl/l	Tmax %	Total Coliform /100ml	Fecal Coliform /100ml
01-Oct-07	5.9		28	7.4	0.4						82		
02-Oct-07	22.1		28	7.4	0.7						82		
03-Oct-07	8.8		28	7.4	0.1						80		
04-Oct-07	20.4		14	7.4	0.2	2.1	0.49	1.20			81		
05-Oct-07	30.6	3	12	7.4	0.1	<2	0.45	0.34	<10	329	80	930	40
06-Oct-07											80		
07-Oct-07											75		
08-Oct-07	0.1		16	7.4	2.5						81		
09-Oct-07	6.0		18	7.4	0.1						80		
10-Oct-07	21.9		18	7.4	0.1						81		
11-Oct-07	15.8		16	7.4	0.1	2.5	0.4	0.3			80		
12-Oct-07	24.4	7	28	7.3	0.1	<2			<10	624	81	1100	460
13-Oct-07											79		
14-Oct-07											82		
15-Oct-07	5.3		34	7.2	0.1						81		
16-Oct-07	38.3		16	7.3	0.1						81		
17-Oct-07	14.8		10	7.3	0.3						81		
18-Oct-07	4.8		14	7.3	0.1	2.6		0.4			80		
19-Oct-07	3.8	<2	6	7.6	0.2	<2			<10	255	80	23	23
20-Oct-07											18		
21-Oct-07											79		
22-Oct-07	7.2		6	7.5	0.3						75		
23-Oct-07	23.0		20	7.3	0.1						81		
24-Oct-07	21.4		4	7.3	0.0						81		
25-Oct-07	16.5		2	7.4	0.1	2.0	0.3	0.2			80		
26-Oct-07	31.2	<2	30	7.4	0.4	<2			<10	543	80	150	93
27-Oct-07											82		
28-Oct-07											81		
29-Oct-07											76		
30-Oct-07	32.1		28	7.2	0.10						78		
31-Oct-07	30.8		8	7.3	0.40						77		
Average	17.6045	6	17.465	7.349	0.3	2.3	0.42	0.50				650.75	154

WWD Application Form

INFLUENT ANALYSIS																				
Date	Q, m3/d	Q as % Design Flow	PE	COO, lg/d	BOD, lg/d	COO, BOD	SS, lg/d	TN, lg/d	TP, lg/d	COO, mg/l	BOD, mg/l	SS, mg/l	pH	NH3, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Total Coliform /100ml	Fecal Coliform /100ml
01-Nov-07	4682	60	6280	936	376	1110	524	76	15	200	112	7.59	18.7	16.2	3.25	2.1			46,000,000	46,000,000
02-Nov-07	4525	59	6280	783	376		480	95	12	173	83	106.0	7.44	16.6	21	2.56				
03-Nov-07	4307	55																		
04-Nov-07	4306	55																		
05-Nov-07	4403	57		1110			203			262		46.0	7.4	24.7						
06-Nov-07	4196	53					305			305		134.0	7.4	22.3						
07-Nov-07	4874	63					216			216		150.0	7.45	21.9						
08-Nov-07	4916	63		1342			826	25	20	273		166.0	7.49	30	5	4	3			
09-Nov-07	5161	66	12903	1595	774		805	128		309	150	156.0	7.49	28.9	25					
10-Nov-07	5215	67																		
11-Nov-07	4161	54																		
12-Nov-07	4792	62		1188			460			248		96.0	7.46	22.2						
13-Nov-07	5038	65					366			366		188.0	7.41	28.3						
14-Nov-07	4587	59					342			342		146.0	7.4	28.3						
15-Nov-07	4400	57		1417			642			322		146.0	7.4	27	13	4	3			
16-Nov-07	4931	63	15040	1815	902		798	138		368	183	154.0	7.5	32.8	28					
17-Nov-07	4234	54																		
18-Nov-07	4953	64																		
19-Nov-07	5836	75		1698			525					90.0	7.49	29.5						
20-Nov-07	5051	65								361		174.0	7.42	29.7						
21-Nov-07	4303	55								360		166.0	7.5	26.2						
22-Nov-07	4119	53		1368			684			332		166.0	7.4	24.8						
23-Nov-07	5001	64	8335	1680	500		780	130		336	100	152.0	7.39	23	26					
24-Nov-07	4899	63																		
25-Nov-07	885	11																		
26-Nov-07	6965	90		2285			933			328		134.0	7.38	26.8						
27-Nov-07	4620	59					338			338		164.0	7.35	20.1						
28-Nov-07	5074	65					441			441		154.0	7.4	23.3						
29-Nov-07	4450	57					329			329		226.0	7.39	21.4						
30-Nov-07	5104	65																		
AVERAGE	4665	60	10634	1435	638	2	633	99	4	3	16	145	7	25	19	4	3	16	21740000	12000000

EFFLUENT ANALYSIS													
Date	COO, mg/l	BOD, mg/l	SS, mg/l	pH	NH3-N, mg/l	TN, mg/l	TP, mg/l	OP, mg/l	OFG, mg/l	Salinity, mg Cl/l	Tmsm, %	Total Coliform /100ml	Fecal Coliform /100ml
01-Nov-07	31.2		6	7.2	0.1	1.9	0.24	0.14			77		
02-Nov-07	8.8	2	14	7.1	0.1	2.0	0.20	0.10		350	78	240	240
03-Nov-07													
04-Nov-07													
05-Nov-07	10.1		14	7.0	0.9						77		
06-Nov-07	7.30		14	7.4	0.1						79		
07-Nov-07	12.40		4	7.4	0.1						78		
08-Nov-07	13.5		6	7.4	0.7	0.2	0.21	0.16			79		
09-Nov-07	30.9	3	8	7.3	0.1	7.0			<10	455	79	2400	2400
10-Nov-07											77		
11-Nov-07											77		
12-Nov-07	14.3		8	7.3	0.5						79		
13-Nov-07	24.70		20	7.1	0.1						79		
14-Nov-07	16.80		22	7.2	0.1	0.7	0.4	0.2			80		
15-Nov-07	39.5		22	7.1	0.4						79		
16-Nov-07	19.8	2	10	7.3	1.3	2.0			10	373	78	2400	2400
17-Nov-07											78		
18-Nov-07											79		
19-Nov-07	10.5		4	7.3	0.1						77		
20-Nov-07	36.6		4	7.2	1.2						75		
21-Nov-07	26.2		6	7.3	0.6						76		
22-Nov-07	20.3		6	7.3	1.0	0.6	0.4				75		
23-Nov-07	25.1	4	16	7.2	3.3	2.0			10	465	75	150	150
24-Nov-07											75		
25-Nov-07											76		
26-Nov-07	34.3		22	7.3	4.0						76		
27-Nov-07	16.6		2	7.0	0.2						77		
28-Nov-07	38.9		18	7.4	0.4	0.3	0.2				74		
29-Nov-07	49.7		24	7.1	0.4						77		
30-Nov-07											76		
Average	23.2	2.8	11.9	7.2	0.7	2.3	0.3	0.2	10.0	410.8	77.3	1046.6	1038.8

MIDDLETON SEWAGE TREATMENT PLANT

Influent		Sample	pH	BOD	COD	SS	TP	TN	NH ₃	SO ₄	O-PO4-P	Cond	Flow	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Barium	Boron	Nitrate as N	
Sample Date	04/07/2007	Inlet																					
	05/09/2007	Inlet	7.4	128	365	218	4.88	23.6	16	52.9		676		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.069	0.025		
	24/10/2007	Inlet						20	16.5	48	1.82			<0.02	<0.02	<0.02	<0.02	<0.02	0.029	0.025	0.059	4.03	

Parameter	Method	Units	Source
Arsenic (OES)	ICP-OES	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Atrazine	HPLC	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Cyanide	Colorimetry	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Dichloromethane	GC-MS 1	<1	GR1021 Middleton WWTP Influent 24/10/07
EPH	GC-FID	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Mercury (OES)	ICP-OES	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Phenols (Total)	GC-MS 2	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Polyaromatic Hydrocarbons	HPLC	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Selenium (OES)	ICP-OES	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Simazine	HPLC	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Toluene	GC-MS 1	<0.01	GR1021 Middleton WWTP Influent 24/10/07
Total Organic Carbon	TOC analyser (NPOC)	mg/L	GR1021 Middleton WWTP Influent 24/10/07
TPH C10-C36	GC-FID	ug/L	GR1021 Middleton WWTP Influent 24/10/07
Xylene	GC-MS 1	<0.01	GR1021 Middleton WWTP Influent 24/10/07

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MIDDLETON SEWAGE TREATMENT PLANT

Baillick Storm Tank		MIDDLETON SEWAGE TREATMENT PLANT																			
Sample Date	Sample	pH	BOD mg/L	COD mg/L	SS mg/L	TP mg/L	TN mg/L	NH ₃ mg/L	SO ₄	O-PO ₄ -P	Cond 20c	Flow	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Barium	Boron	Nitrate as N
07/03/2007	Storm	7.2	30	51	28	0.81	7.9	8.9			882										
04/04/2007	Storm	7.2	77	238	93	2.98	21.3														
24/10/2007	Storm	7.7	1	26	3	<0.2	5	1.3	480.6	0.11	882		<0.02	0.073	<0.02	<0.02	<0.02	0.582	<0.02	0.622	0.52

Parameter	Method	Units	Source
Arsenic (OES)	ICP-OES	B	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Atrazine	HPLC	<0.01	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Cyanide	Colorimetry	<5	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Dichloromethane	GC-MS 1	<1	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
EPH	GC-FID	<1	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Mercury (OES)	ICP-OES	1.9	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Phenols (Total)	GC-MS 2	<0.10	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Polyaromatic Hydrocarbons	HPLC	<0.01	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Selenium (OES)	ICP-OES	15	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Simazine	HPLC	<0.01	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Toluene	GC-MS 1	<0.01	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Total Organic Carbon	TOC analyser (BDOC)	2.18	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
TPH C10-C36	GC-FID	<1	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Tributyltin*	GC-MS 1	NS	GR1023 Middleton Scheme Storm Water Bailick 24/10/07
Xylene	GC-MS 1	<0.01	GR1023 Middleton Scheme Storm Water Bailick 24/10/07

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MIDDLETON SEWAGE TREATMENT PLANT

Effluent		Sample Date	Sample	pH	BOD mg/L	COD mg/L	SS mg/L	TP mg/L	TN mg/L	NH ₃ mg/L	SO ₄	O-PO ₄ -P	Cond 20Cc	Flow	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Barium	Boron	Nitrate as N	
	Effluent	17/01/2007	Effluent	7.5	3.2	<21	<2.5	0.37	4.6					7546										
	Effluent	07/02/2007	Effluent	7.4	2.4	<21	<2.5	0.63	7.2					6844										
	Effluent	07/03/2007	Effluent	7.5	<1	<21	<2.5	0.34	0.7					7042										
	Effluent	04/04/2007	Effluent	7.5	1.8	<21	<2.5	<0.2	3.1					6208										
	Effluent	30/05/2007	Effluent	7.8	1.3	21	<2.5	<0.2	<2					5141										
	Effluent	06/06/2007	Effluent	7.9	1.9	<21	<2.5	0.23	3					5024										
	Effluent	04/07/2007	Effluent	7.7	1.3	<21	<2.5	0.42	<1	<0.1														
	Effluent	08/08/2007	Effluent	7.7	2.2	<21	7	0.47	7.2	<0.1	54.8	0.2												
	Effluent	05/09/2007	Effluent	7.6	<1	<21	<2.5	0.26	3.3	0.1	80.3	0.22												
	Effluent	24/10/2007	Effluent	7.3	1.6	<21	<2.5	0.53	2.6	0.1	38	0.19	595											0.14

Parameter	Method	Units	Source
Arsenic (OES)	ICP-OES	g	GR1020 Middleton WWTP Effluent 24/10/07
Atrazine	HPLC	ug/L	GR1020 Middleton WWTP Effluent 24/10/07
Cyanide	Colorimetry	<5	GR1020 Middleton WWTP Effluent 24/10/07
Dichloromethane	GC-MS 1	<1	GR1020 Middleton WWTP Effluent 24/10/07
EPH	GC-FID	5.5	GR1020 Middleton WWTP Effluent 24/10/07
Mercury (OES)	ICP-OES	<0.2	GR1020 Middleton WWTP Effluent 24/10/07
Phenols (Total)	GC-MS 2	<0.10	GR1020 Middleton WWTP Effluent 24/10/07
Polyaromatic Hydrocarbons	HPLC	<0.01	GR1020 Middleton WWTP Effluent 24/10/07
Selenium (OES)	ICP-OES	<0.01	GR1020 Middleton WWTP Effluent 24/10/07
Simazine	HPLC	<0.01	GR1020 Middleton WWTP Effluent 24/10/07
Toluene	GC-MS 1	<0.01	GR1020 Middleton WWTP Effluent 24/10/07
Total Organic Carbon	TOC analyser (NPOC)	4.06	GR1020 Middleton WWTP Effluent 24/10/07
TPH C10-C36	GC-FID	5.5	GR1020 Middleton WWTP Effluent 24/10/07
Tributyltin*	GC-MS 1	<0.02	GR1020 Middleton WWTP Effluent 24/10/07
Xylene	GC-MS 1	<1	GR1020 Middleton WWTP Effluent 24/10/07

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MIDDLETON SEWAGE TREATMENT PLANT

Outfall at Rathcoursey

Sample Date	Sample	pH	BOD mg/L	COD mg/L	SS mg/L	TP mg/L	TN mg/L	NH ₃ mg/L	SO ₄	O-PO ₄ -P	Cond 20°C	Flow	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Barium	Boron	Nitrate as N
17/01/2007	Outfall	7.4	<1	<21	<2.5	0.28	3.6					17698									
07/03/2007	Outfall	7.5	<1	<21	3	0.33	1.6					13053									
04/04/2007	Outfall	7.5	2.8	30	6	0.49	2.6	<0.1				11536									
30/05/2007	Outfall	7.6	1.8	<21	30	0.24	2.87					10725									
09/06/2007	Outfall	7.5	1.5	<21	<2.5	0.21	4.66	<0.1				9994									
04/07/2007	Outfall	7.4	5.8	43	6	0.37	<1					11766	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
08/08/2007	Outfall	7.5	2.4	<21	10	0.34	11.2	<0.1	108.9	0.29	418	9626	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
24/10/2007	Outfall	7.6	1.6	<21	7	0.67	13	<0.1	194	0.29	418	9626	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			0.262

Parameter	Method	Units	Source
Arsenic (OES)	ICP-OES	ug/L	GR1022 Middleton Outfall Rathcoursey 24/10/07
Atrazine	HPLC	ug/L	GR1022 Middleton Outfall Rathcoursey 24/10/07
Cyanide	Colorimetry	ug/L	GR1022 Middleton Outfall Rathcoursey 24/10/07
Dichloromethane	GC-MS 1	ug/L	GR1022 Middleton Outfall Rathcoursey 24/10/07
EPH	GC-FID	2	GR1022 Middleton Outfall Rathcoursey 24/10/07
Mercury (OES)	ICP-OES	ug/L	GR1022 Middleton Outfall Rathcoursey 24/10/07
Phenols (Total)	GC-MS 2	<0.2	GR1022 Middleton Outfall Rathcoursey 24/10/07
Polyaromatic Hydrocarbons	HPLC	<0.10	GR1022 Middleton Outfall Rathcoursey 24/10/07
Selenium (OES)	ICP-OES	ug/L	GR1022 Middleton Outfall Rathcoursey 24/10/07
Simazine	HPLC	<0.01	GR1022 Middleton Outfall Rathcoursey 24/10/07
Toluene	GC-MS 1	<0.01	GR1022 Middleton Outfall Rathcoursey 24/10/07
Total Organic Carbon	TOC analyser (NPOC)	4.42	GR1022 Middleton Outfall Rathcoursey 24/10/07
TPH C10-C36	GC-FID	2	GR1022 Middleton Outfall Rathcoursey 24/10/07
Tributyltin*	GC-MS 1	ug/L as Sn	GR1022 Middleton Outfall Rathcoursey 24/10/07
Xylene	GC-MS 1	ug/L as Sn	GR1022 Middleton Outfall Rathcoursey 24/10/07

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WWDL Application Form

DATE	UPSTREAM OF BAILICK 1 OVERFLOW				DOWNSTREAM OF BAILICK1 / UPSTREAM OF BAILICK2 OVERFLOWS				DOWNSTREAM OF BAILICK2 OVERFLOW			
	Sample A		Sample B		Sample A		Sample B		Sample A		Sample B	
	Total	Faecal	Total	Faecal	Total	Faecal	Total	Faecal	Total	Faecal	Total	Faecal
30/03/07	6,000	4,800			5,800	4,600			2,800	2,800		
02/04/07	410	250			3,700	3,000			140,000	84,000		
13/04/07	>200,000	>120,000			200,000	40,000			>200,000	>40,000		
19/04/07	6,100	4,900			30,000	6,000			34,000	<10,000		
25/04/07	16,000	6,400	12,000	7,200	17,000	10,000			41,000	25,000		
01/05/07	21,000	17,000	26,000	16,000	19,000	11,000			23,000	14,000		
09/05/07	4,500	3,600	4,000	3,200	2,600	2,100			3,800	3,800		
14/05/07	19,000	6,300	5,100	3,400	15,000	11,000						
24/05/07	4,700	4,700	4,100	4,100	200	200	210	200	380	380	260	170
29/05/07	24,000	26,000	38,000	<10,000	2,200	1,100	1,900	1,900				
05/06/07	12,000	9,000	15,000	3,000	48,000	<1,000	38,000	<1,000	1,300	260		
15/06/07	>200,000	>120,000	42,000	17,000	140,000	56,000			180,000	72,000		
21/06/07	36,000	22,000	42,000	17,000	70,000	<1,000	98,000	59,000	21,000	17,000	18,000	3,600
27/06/07	46,000	9,200			48,000	9,600			90,000	18,000		
02/07/07	4,800	2,400			19,000	<1,000	19,000	<1,000	6,000	3,000		
13/07/07	49,000	39,000	47,000	19,000	34,000	17,000	30,000	6,000	9,000	9,000	4,000	<10
19/07/07	45,000	27,000	26,000	13,000	60,000	14,000	4,100	2,500	19,000	<100	6,700	5,400
25/07/07	16,000	11,000	26,000	3,300	34,000	<1,000	70,000	<1,000	150,000	30,000	90,000	<1,000
31/07/07	4,200	4,200	3,300	3,300	54,000	<1,000	47,000	9,400	2,600	1,700	4,100	4,100
10/08/07	9,600	9,600	33,000	13,000	7,000	2,300			5,400	<1,000	3,800	<1,000
13/08/07	5,000	3,000	1,800	<100	31,000	700			4,200	<100	4,100	<100
24/08/07	11,000	4,400	30,000	24,000	44,000	18,000	42,000	25,000	1,900	760	2,700	1,800
30/08/07	49,000	20,000			3,500	3,500	3,200	3,200	1,400	1,100	1,100	660
05/09/07	3,000	<10			29,000	<10	22,000	17,000	3,700	2,200	2,200	1,300
10/09/07	36,000	36,000			7,800	<100			8,500	4,300	7,500	<10
18/09/07	13,000	4,000	27,000	5,400	3,500	<10			220	55	120	<10
27/09/07	11,000	4,400	13,000	10,000	45,000	<1,000	26,000	<1,000	9,600	3,800	10,000	8,000
05/10/07	16,000	<1,000	11,000	<1,000	18,000	<1,000	7,600	3,800	3,800	1,500	3,600	720
12/10/07	7,200	2,900	5,400	1,300	4,200	2,500			9,600	9,600	4,700	1,900
19/10/07	22,000	8,800	21,000	8,400	20,000	6,700			14,000	3,500	11,000	8,800

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