



comhairle chontae na mí
meath county council

Athboy Waste Water Works



Annual Environmental Report for **EPA Waste Water Discharge Licence D0124-01**

01/01/2010 to 31/12/2010

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SECTION 1
Introduction

SECTION 1.1: INTRODUCTION

Agglomeration: Athboy Waste Water Works

Licence No: D0124-01

The new Waste Water Treatment Plant (WwTP) at Athboy was commissioned in 2010 and is now operated and maintained by EPS as part of a 20 year DBO (design build, operate) contract. The waste water treatment plant was built to serve the agglomeration of Athboy, Rathcairn and their Environs and the facility is licensed for a p.e of 5,800.

The WwTP includes screening and grit grease removal, anoxic and aeration tanks, phosphorus removal, sludge pumping station, sludge holding tank, sludge dewatering building and storm tanks. The primary discharge from the WwTP is to the Athboy River.

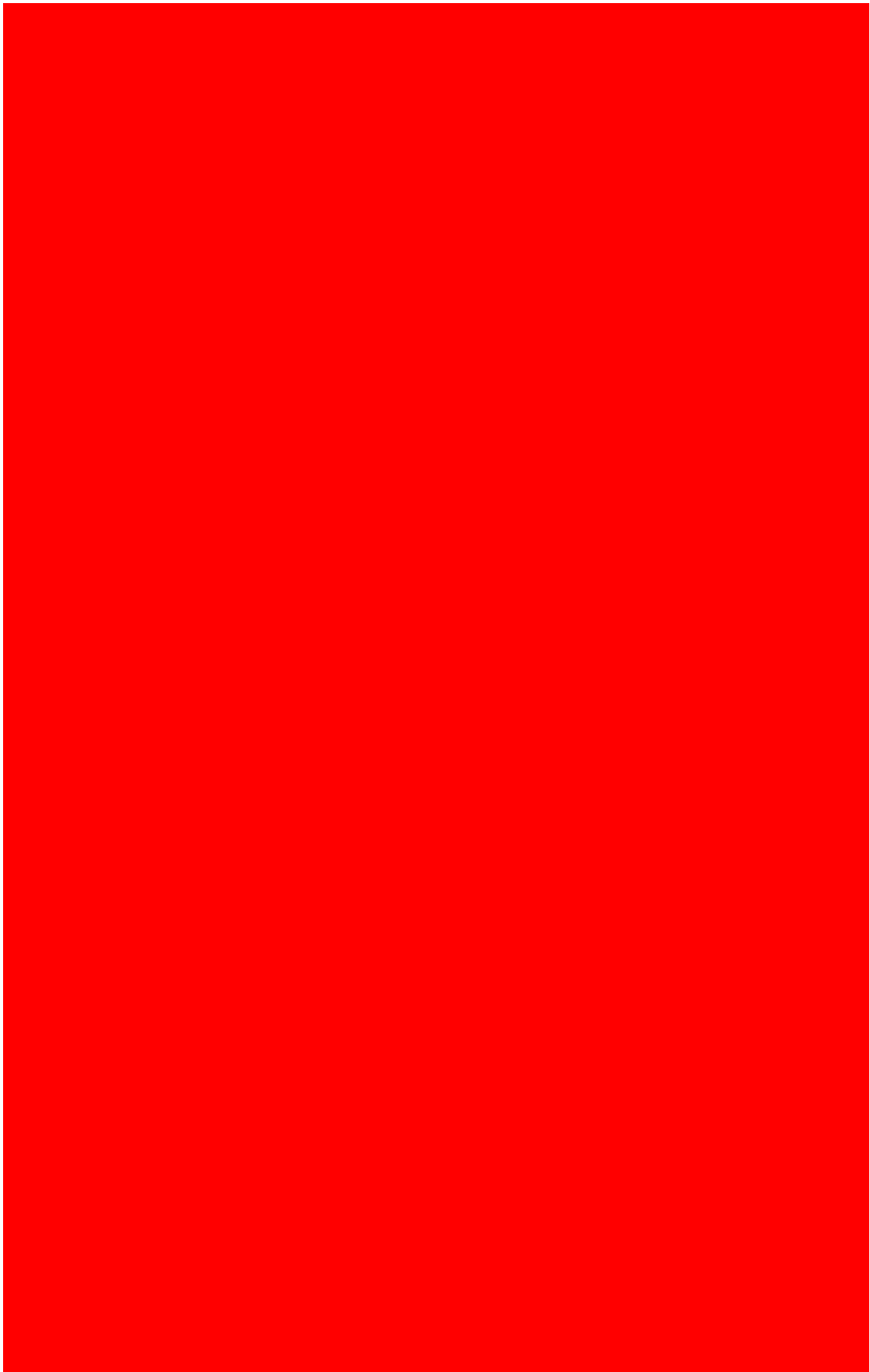
The following Annual Environmental Report (AER) has been prepared as per Condition 6.10 of Meath County Council's Discharge Licence D0124-01 and includes all information requested under schedule D of this licence.

SECTION 2

Monitoring Results

SECTION 2.1: FLOW REPORT.

The influent and effluent flows for Athboy WwTP are recorded daily and displayed in Section 2.2 of this AER.



Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows
Treatment Plant: Athboy WwTP
Date Licensed: 02/06/2010
Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
02/06/2010	371	424
03/06/2010	366	447
04/06/2010	489	523
05/06/2010	410	464
06/06/2010	446	504
07/06/2010	454	514
08/06/2010	408	509
09/06/2010	396	452
10/06/2010	489	548
11/06/2010	393	381
12/06/2010	370	476
13/06/2010	375	425
14/06/2010	447	481
15/06/2010	366	363
16/06/2010	616	629
17/06/2010	591	631
18/06/2010	651	641
19/06/2010	638	630
20/06/2010	642	625
21/06/2010	647	632
22/06/2010	624	623
23/06/2010	630	614
24/06/2010	588	591
25/06/2010	538	555
26/06/2010	523	439
27/06/2010	557	578
28/06/2010	623	576
29/06/2010	425	450
30/06/2010	428	486
01/07/2010	810	739
02/07/2010	449	419
03/07/2010	436	433

Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows

Treatment Plant: Athboy WwTP

Date Licensed: 02/06/2010

Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
04/07/2010	474	497
05/07/2010	401	296
06/07/2010	392	386
07/07/2010	436	384
08/07/2010	429	361
09/07/2010	787	616
10/07/2010	930	1,069
11/07/2010	450	515
12/07/2010	689	599
13/07/2010	592	434
14/07/2010	565	672
15/07/2010	904	909
16/07/2010	731	670
17/07/2010	599	610
18/07/2010	787	795
19/07/2010	746	771
20/07/2010	999	768
21/07/2010	1,468	1,624
22/07/2010	852	827
23/07/2010	985	961
24/07/2010	706	667
25/07/2010	702	671
26/07/2010	682	628
27/07/2010	644	621
28/07/2010	653	594
29/07/2010	620	587
30/07/2010	694	676
31/07/2010	620	589
01/08/2010	569	543
02/08/2010	535	509
03/08/2010	552	527
04/08/2010	681	648

Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows
Treatment Plant: Athboy WwTP
Date Licensed: 02/06/2010
Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
05/08/2010	613	599
06/08/2010	584	506
07/08/2010	540	568
08/08/2010	497	490
09/08/2010	511	468
10/08/2010	474	460
11/08/2010	477	438
12/08/2010	459	439
13/08/2010	487	461
14/08/2010	480	453
15/08/2010	475	444
16/08/2010	540	497
17/08/2010	480	509
18/08/2010	472	441
19/08/2010	488	462
20/08/2010	546	538
21/08/2010	454	443
22/08/2010	466	422
23/08/2010	621	636
24/08/2010	453	428
25/08/2010	469	425
26/08/2010	408	403
27/08/2010	455	408
28/08/2010	423	418
29/08/2010	432	390
30/08/2010	434	432
31/08/2010	427	396
01/09/2010	415	391
02/09/2010	432	385
03/09/2010	410	391
04/09/2010	528	518
05/09/2010	425	394

Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows
Treatment Plant: Athboy WwTP
Date Licensed: 02/06/2010
Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
06/09/2010	2,174	1,785
07/09/2010	909	1,170
08/09/2010	699	684
09/09/2010	827	525
10/09/2010	949	1,102
11/09/2010	678	703
12/09/2010	620	582
13/09/2010	693	577
14/09/2010	842	871
15/09/2010	607	582
16/09/2010	626	582
17/09/2010	599	553
18/09/2010	796	755
19/09/2010	628	598
20/09/2010	654	575
21/09/2010	600	618
22/09/2010	810	763
23/09/2010	749	722
24/09/2010	655	593
25/09/2010	610	549
26/09/2010	594	546
27/09/2010	587	542
28/09/2010	721	628
29/09/2010	589	594
30/09/2010	614	573
01/10/2010	638	584
02/10/2010	700	678
03/10/2010	600	557
04/10/2010	588	562
05/10/2010	583	545
06/10/2010	541	521
07/10/2010	551	518

Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows
Treatment Plant: Athboy WwTP
Date Licensed: 02/06/2010
Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
08/10/2010	535	513
09/10/2010	576	529
10/10/2010	530	507
11/10/2010	508	469
12/10/2010	489	443
13/10/2010	486	453
14/10/2010	493	460
15/10/2010	532	494
16/10/2010	508	458
17/10/2010	510	476
18/10/2010	474	432
19/10/2010	461	438
20/10/2010	520	437
21/10/2010	555	537
22/10/2010	586	558
23/10/2010	482	449
24/10/2010	447	422
25/10/2010	450	399
26/10/2010	778	710
27/10/2010	664	648
28/10/2010	611	553
29/10/2010	1,406	1,344
30/10/2010	635	617
31/10/2010	560	526
01/11/2010	623	605
02/11/2010	906	853
03/11/2010	950	841
04/11/2010	1,414	1,329
05/11/2010	1,473	1,391
06/11/2010	1,419	1,428
07/11/2010	1,708	1,306
08/11/2010	2,166	2,282

Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows
Treatment Plant: Athboy WwTP
Date Licensed: 02/06/2010
Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
09/11/2010	2,465	2,451
10/11/2010	2,081	2,008
11/11/2010	2,323	2,203
12/11/2010	1,927	1,865
13/11/2010	1,989	1,879
14/11/2010	1,766	1,752
15/11/2010	1,747	1,663
16/11/2010	1,758	1,675
17/11/2010	2,256	2,099
18/11/2010	2,034	2,053
19/11/2010	1,961	1,845
20/11/2010	1,891	1,825
21/11/2010	1,801	1,717
22/11/2010	1,856	1,714
23/11/2010	1,810	1,754
24/11/2010	1,603	1,519
25/11/2010	1,547	1,463
26/11/2010	1,504	1,416
27/11/2010	1,449	1,388
28/11/2010	1,381	1,314
29/11/2010	1,376	1,183
30/11/2010	1,387	1,390
01/12/2010	1,438	1,726
02/12/2010	1,355	1,212
03/12/2010	942	515
04/12/2010	1,149	667
05/12/2010	1,149	667
06/12/2010	1,149	667
07/12/2010	1,038	2,855
08/12/2010	1,043	716
09/12/2010	946	1,163
10/12/2010	1,101	1,164

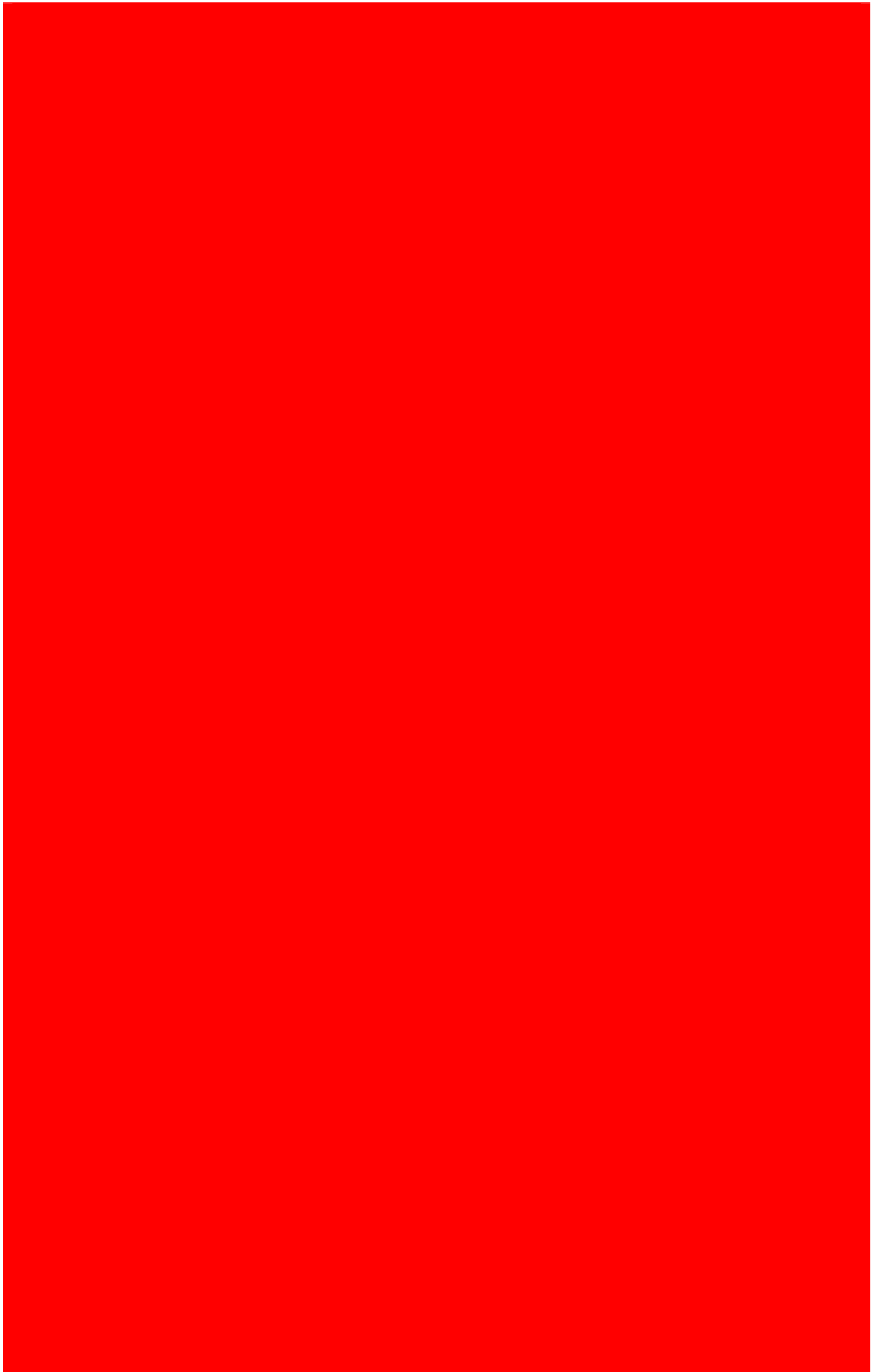
Meath County Council
EPA Waste Water Discharge Licensing

Title:: Influent and Effluent Flows
Treatment Plant: Athboy WwTP
Date Licensed: 02/06/2010
Reporting Period: 01/01/10 to 31/12/10

Date	Influent (m3/d)	Final Effluent (m3/d)
11/12/2010	1,340	1,378
12/12/2010	1,341	1,378
13/12/2010	1,340	1,378
14/12/2010	1,310	1,186
15/12/2010	993	893
16/12/2010	672	729
17/12/2010	1,060	1,020
18/12/2010	1,134	1,098
19/12/2010	1,135	1,098
20/12/2010	1,134	1,098
21/12/2010	441	585
22/12/2010	999	971
23/12/2010	998	971
24/12/2010	1,027	607
25/12/2010	1,027	608
26/12/2010	1,029	607
27/12/2010	1,027	608
28/12/2010	1,026	607
29/12/2010	1,763	2,527
30/12/2010	872	1,041
31/12/2010	1,354	1,294

Calculations:

	<u>Influent</u>	<u>Effluent</u>
Average Flow (m3/d):	822	790
Number of days recorded:	213	213
Annual Mass Flow (Total m3 for 365 days):	300,183	288,458
Storm Overflow (Estimate: 10% of Annual Mass Flow):	30,018	



Section 2.3 Influent and Effluent Monitoring Report.

Meath County Council

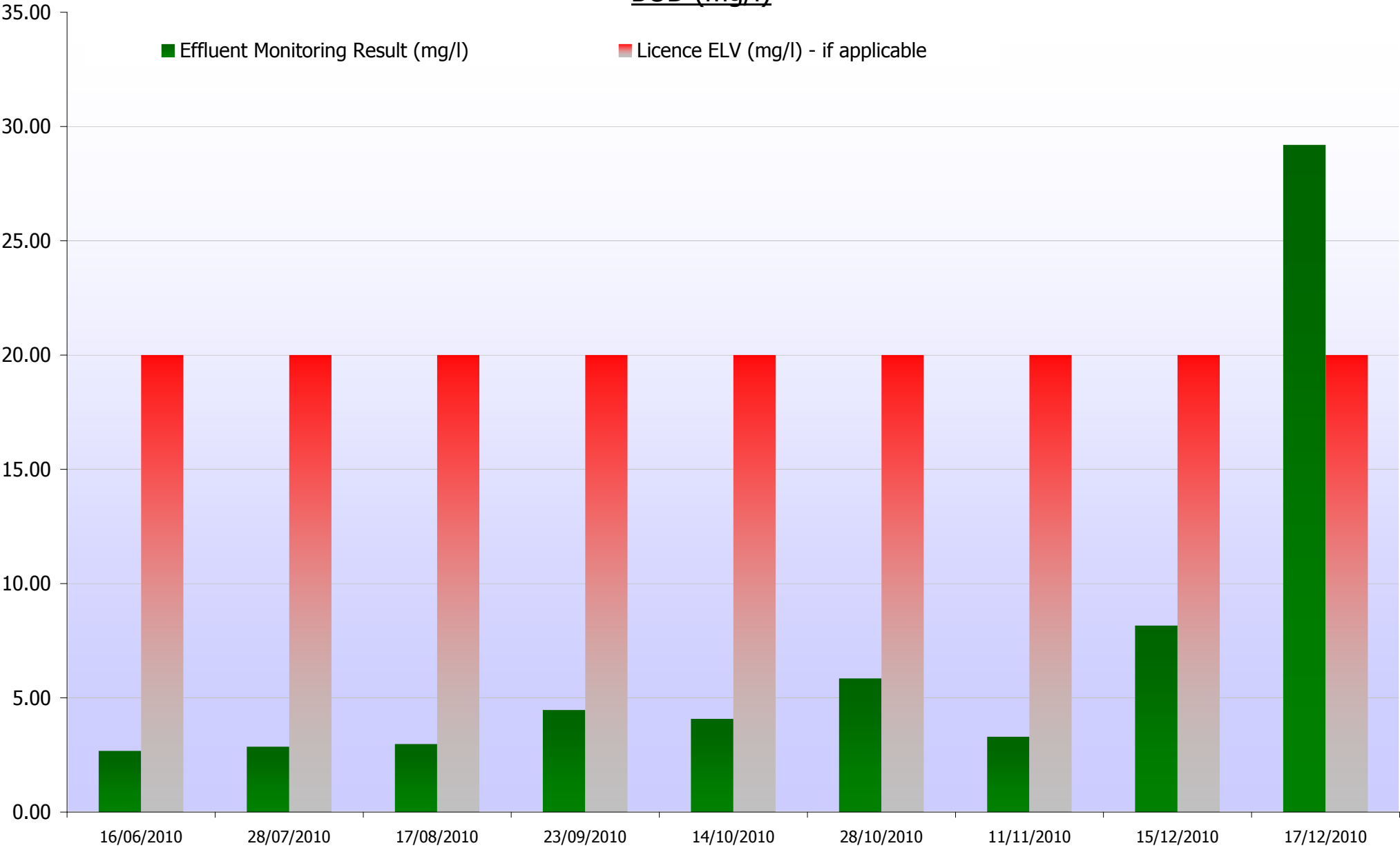
EPA Waste Water Discharge Licensing

Reporting Period: 01/01/10 to 31/12/10
 Treatment Plant: Athboy WwTP
 Type of Analysis: Licence Monitoring
 Licence Status: Granted 02/06/2010

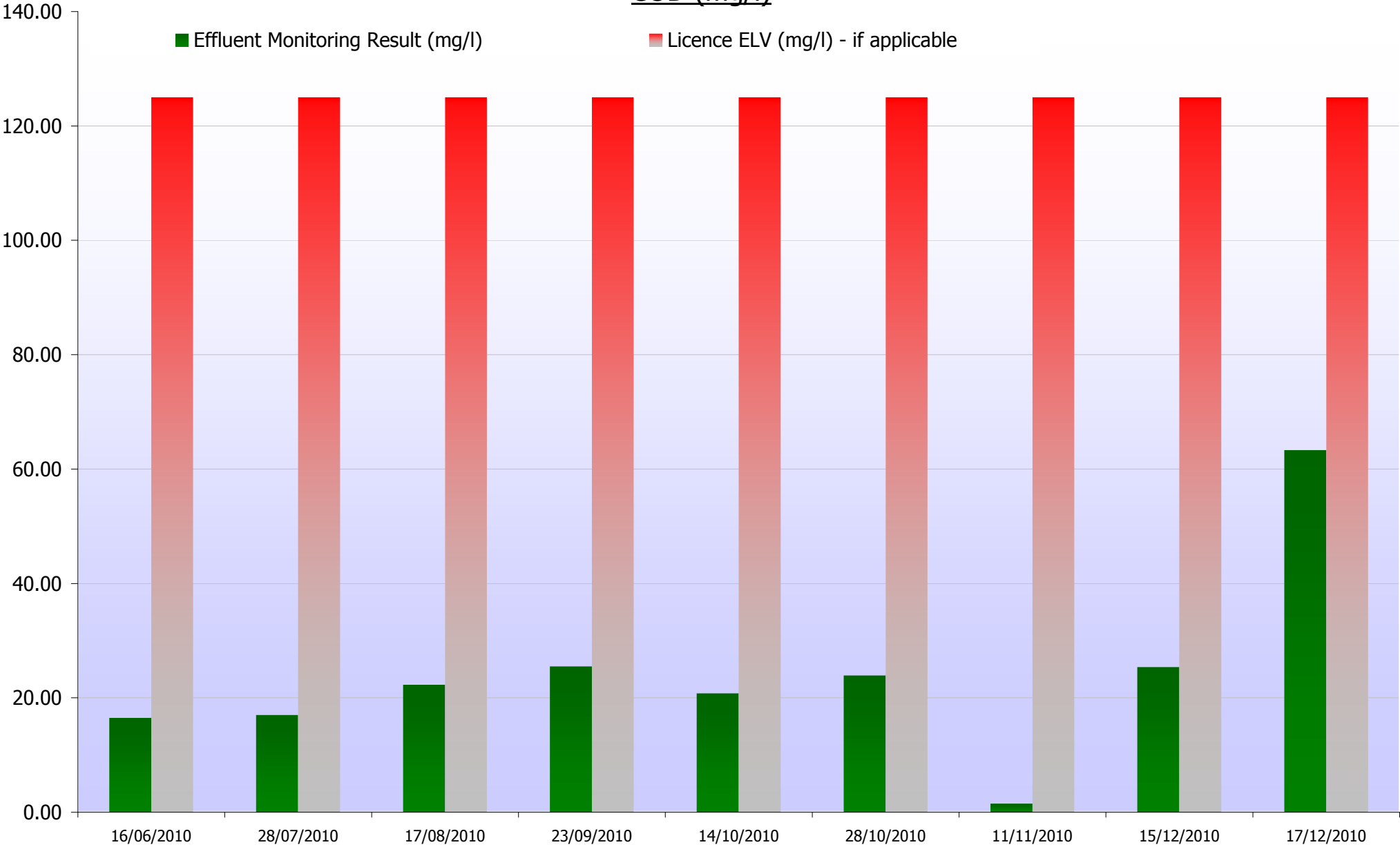
Elevated Influent Result
 Full Compliance (Note 1)
 Non reportable ELV Exceedance (Note 2)
 Reportable ELV Exceedance (Note 3)

Date	INFLUENT (mg/l)							EFFLUENT (mg/l)											(kg/d)		Comments	Ref:	
	m3/d	BOD	COD	SS	TP	TN	p.e	m3/d	BOD	COD	SS	TP	OP	TN	NH4	NO3	NO2	TON	BOD	TP			
16/06/2010	616	159	411	206	5	33	1,632	629	2.7	16.5	2.8	0.4	0.32	15.8	0.05				1.7	0.3	Note 1		
28/07/2010	653	327	432	156	6	39	3,559	594	2.9	17.0	3.8	0.4	0.32	8.1	0.05				1.7	0.2	Note 1		
17/08/2010	480	433	733	313	9	56	3,464	509	3.0	22.3	3.6	0.6	0.51	13.8	0.06				1.5	0.3	Note 1		
23/09/2010	749	316	603	283	8	39	3,945	722	4.5	25.5	4.4	0.2	0.14	15.3	0.03				3.2	0.2	Note 1		
14/10/2010	508	443	801	356	11	58	3,751	469	4.1	20.8	4.0	0.3	0.23	14.7	0.03	14.3	0.02	14.3	1.9	0.2	Note 1		
28/10/2010	611	363	639	270	8	41	3,697	553	5.9	23.9	5.2	0.3	0.24	18.4	0.03	16.7	0.08	16.8	3.2	0.2	Note 1		
11/11/2010	2,323	55	154	57	2	10	2,114	2,203	3.3	1.5	2.0	0.4	0.32	6.1	0.02	5.9	0.01	6.0	7.3	0.9	Note 1		
15/12/2010	993	217	463	196	6	28	3,591	893	8.2	25.4	16.0	0.4	0.18	10.1	0.02	9.9	0.01	9.9	7.3	0.3	Note 1		
17/12/2010	1,060	187	425	196	6	28	3,295	1,020	29.2	63.3	53.6	1.2	0.60	14.8	0.02	12.3	0.04	12.3	29.8	1.2	Note 2		
Average:	888	278	518	226	7	37	3,227	844	7	24	11	0.5	0.3	13	0	11.8	0.03	11.8	6.4	0.4			
Sum:	7,993	2,499	4,661	2,033	61	333		7,592	64	216	95	4	3	117	0	59.1	0.15	59.2	58	4			
ELV - Non-reportable incident limits.									20	125	35	1.0	0.6		1								
ELV - Reportable incident limits.									40	250	88	1.2	0.7		1								

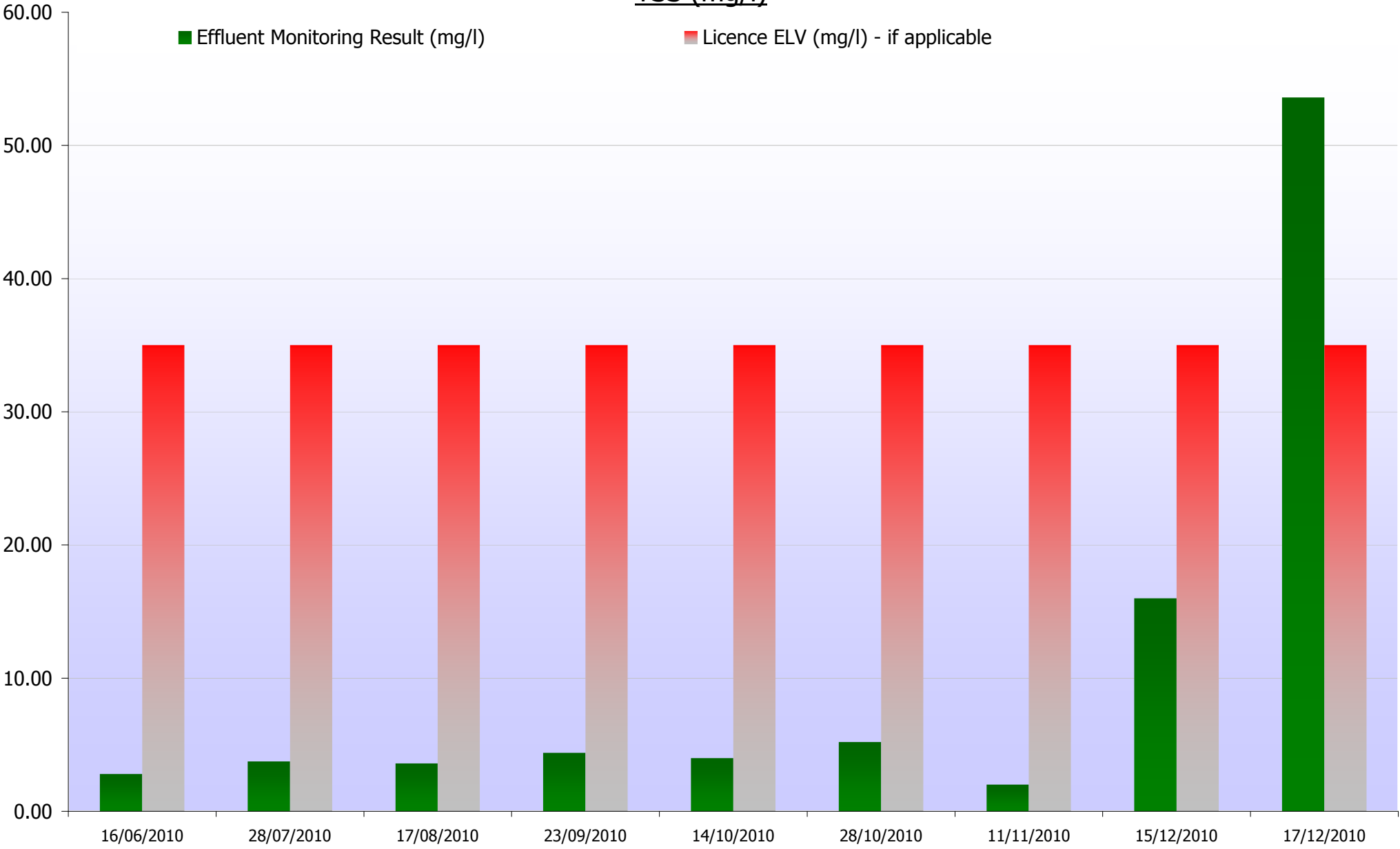
Athboy WwTP
BOD (mg/l)



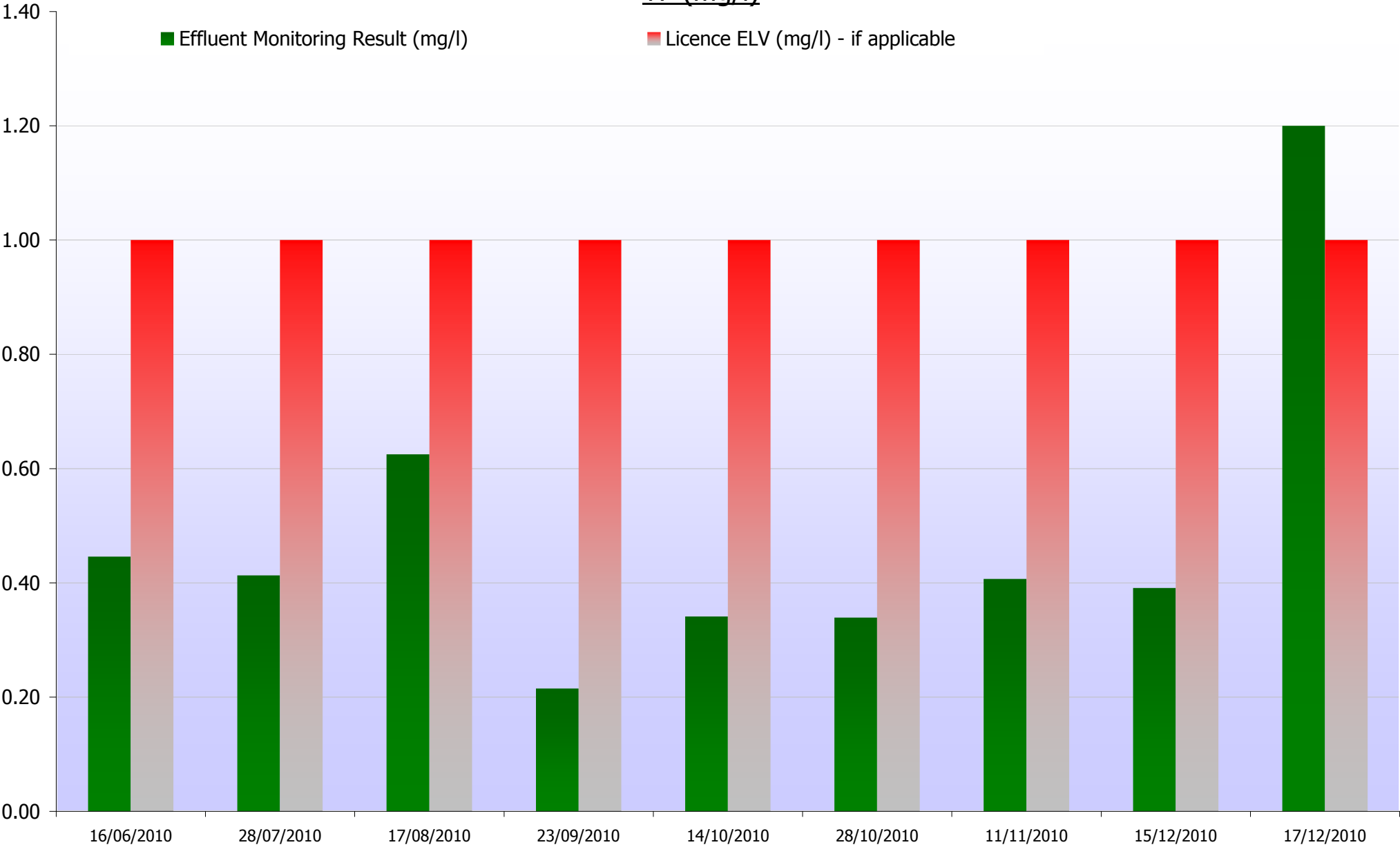
Athboy WwTP
COD (mg/l)



Athboy WwTP
TSS (mg/l)

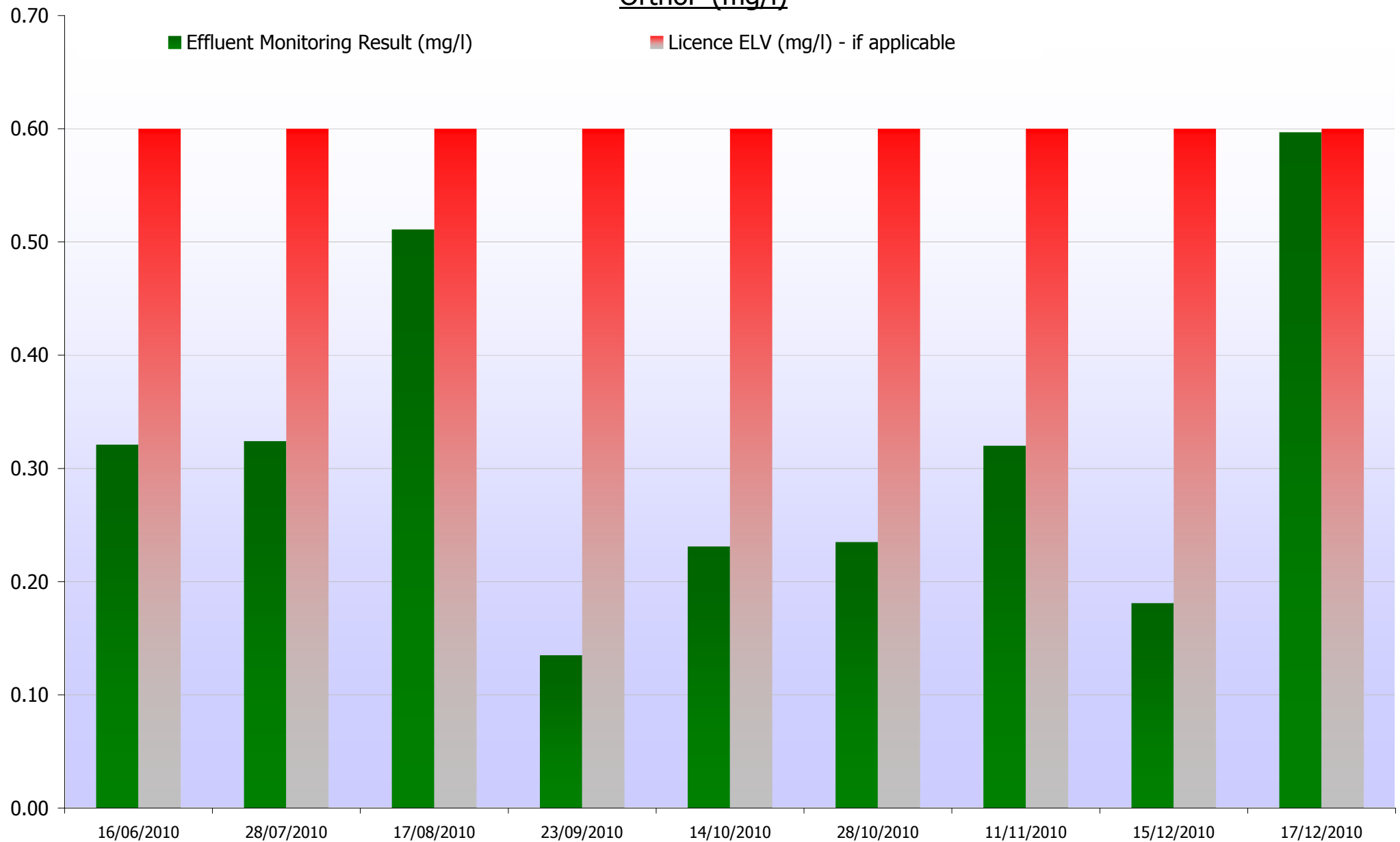


Athboy WwTP
TP (mg/l)



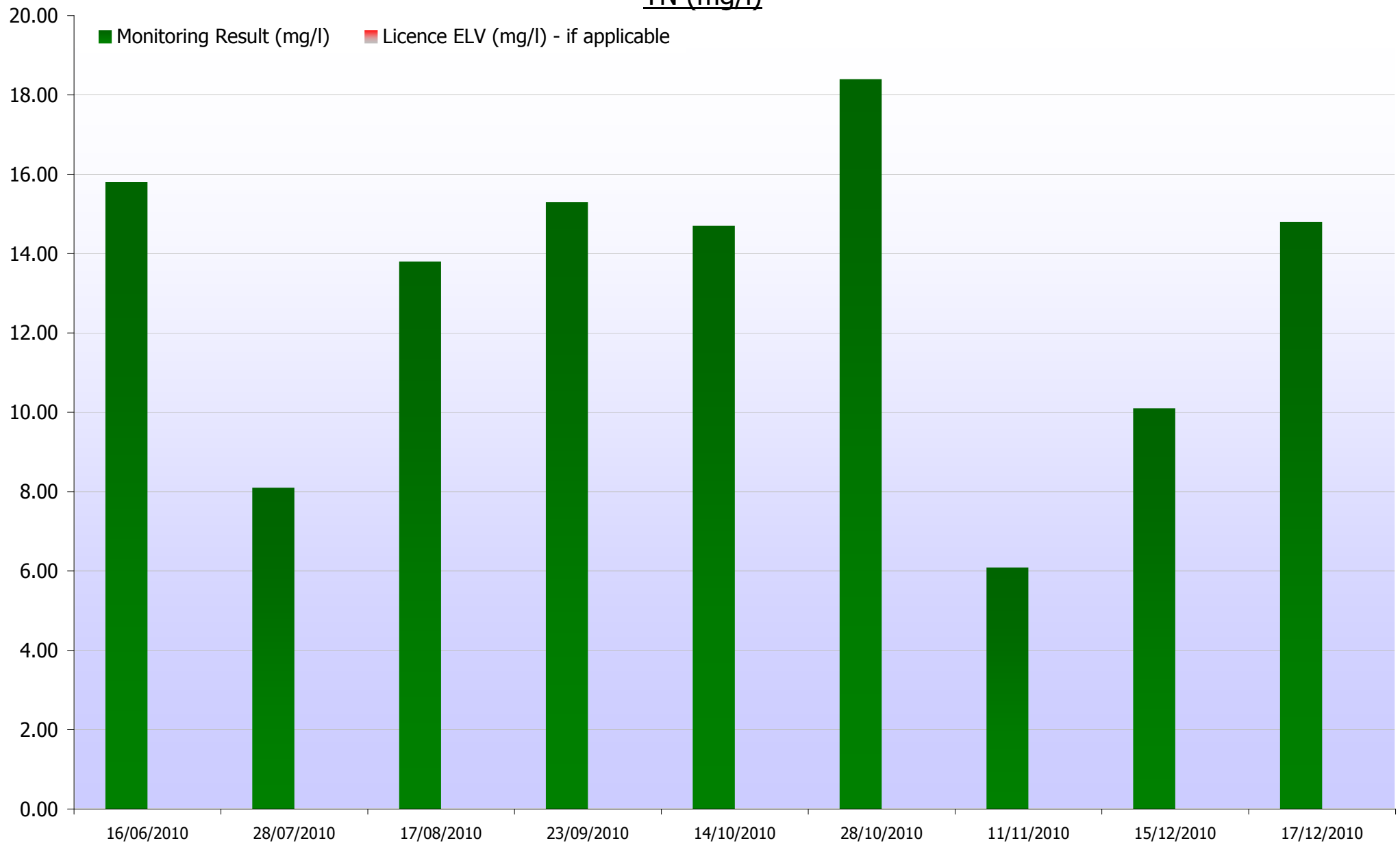
Athboy WwTP

OrthoP (mg/l)

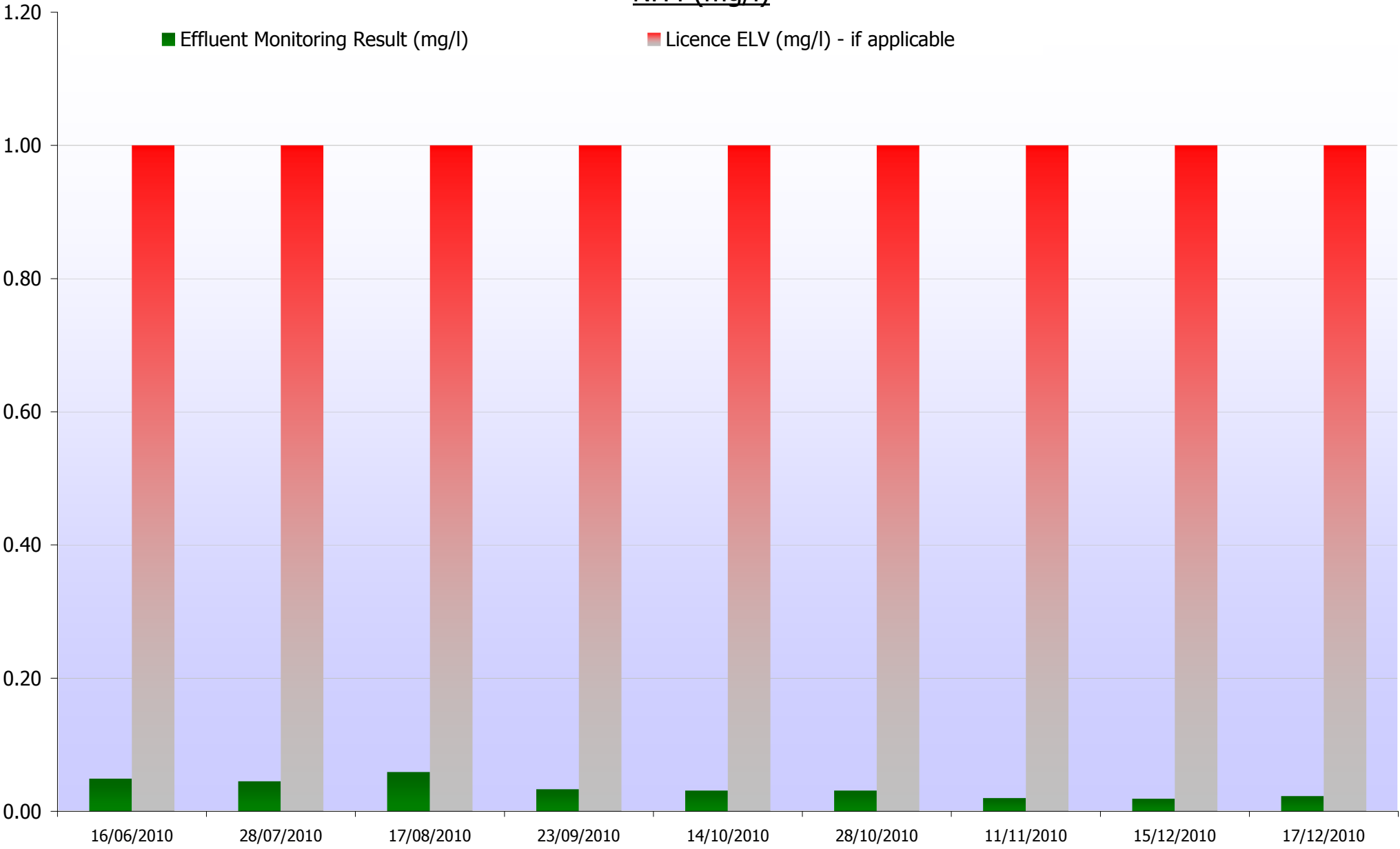


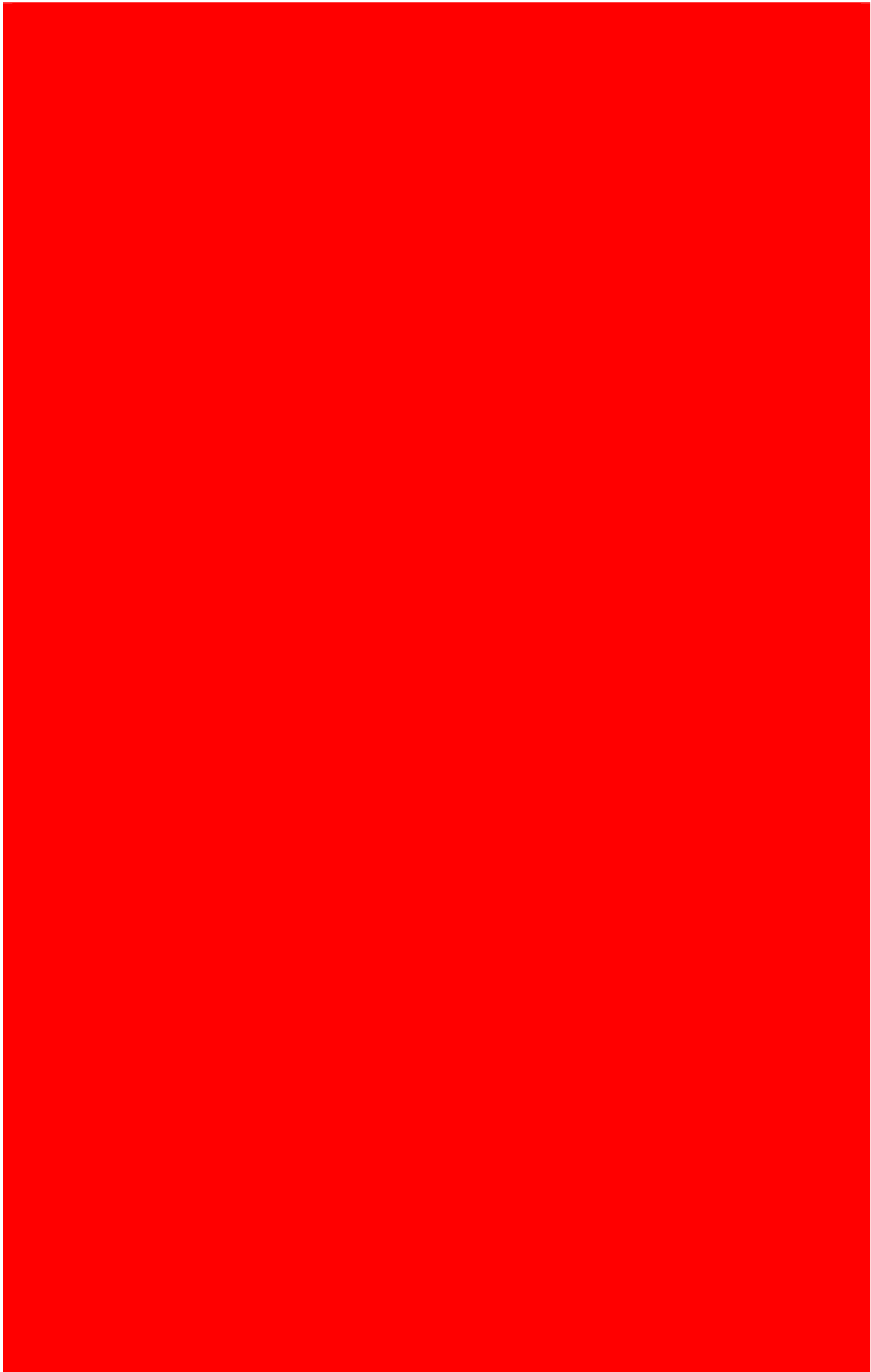
Athboy WwTP

TN (mg/l)



Athboy WwTP
NH4 (mg/l)





Section 2.4 Mass Loading - PRTR Calculations (Final Effluent).

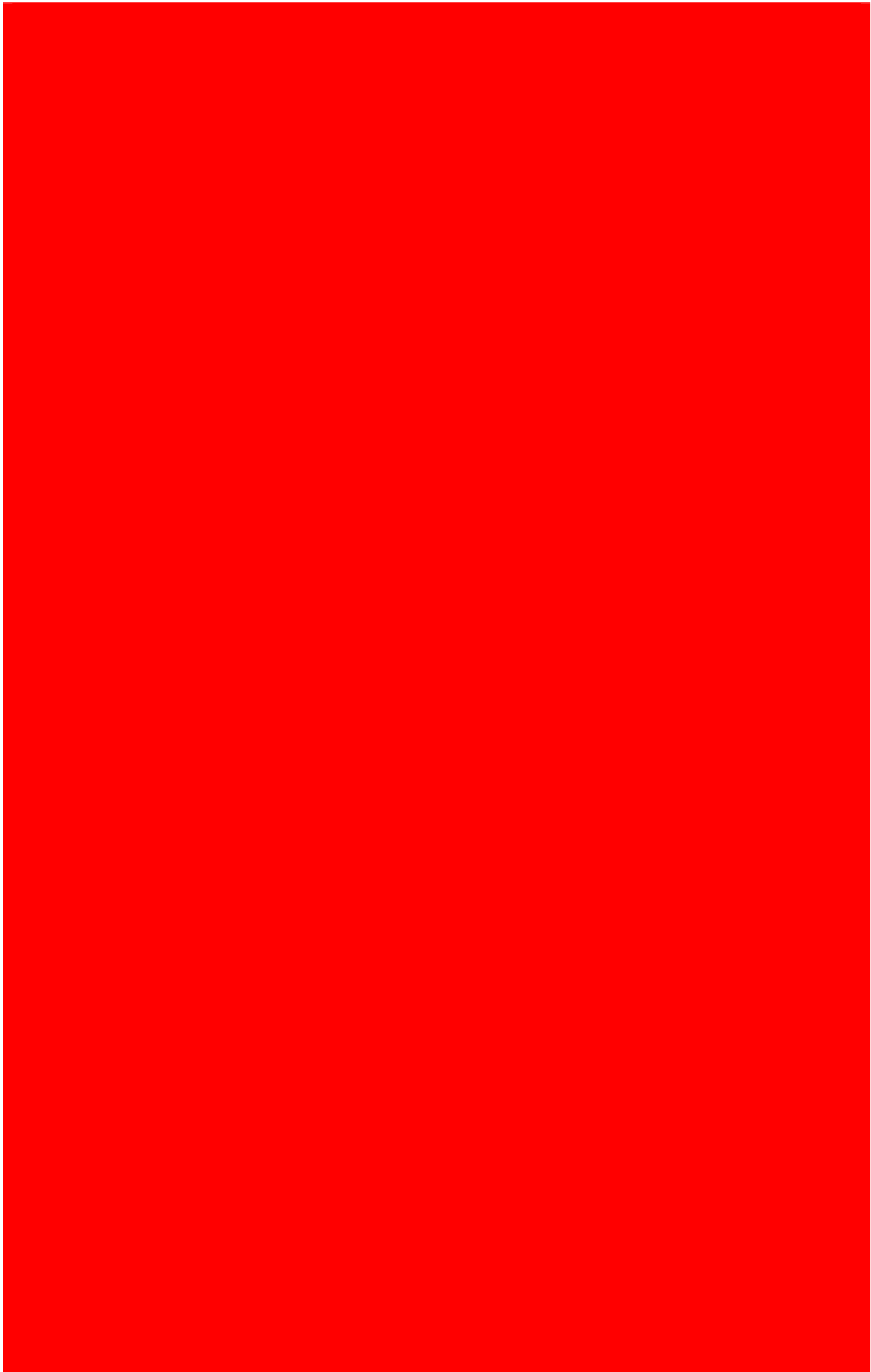
Meath County Council
EPA Waste Water Discharge Licensing

Reporting Period: 01/01/10 to 31/12/10
Treatment Plant: Athboy WwTP
Type of Analysis: Licence Monitoring
Licence Status: Granted 02/06/2010

Calculations:

A. Average effluent flows (m3/d) (INFLUENT AND EFFLUENT FLOW REPORT, SECTION 2.2): 790
B. Total annual mass effluent flow (m3/annum) (INFLUENT AND EFFLUENT FLOW REPORT, SECTION 2.2): 288,458
C. Sum of daily effluent flows on the sampling dates (m3): 7,592

	<u>BOD</u>	<u>COD</u>	<u>TSS</u>	<u>TP</u>	<u>OrthoP</u>	<u>TN</u>	<u>NH4</u>	<u>Nitrate</u>	<u>Nitrite</u>
D. Average daily effluent load (mg/l):	7.1	24.0	10.6	0.5	0.3	13.0	0.0	11.8	0.0
E. Sum of daily effluent loads (mg/l)	63.6	216.2	95.4	4.4	2.9	117.1	0.3	59.1	0.1
F. Sum of daily effluent mass loads (kg/day)	50.2	170.8	75.3	3.5	2.3	92.5	0.2	46.7	0.1
H. Flow weighted average concentration (F/C)	0.007064	0.024022	0.010594	0.000486	0.000317	0.013010	0.000034	0.006567	0.000017
G. Flow weighted average concentration x 1000 (mg/l)	7.1	24.0	10.6	0.5	0.3	13.0	0.0	6.6	0.0
I. Flow Weighted Mass Emission (kg/annum) (HxB)	2,038	6,929	3,056	140	92	3,753	10	1,894	5



Customer	Enda Collins Meath Co. Co. Navan Water Treatment Plant Boyne Road Navan Co Meath	Lab Report Ref. No.	0490/207/03
Customer PO	240239284	Date of Receipt	10/11/2010
Customer Ref	Athboy WWTP PSW1 - EPA Split 10/11/10	Date Testing Commenced	10/11/2010
		Received or Collected	Delivered by Customer
		Condition on Receipt	Acceptable
		Date of Report	24/01/2011
		Sample Type	Trade Effluent

CERTIFICATE OF ANALYSIS

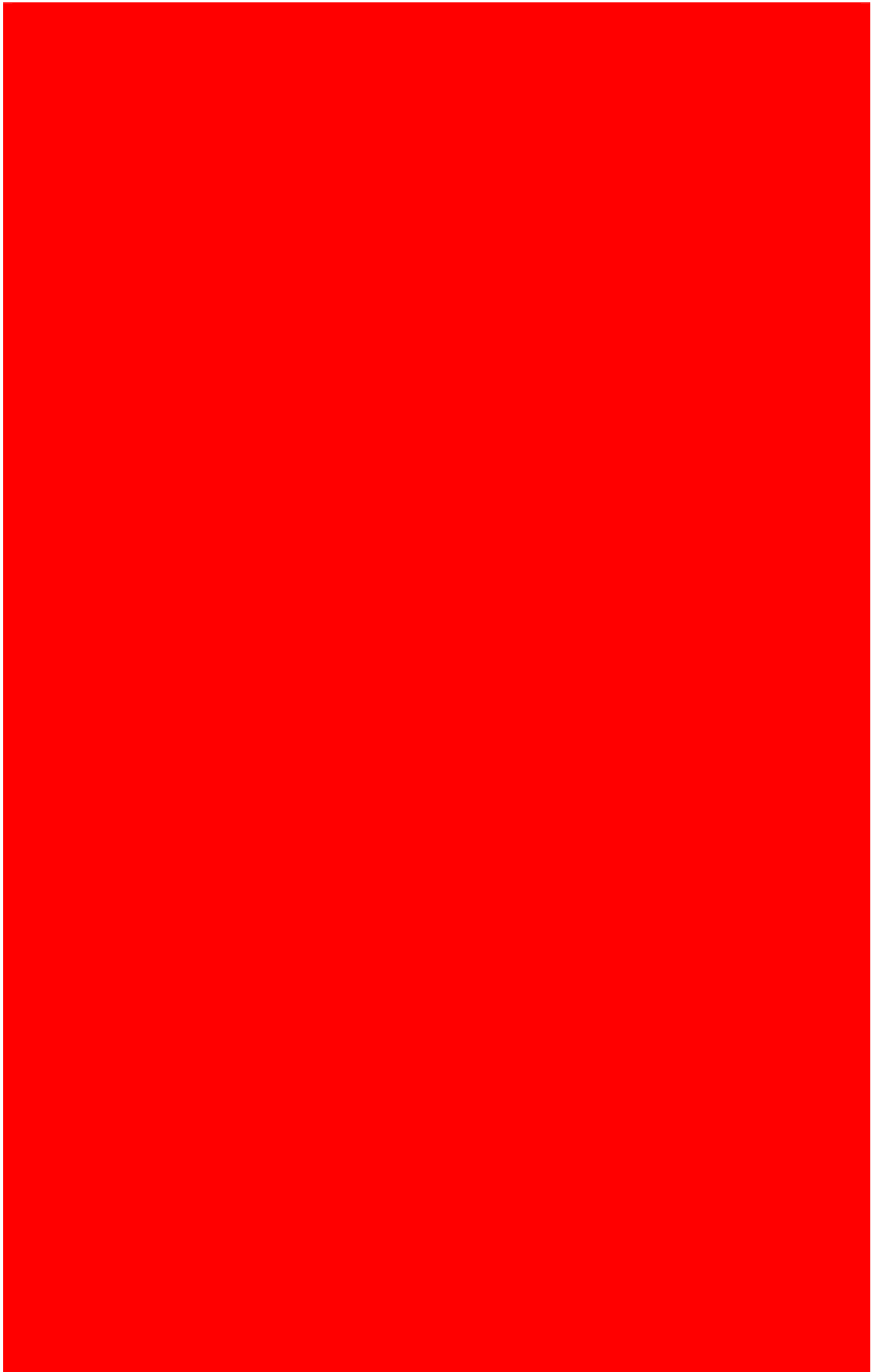
Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia (Industrial Eff.)	114	Colorimetry	0.03	mg/L as N	
Ammonia as NH ₄	119	Calculation	0.039	mg/L as NH ₄	
BOD (Industrial Eff.)	113	Electrometry	<2	mg/L	UKAS
COD (Industrial Eff.)	107	Colorimetry	5	mg/L	UKAS
Coliforms (Faecal)	140	Filtration/ Incubation 44C/ 24	400	no/ 100ml	
Coliforms (Total)	140	Filtration/ Incubation 37C/ 24	5700	no/ 100ml	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrimetric	1.12	mg/L as N	
Nitrogen (Total Oxidised) (Industrial)	151	Colorimetry	6.19	mg/L as N	UKAS
Nitrogen (Total)	0	Calculation	7.31	mg/L as N	
pH (Industrial Eff.)	110	Electrometry	7.7	pH Units	UKAS
Phosphate (Ortho) Industrial Eff.	117	Colorimetry	0.263	mg/L as P	UKAS
Phosphate (Total) Industrial Eff.	166	Digestion/ Colorimetry	0.263	mg/L as P	UKAS

Signed : _____

Date : _____

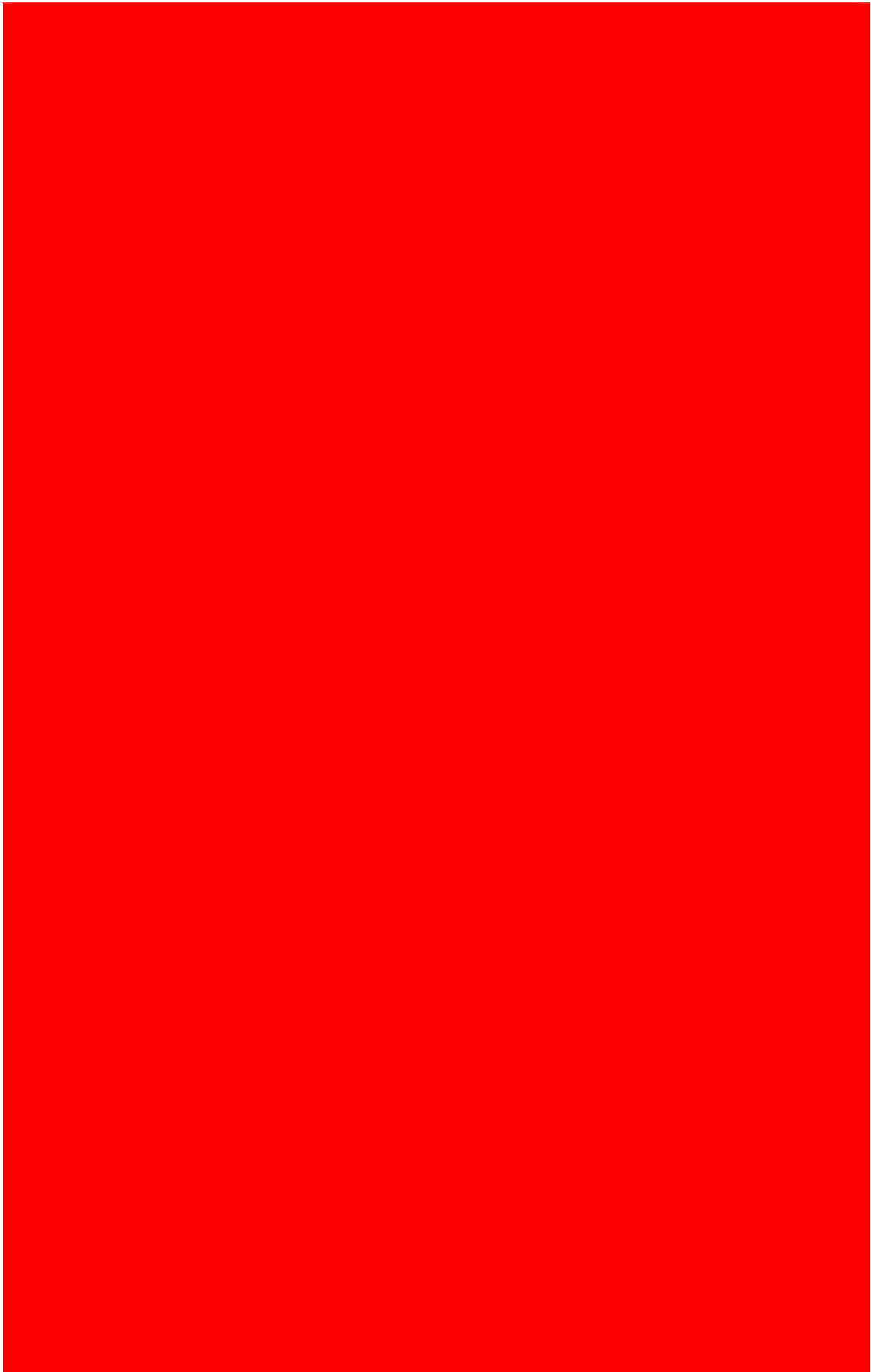
Acc. : Accredited Parameters by ISO 17025:2005

All organic results are analysed as received and all results are corrected for dry weight at 104 C
Results shall not be reproduced, except in full, without the approval of Fitz Scientific
Results contained in this report relate only to the samples tested



SECTION 2.6: DATA COLLECTION & REPORTING AS PER UWWT DIRECTIVE.

The Environmental Section of Meath County Council is responsible for all the data collection and reporting requirement under the Urban Waste Water Treatment Directive. All results have been submitted via the EPA Online Returns Website.



SECTION 2.7: PLANT LOADING CALCULATIONS.

Treatment Plant: Athboy WwTP

Date Licensed: 02/06/2010

Reporting Period: 01/01/10 to 31/12/10

Monitoring Type: Licence Monitoring

p.e formula:

KgBOD/d: $(\text{BOD}(\text{mg/l}) \times \text{Flow}(\text{m}^3))/1000$

p.e: $(\text{KgBOD/d}) / 0.060 \text{ kg BOD per capita per day.}$

Influent BOD kg/annum: $(\text{Sum of daily influent flows}(\text{m}^3) \times \text{Average BOD}(\text{mg/l}))/1000$

Calculations:

Licensed capacity of WwTP (p.e):	5,800
Average influent BOD (mg/l):	278
Average daily influent flow (m ³ /d): ^{Note1}	822
Sum of the daily influent flows (m ³ /d): ^{Note2}	300,183
Total influent BOD kg/annum (required for PRTR):	83,451
Calculated p.e:	3,809
Available capacity in the WwTP at the current loading (p.e)	1,991

Comments:

Note 1: The average daily influent flow used to calculate the current plant loading is the average of the all the daily influent flows recorded in 2010. See SECTION 2.2 INFLUENT AND EFFLUENT FLOW REPORT.

Note 2: Annual Mass Influent Flow, calculated in SECTION 2.2 INFLUENT AND EFFLUENT FLOW REPORT.

SECTION 3

Complaints and Incident Reports

SECTION 3.1: COMPLAINTS SUMMARY

There were no complaints recorded during the AER reporting period 01/01/10 to 31/12/10.

SECTION 3.2: INCIDENTS SUMMARY

In December 2010 Athboy WwTP's final effluent exceeded the licensed emission limit value (ELV) for BOD, TSS and TP. As no individual parameter exceeded the maximum concentration allowable, as per condition 2.1, no incident report was required.

SECTION 4
**Infrastructural Assessments
&
Programme of Improvements**

SECTION 4.1: STORM WATER OVERFLOWS IDENTIFICATION AND INSPECTION REPORT

As per Condition 4.12 of this licence an identification and inspection report was conducted and submitted to the EPA on the June 25th 2011. The overflow has been deemed to be in compliance with the DoEHLG *Procedures and Criteria in Relation to Storm Water Overflows* and no further works are deemed to be necessary at this stage

SECTION 4.2: IMPROVEMENTS PROGRAMME

A new WwTP for Athboy was completed and formally taken over by EPS (DBO) in September 2010. As this is a newly commissioned plant there are no plans for any infrastructural improvements.

LICENCE CONDITION 5.4: PROGRAMME OF MEASURES FOR GATHERING, RECORDING, AND RETENTION OF INFORMATION

As-Constructed drawings and Mechanical & Electrical drawing are available for inspection, centrally at Duleek WwTP. The information includes all the infrastructural components of the waste water works.

SECTION 4.3: DEVELOPMENT/INFRASTRUCTURE WORKS.

Apart for the commissioning of the new waste water treatment plant, there were no additional developments or infrastructural works carried out by Meath County Council during the AER period 01/01/2010 to 31/12/2010.

SECTION 5
Licence Specific Reports

SECTION 5.1: STATEMENT OF MEASURES.

Annual Statement:

Meath County Council will take all reasonable measures to prevent environmental damage. Meath County Council is also reviewing its environmental liability pollution insurance to ensure the costs of all remedial actions following an anticipated events, accidents or incidents associated with discharges or overflows from the waste water works are covered.

SECTION 5.2: ENVIRONMENTAL LIABILITIES AND RISK ASSESSMENT (ELRA) REPORT.

As per condition 7.2.2 of the licence, Meath County Council had prepared a comprehensive Environmental Liabilities Risk Assessment (ELRA). The assessment was conducted by Rowan Engineering Consultants Ltd. and was submitted to the EPA on the 27TH May 2011.

SECTION 5.3: WATER ABSTRACTION POINT RISK ASSESSMENT REPORT.

As per condition 4.16 of the licence, Meath County Council carried out a risk assessment for the protection of the downstream drinking water abstraction points, in particular for the Athboy borehole abstraction point and was submitted to the EPA on June 15th 2011.

The risks to drinking water abstractions at Athboy were deemed to be low and recommendations were summarised in the report as follows:

- SCADA system to be used to monitor Storm Water overflows from SW2.
- SCADA system to be used to monitor equipment failures at waste water treatment plant.
- SCADA system to be used to monitor equipment failures at pumping stations and high levels at pumping stations
- Water treatment plant to be contacted in the event of significant discharges.
- Athboy water supply to be tested for Coliforms following any significant discharges.

SECTION 6
**Pollution Release
and Transfer Register
(PRTR)**



Environmental Protection Agency

| PRTR# : D0124 | Facility Name : Athboy Waste Water Treatment Plant | Filename : D0124_2010.xls | Return Year : 2010 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.12

REFERENCE YEAR	2010
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Meath County Council
Facility Name	Athboy Waste Water Treatment Plant
PRTR Identification Number	D0124
Licence Number	D0124-01

Waste or IPPC Classes of Activity

No.	class_name
30.4	General

Address 1	County Hall
Address 2	Railway Street
Address 3	Navan
Address 4	County Meath
	Meath
Country	Ireland
Coordinates of Location	-6.91101 53.6179
River Basin District	IEEA
NACE Code	3700
Main Economic Activity	Sewerage
AER Returns Contact Name	Mr Gerry Boyle (D0124)
AER Returns Contact Email Address	gboyle@meathcoco.ie
AER Returns Contact Position	Senior Engineer
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(f)	Urban waste-water treatment plants

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : D0124 | Facility Name : Athboy Waste Water Treatment Plant | Filename : D0124_2010.xls | Return Year : 2010 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
01	Methane (CH4)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	0.0	0.0	0.0
02	Carbon monoxide (CO)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	0.0	0.0	0.0
03	Carbon dioxide (CO2)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	91534.6	0.0	91534.6
05	Nitrous oxide (N2O)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	0.4	0.0	0.4
07	Non-methane volatile organic compounds (NMVOC)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	0.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	0.0	0.0	0.0
11	Sulphur oxides (SOx/SO2)	E	ESTIMATE	EPA UWWTP Tool v4.0	0.0	0.0	0.0	0.0
* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button								

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
		M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
Name			Method Code	Designation or Description				
No. Annex II					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR				Please enter all quantities in this section in KGs			
POLLUTANT		METHOD		QUANTITY			
Pollutant No.	Name	M/C/E	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
		Method Code	Designation or Description				
				0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:

Athboy Waste Water Treatment Plant

Please enter summary data on the

quantities of methane flared and / or utilised

		M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
T (Total) kg/Year					
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

[PRTR# : D0124 | Facility Name : Athboy Waste Water Treatment Plant | Filename : D0124_2010.xls | Return Year : 2010 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this

RELEASES TO WATERS					Please enter all quantities in this section in KGs				
POLLUTANT		Method Used			QUANTITY				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
44	1,2,3,4,5,6-hexachlorocyclohexane(HCH)	E	ESTIMATE	EPA WWTP Tool V2.0	0.001	0.001	0.0	0.0	
34	1,2-dichloroethane (EDC)	E	ESTIMATE	EPA WWTP Tool V2.0	0.014	0.016	0.0	0.002	
25	Alachlor	E	ESTIMATE	EPA WWTP Tool V2.0	0.003	0.003	0.0	0.0	
61	Anthracene	E	ESTIMATE	EPA WWTP Tool V2.0	0.003	0.003	0.0	0.0	
17	Arsenic and compounds (as As)	E	ESTIMATE	EPA WWTP Tool V2.0	0.288	0.318	0.0	0.03	
27	Atrazine	E	ESTIMATE	EPA WWTP Tool V2.0	0.019	0.021	0.0	0.002	
91	Benzo(g,h,i)perylene	E	ESTIMATE	EPA WWTP Tool V2.0	0.001	0.001	0.0	0.0	
18	Cadmium and compounds (as Cd)	E	ESTIMATE	EPA WWTP Tool V2.0	0.016	0.018	0.0	0.002	
28	Chlordane	E	ESTIMATE	EPA WWTP Tool V2.0	0.001	0.001	0.0	0.0	
30	Chlorfenvinphos	E	ESTIMATE	EPA WWTP Tool V2.0	0.0	0.0	0.0	0.0	
79	Chlorides (as Cl)	E	ESTIMATE	EPA WWTP Tool V2.0	71776.9	79246.3	0.0	7469.4	
31	Chloro-alkanes, C10-C13	E	ESTIMATE	EPA WWTP Tool V2.0	0.061	0.067	0.0	0.006	
19	Chromium and compounds (as Cr)	E	ESTIMATE	EPA WWTP Tool V2.0	0.106	0.117	0.0	0.011	
20	Copper and compounds (as Cu)	E	ESTIMATE	EPA WWTP Tool V2.0	0.511	0.564	0.0	0.053	
82	Cyanides (as total CN)	E	ESTIMATE	EPA WWTP Tool V2.0	0.5043	0.5563	0.0	0.052	
33	DDT	E	ESTIMATE	EPA WWTP Tool V2.0	0.003	0.003	0.0	0.0	
70	Di-(2-ethyl hexyl) phthalate (DEHP)	E	ESTIMATE	EPA WWTP Tool V2.0	0.361	0.399	0.0	0.038	
36	Dieldrin	E	ESTIMATE	EPA WWTP Tool V2.0	0.06	0.066	0.0	0.006	
37	Diuron	E	ESTIMATE	EPA WWTP Tool V2.0	0.027	0.03	0.0	0.003	
38	Endosulphan	E	ESTIMATE	EPA WWTP Tool V2.0	0.002	0.002	0.0	0.0	
65	Ethyl benzene	E	ESTIMATE	EPA WWTP Tool V2.0	0.023	0.025	0.0	0.002	
88	Fluoranthene	E	ESTIMATE	EPA WWTP Tool V2.0	0.004	0.004	0.0	0.0	
83	Fluorides (as total F)	E	ESTIMATE	EPA WWTP Tool V2.0	100.89	111.39	0.0	10.5	
40	Halogenated organic compounds (as AOX)	E	ESTIMATE	EPA WWTP Tool V2.0	0.689	0.761	0.0	0.072	
42	Hexachlorobenzene (HCB)	E	ESTIMATE	EPA WWTP Tool V2.0	0.0	0.0	0.0	0.0	
43	Hexachlorobutadiene (HCBd)	E	ESTIMATE	EPA WWTP Tool V2.0	0.0	0.0	0.0	0.0	
89	Isodrin	E	ESTIMATE	EPA WWTP Tool V2.0	0.017	0.019	0.0	0.002	
23	Lead and compounds (as Pb)	E	ESTIMATE	EPA WWTP Tool V2.0	0.287	0.317	0.0	0.03	
45	Lindane	E	ESTIMATE	EPA WWTP Tool V2.0	0.001	0.001	0.0	0.0	
21	Mercury and compounds (as Hg)	E	ESTIMATE	EPA WWTP Tool V2.0	0.019	0.021	0.0	0.002	
68	Naphthalene	E	ESTIMATE	EPA WWTP Tool V2.0	0.132	0.146	0.0	0.014	
22	Nickel and compounds (as Ni)	E	ESTIMATE	EPA WWTP Tool V2.0	2.236	2.469	0.0	0.233	
64	Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	E	ESTIMATE	EPA WWTP Tool V2.0	0.019	0.021	0.0	0.002	
69	Organotin compounds (as total Sn)	E	ESTIMATE	EPA WWTP Tool V2.0	0.003	0.003	0.0	0.0	
48	Pentachlorobenzene	E	ESTIMATE	EPA WWTP Tool V2.0	0.0	0.0	0.0	0.0	
71	Phenols (as total C)	E	ESTIMATE	EPA WWTP Tool V2.0	3.564	3.935	0.0	0.371	
50	Polychlorinated biphenyls (PCBs)	E	ESTIMATE	EPA WWTP Tool V2.0	0.002	0.002	0.0	0.0	
72	Polycyclic aromatic hydrocarbons (PAHs)	E	ESTIMATE	EPA WWTP Tool V2.0	0.233	0.257	0.0	0.024	
52	Tetrachloroethylene (PER)	E	ESTIMATE	EPA WWTP Tool V2.0	0.129	0.142	0.0	0.013	
73	Toluene	E	ESTIMATE	EPA WWTP Tool V2.0	0.034	0.038	0.0	0.004	
12	Total nitrogen	M	OTH	Hach Lange Test Kits	3753.0	4150.34	0.0	397.34	
76	Total organic carbon (TOC) (as total C or COD/3)	E	ESTIMATE	EPA WWTP Tool V2.0	9933.5	10967.2	0.0	1033.7	
13	Total phosphorus	M	OTH	Hach Lange Test Kits	140.0	247.11	0.0	107.11	
57	Trichloroethylene	E	ESTIMATE	EPA WWTP Tool V2.0	0.022	0.024	0.0	0.002	
77	Trifluralin	E	ESTIMATE	EPA WWTP Tool V2.0	0.0	0.0	0.0	0.0	
75	Triphenyltin and compounds	E	ESTIMATE	EPA WWTP Tool V2.0	0.001	0.001	0.0	0.0	
60	Vinyl chloride	E	ESTIMATE	EPA WWTP Tool V2.0	0.014	0.016	0.0	0.002	
78	Xylenes	E	ESTIMATE	EPA WWTP Tool V2.0	0.081	0.089	0.0	0.008	
24	Zinc and compounds (as Zn)	E	ESTIMATE	EPA WWTP Tool V2.0	10.266	11.334	0.0	1.068	

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs				
POLLUTANT		Method Used			QUANTITY				

No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	OTH	Hach Lange Test Kits	10.0	732.62	0.0	722.62
303	BOD	M	OTH	Hach Lange Test Kits	2038.0	9069.92	0.0	7031.92
306	COD	M	OTH	Hach Lange Test Kits	6929.0	22107.75	0.0	15178.75
327	Nitrate (as N)	M	OTH	Hach Lange Test Kits	1894.0	3110.21	0.0	1216.21
372	Nitrite (as N)	M	OTH	Hach Lange Test Kits	5.0	16.65	0.0	11.65
332	Ortho-phosphate (as PO4)	M	OTH	Hach Lange Test Kits	92.0	195.43	0.0	103.43
240	Suspended Solids	M	OTH	Standard Methods	3056.0	10867.54	0.0	7811.54

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : D0124 | Facility Name : Athboy Waste Water Treatment Plant | Filename : D0124_2010.xls | Return Year : 2010 |

23/08/2011 16:01

Please enter all quantities on this sheet in Tonnes

3

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non-Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	19 08 01	No	7.2	screenings sludges from treatment of urban waste	D5	E	Volume Calculation	Offsite in Ireland	Panda Waste Services,WCP/DC/09/1188/01	Rathdrinagh,Beauparc Business Park,Navan,Co.Meath,Ireland		
Within the Country	19 08 05	No	128.0	water	R10	E	Volume Calculation	Offsite in Ireland	Boyne Waste Services,WCPMH/009/21	Rathdrinagh,Beauparc,Navan,Co.Meath,Ireland		



* Select a row by double-clicking the Description of Waste then click the delete button

SECTION 7

Approval

SECTION 7.0:**APPROVAL**

As required under EPA Waste Water Discharge Licensing, I certify that the above report is true and accurate.

Prepared By:	Enda Collins Environmental Officer, Environment and Water Services Dept. Meath County Council	Signed: 
		Date: 26/08/11
Approved By:	Gerry Boyle Senior Engineer, Environment and Water Services Dept. Meath County Council	Signed: 
		Date: 26 th Aug. 2011