

Issue Code PMS CK11
 Date 07/11/2011
 Originator P. O'Keeffe
 Authorised by E. Brennan

**Kilbrittain WWTP
 Monthly Status Report
 October 2011**



EXECUTIVE SUMMARY

Flows		
Parameter	Average	Design
	M ³ /d	M ³ /d
Flow	463	144
PE (Flow)	2316	800
PE (BOD)	4302	800

Process Calculations		
Average MLSS	6264	Mg/l
DO	5.8	Mg/l
Plant Volume	116	M3
Total Biomass	727	kg
Daily BOD load	258.1	kg
FM Ratio	0.355	


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Results Summary

	Inlet					Effluent			
	Max	Min	Ave	Ave	Design Spec	Max	Min	Ave	STD
	Mg/l	Mg/l	Mg/l	Kg/day	Kg/day	Mg/l	Mg/l	Mg/l	Mg/l
COD	1880	724	1224	567	NA	29	19	22	125
BOD	844	314	557	258	48	11	6	8	25
SS	1773	140	713	330	56	21	5	13	30
TP	139.0	139.0	139.0	64	NA	1.80	1.80	1.80	2

Results highlighted in red if outside Design Spec or Final Effluent Standard

Appendix A

Issue Code	PMS CK11	Kilbrittain WWTP Monthly Status Report October 2011	
Date	07/11/2011		
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Flow Readings

Plant: Kilbrittain WWTP

Date	Total Effluent Flow	Effluent Flow (Final effluent chamber)
	m3	m3/d
29-Sep	186891.9	112.77
03-Oct	187399.9	127.00
05-Oct	187421.9	11.00
11-Oct	190168.3	457.73
13-Oct	191856.6	844.15
17-Oct	193831.6	493.75
19-Oct	195117.8	643.10
21-Oct	199877.5	2379.85
25-Oct	200233.7	89.05
28-Oct	200325.8	80.70

200 litres/person/day	463
Population Equivalent in terms of flow	2316
Population Equivalent In terms of BOD	4302


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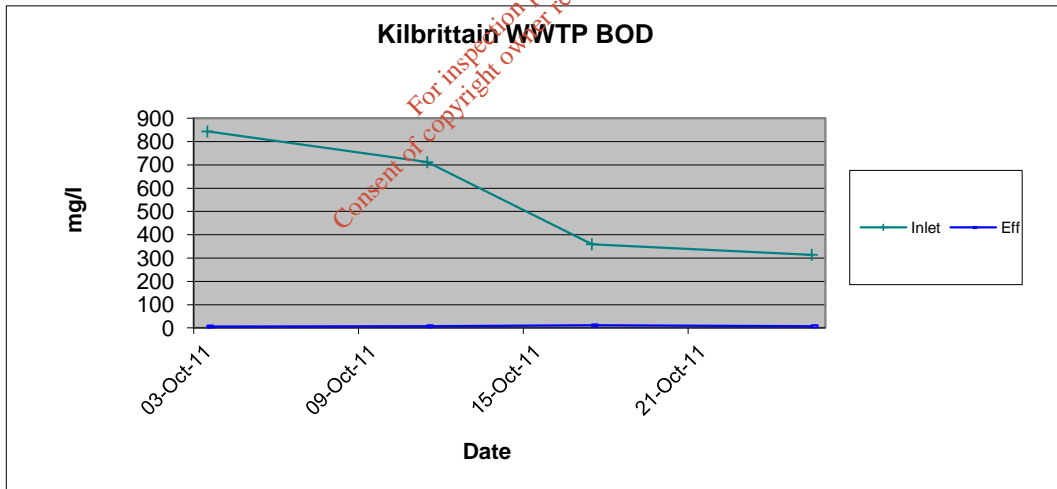
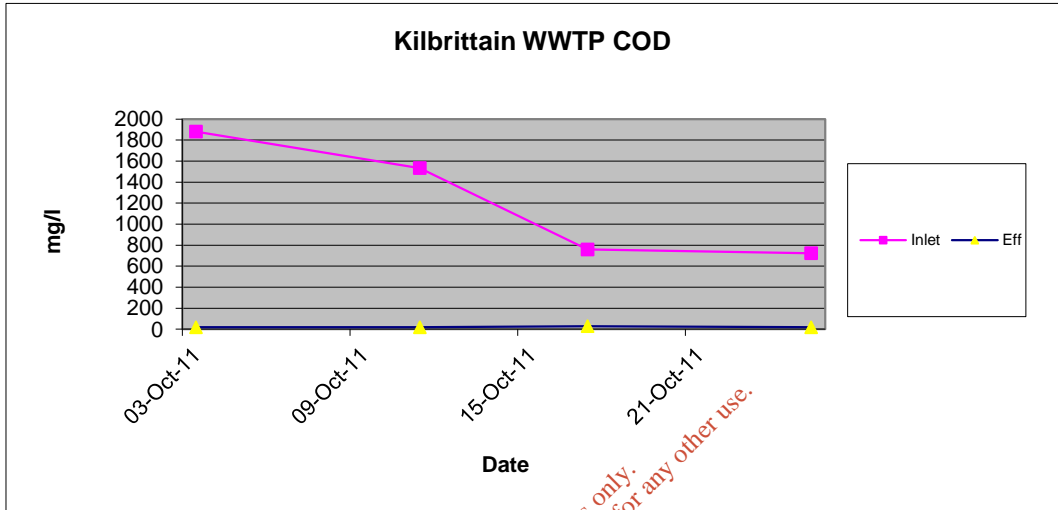
Appendix B

Issue Code	PMS CK11	Kilbriain WWTP Monthly Status Report October 2011	
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Kilbriain WWTP				COD (mg/l)		BOD ₅ (mg/l)		SS (mg/l)		TP(mg/l)		pH			AT			
Date	PE (Flow)	PE (BOD)	F:M	Inlet	Eff	Inlet	Eff	Inlet	Eff	Inlet	Eff	Inlet	AT	Eff	DO	MLSS (mg/l)	SV ₃₀ (ml/l)	SVI (ml/g)
Standards					125		25		30		2							
03/08/2011	1982	1493	0.478	658	35	226	15	57	7			6.68	6.90	6.21	2.41	1616	400	248
11/08/2011	1982	641	0.105	257	18	97	7	30	20			6.49	6.86	6.07	5.71	3158	500	158
17/08/2011	1982	727	0.113	284	24	110	9	178	25	3.9	1.8	6.72	6.01	6.05	4.33	3340	500	150
23/08/2011	1982	317	0.051	113	33	48	15	39	10			6.63	6.06	6.80	4.44	3247	540	166
30/08/2011	1982	859	0.140	362	26	130	9	24	16	5.8	1.80	6.64	5.94	6.41	7.32	3170	450	142
Average	1982	807	0.177	335	27	122	11	66	16	4.9	1.8	6.63	6.35	6.31	4.84	2906	478	173
Max	1982	1493	0.478	658	35	226	15	178	25	5.8	1.8	6.72	6.90	6.80	7.32	3340	540	248
Min	1982	317	0.051	113	18	48	7	24		3.9	1.8	6.49	5.94	6.05	2.41	1616	400	142
% Compliance					100		100		100		100							
08/09/2011	229	99	0.017	398	46	129	14	198	28	4.7	1.8	7.02	6.84	6.75	3.38	3048	400	131
13/09/2011	229	60	0.010	165	41	78	13	72	17			6.28	6.38	6.59	3.98	3208	420	131
20/09/2011	229	141	0.059	385	39	184	13	30	4			6.90	6.38	5.90	4.57	1224	390	319
26/09/2011	229	215	0.017	626	39	281	14	330	26			7.24	5.70	6.06	3.01	6390	400	63
Average	229	129	0.026	394	41	168	14	158	19	4.7	1.8	6.86	6.33	6.33	3.74	3468	403	161
Max	229	215	0.059	626	46	281	14	330	28	4.7	1.8	7.24	6.84	6.75	4.57	6390	420	319
Min	229	60	0.010	165	39	78	13	30	4	4.7	1.8	6.28	5.70	5.90	3.01	1224	390	63
% Compliance					100		100		100		100							
03/10/2011	2316	6516	0.618	1880	19	844	6	1773	12	139	1.8	6.10	5.08	4.64	4.46	5455	400	73
11/10/2011	2316	5497	0.462	1533	20	712	7	720	21			7.08	5.66	5.06	4.12	6158	400	65
17/10/2011	2316	2772	0.218	759	29	359	11	140	15			7.15	3.82	3.61	6.72	6580	500	76
25/10/2011	2316	2424	0.183	724	19	314	7	217	5			7.33	3.93	3.44	7.99	6864	510	74
Average	2316	4302	0.370	1224	22	557	8	713	13	139.0	1.8	6.92	4.62	4.19	5.82	6264	453	72
Max	2316	6516	0.618	1880	29	844	11	1773	21	139.0	1.8	7.33	5.66	5.06	7.99	6864	510	76
Min	2316	2424	0.183	724	19	314	6	140	5	139.0	1.8	6.10	3.82	3.44	4.12	5455	400	65
% Compliance					100		100		100		100							

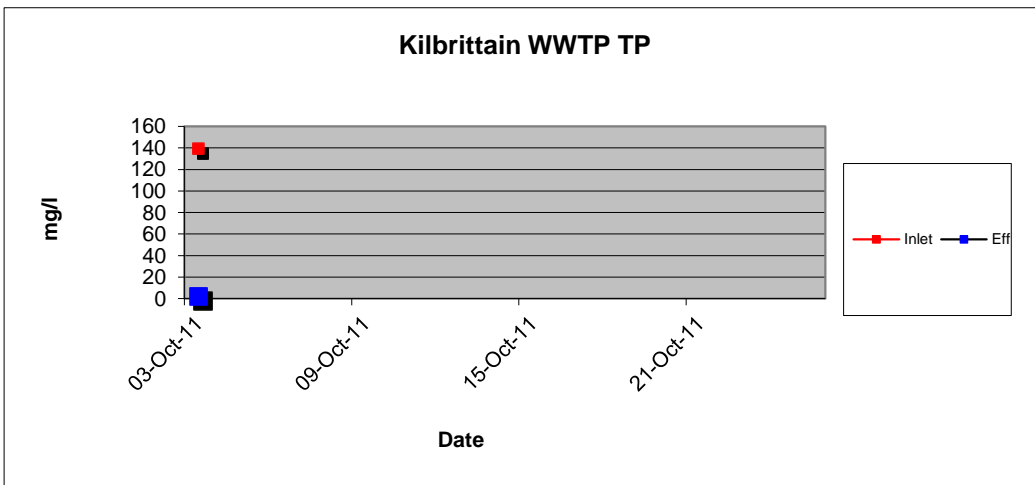
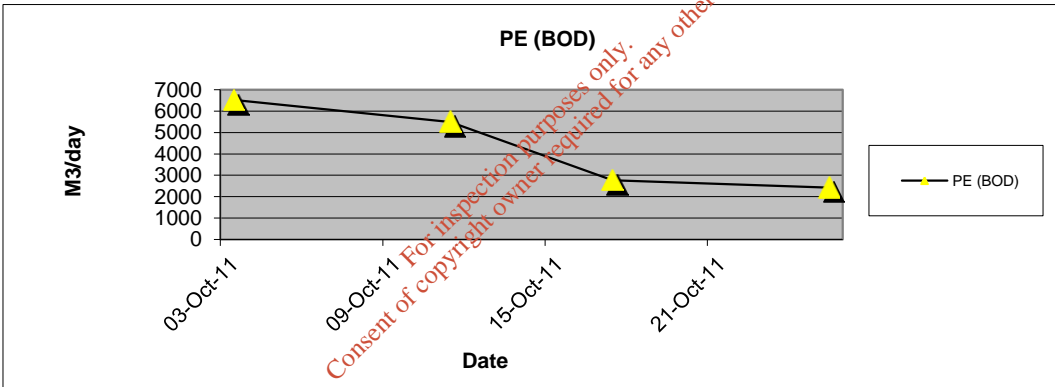
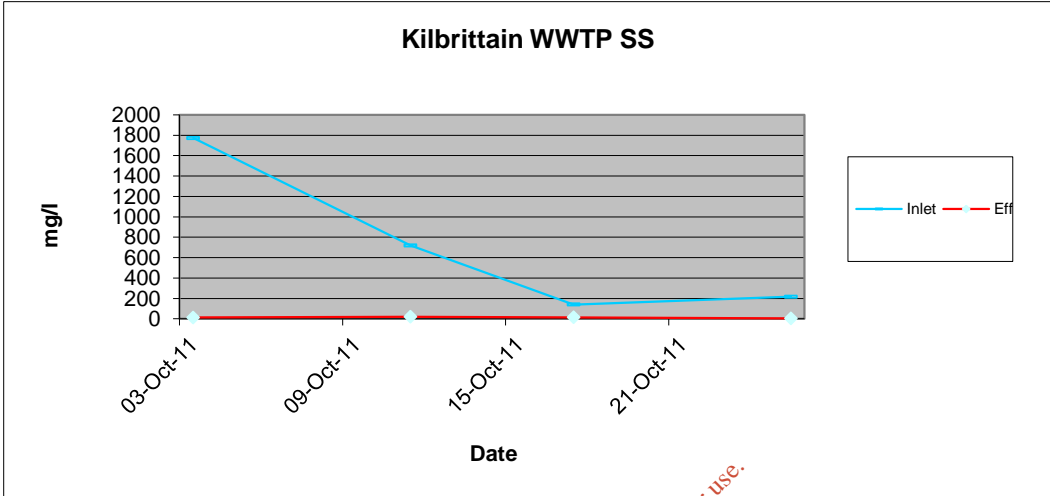
Appendix C

Issue Code	PMS CK11	Kilbriain WWTP Monthly Status Report October 2011	
Date	07/11/2011		
Originator	P. O'Keeffe		
Authorised by	E. Brennan		





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Appendix D

Issue Code	PMS CK11	Kilbrittain WWTP Monthly Status Report October 2011								
Date	07/11/2011									
Originator	P. O'Keeffe									
Authorised by	E. Brennan									
List of Equipment	29/09/2011 10:17			03/10/2011 15:00			05/10/2011 16:00			
	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per	
			day		Run	day		Run	day	
Forward Feed Pump 1		1145.32			1145.35	0.01		1145.40	0.02	
Forward Feed Pump 2		1210.50			1211.43	0.22		1212.26	0.41	
Inlet Screen		2014.48			2014.73	0.06		2014.86	0.06	
RAS/WAS 1		22879.04			22879.04	0.00		22879.04	0.00	
RAS/WAS 2		18250.24			18350.94	24.00		18399.83	23.95	
Clarifier		40706.35			40807.03	23.99		40855.93	23.95	
Blower 1		22155.17			22255.88	24.00		22304.77	23.95	
Blower 2		20164.77			20164.77	0.00		20164.77	0.00	
Forward Feed Pump 3		23464.61			23565.27	23.99		23614.19	23.96	
Forward Feed Pump 4		27071.53			27172.19	23.99		27221.11	23.96	
ESB Day (Kwh)		11224.40			11522.00	70.92		11665.70	70.38	
ESB Night (Kwh)		66304.90			66471.50	39.70		66553.50	40.16	
List of Equipment	11/10/2011 14:30			13/10/2011 15:00			17/10/2011 13:45			
	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per	
		Run	day		Run	day		Run	day	
Forward Feed Pump 1		1147.63	0.38		1148.31	0.34		1149.56	0.32	
Forward Feed Pump 2		1212.27	0.00		1212.27	0.00		1212.27	0.00	
Inlet Screen		2015.04	0.03		2015.08	0.02		2015.20	0.03	
RAS/WAS 1		22879.04	0.00		22879.04	0.00		22879.04	0.00	
RAS/WAS 2		18542.35	24.00		18590.68	23.92		18684.80	23.84	
Clarifier		40998.44	24.00		41046.78	23.92		41141.50	23.99	
Blower 1		22447.28	24.00		22495.61	23.92		22590.33	23.99	
Blower 2		20164.77	0.00		20164.77	0.00		20164.77	0.00	
Forward Feed Pump 3		23756.69	24.00		23804.92	23.87		23898.94	23.82	
Forward Feed Pump 4		27363.61	24.00		27411.84	23.87		27505.93	23.83	
ESB Day (Kwh)		12076.10	69.12		12216.10	69.28		12486.90	68.59	
ESB Night (Kwh)		66801.70	41.80		66884.40	40.92		67049.80	41.90	


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List of Equipment	19/10/2011 16:45			21/10/2011 13:30			25/10/2011 14:57		
	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per
		Run	day			day			day
Forward Feed Pump 1		1150.49	0.44		1151.18	0.37		1154.74	0.88
Forward Feed Pump 2		1212.28	0.00		1212.29	0.01		1212.29	0.00
Inlet Screen		2015.29	0.04		2015.38	0.05		2015.56	0.04
RAS/WAS 1		22879.04	0.00		22879.04	0.00		22879.04	0.00
RAS/WAS 2		18735.83	24.01		18780.62	24.02		18878.09	24.00
Clarifier		41192.53	24.01		41237.33	24.03		41334.80	24.00
Blower 1		22641.37	24.02		22686.17	24.03		22783.63	24.00
Blower 2		20164.77	0.00		20164.77	0.00		20164.77	0.00
Forward Feed Pump 3		23949.99	24.02		23991.83	22.44		24088.47	23.80
Forward Feed Pump 4		27556.98	24.02		27598.81	22.43		27695.50	23.81
ESB Day (Kwh)		12641.70	72.85		12761.40	64.20		13048.10	70.61
ESB Night (Kwh)		67133.60	39.44		67217.20	44.84		67384.00	41.08

List of Equipment	28/10/2011 12:29								
	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per	Amps	Total Hours	Ave. HR per
		Run	day			day			day
Forward Feed Pump 1		1156.05	0.45						
Forward Feed Pump 2		1212.29	0.00						
Inlet Screen		2015.63	0.02						
RAS/WAS 1		22879.04	0.00						
RAS/WAS 2		18947.62	24.00						
Clarifier		41404.32	24.00						
Blower 1		22853.15	24.00						
Blower 2		20164.77	0.00						
Forward Feed Pump 3		24157.98	23.99						
Forward Feed Pump 4		27765.02	24.00						
ESB Day (Kwh)		13249.04	69.36						
ESB Night (Kwh)		67511.09	43.87						

Appendix E							
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Date	07/11/2011						
Originator	P. O'Keefe						
Authorised by	E. Brennan						
Kilbriain WWTP Weather Record							
October 2011							
Weather Record							
Date	Rainfall	Max	Min	Grass Min	Mean	Gusts	Sunshine
	(mm)	Temp	Temp	Temp	(Knots)	>= 34 (Knots)	(hours)
01/10/2011	7.4	14.9	11.2	10.4	7.7		0.0
02/10/2011	1.0	16.5	13.5	13.4	5.9		0.0
03/10/2011	0.1	17.1	6.7	0.8	9.2		1.3
04/10/2011	1.4	14.9	5.1	-1.1	7.9		0.1
05/10/2011	4.1	17.1	8.7	6.6	14.8		0.0
06/10/2011	0.6	12.3	5.4	3.0	15.8	50	7.4
07/10/2011	0.3	13.2	7.6	5.9	10.7		5.4
08/10/2011	0.1	17.1	6.5	3.5	8.0		0.4
09/10/2011	0.0	18.1	12.5	12.2	15.8		2.2
10/10/2011	0.0	16.2	14.3	13.5	18.5	35	1.2
11/10/2011	0.5	17.0	13.0	12.5	11.3		0.5
12/10/2011	0.1	18.9	11.7	10.4	7.9		1.8
13/10/2011	1.7	15.7	10.6	8.8	5.0		1.4
14/10/2011	3.9	14.5	12.7	12.4	10.4		0.0
15/10/2011	2.1	14.2	7.7	3.9	8.0		0.0
16/10/2011	0.2	14.2	7.2	2.6	8.4		5.8
17/10/2011	3.0	12.9	5.0	2.9	14.3	43	0.1
18/10/2011	0.6	10.5	4.0	1.1	11.7		8.8
19/10/2011	0.6	10.4	4.6	1.9	8.6		6.3
20/10/2011	0.0	10.9	5.1	1.9	7.9		0.1
21/10/2011	0.0	13.3	10.2	9.3	14.5		0.8
22/10/2011	12.0	13.4	7.7	6.2	11.7	34	0.3
23/10/2011	25.6	13.7	8.7	7.6	17.6	49	0.0
24/10/2011	0.4	13.0	6.5	2.1	7.5		0.7
25/10/2011	0.3	11.4	3.6	-0.4	5.2		6.4
26/10/2011	1.9	11.5	3.4	-0.4	7.3		6.1
27/10/2011	0.3	12.1	4.8	-1.4	6.8		7.1
28/10/2011	5.0	12.7	3.3	-1.8	11.9		1.6
29/10/2011	11.1	14.6	10.9	9.7	14.8	37	3.8
30/10/2011	1.7	13.7	10.7	9.3	9.4		0.0
31/10/2011	5.7	13.6	5.1	0.8	11.1		0.0
Total	91.7						

Appendix F

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Date	07/11/2011				
Originator	P. O'Keeffe				
Authorised by	E. Brennan				
FACILITY MAINTENANCE RECORD					
A = Excellent B= Acceptable C= Unacceptable					
Completed On Site		A	B	C	
1. Lawn Maintenance					
a.	Grass cut & collected		✓		
b.	Edging tidy		✓		
2. Shrub Maintenance					
a.	Bushes pruned		✓		
b.	Trees erect & stalked where required		✓		
c.	Hedges cut		✓		
3. Hard Surfaces					
a.	All surfaces swept		✓		
b.	All surfaces free of algae and moss etc.		✓		
c.	Road surface clean and adequate		✓		
d.	All roofs free of algae, moss		✓		
4. Exterior Painting					
a.	All buildings painted & clean		✓		
b.	All gates and doors painted		✓		
5. Housekeeping					
a.	Litter removed from site	✓			
b.	Surface area around bins and skips clean		✓		
	Site free from spillages	✓			
6. Buildings					
a.	Roof in water proof condition		✓		
b.	Glazing in good order		✓		
7. Interior Painting					
a.	All rooms painted and clean		✓		
8. Welfare & Sanitation					
a.	Tiolet/washing facilities clean		✓		
b.	Canteen clean		n/a		

