

### Agglomerarea Buhusi- analiza apei uzate

Parameter	Date	26.5.10	27.5.10	Average
pH	-	10700.0	7.5	5353.8
COD	mg/l	402	352	377
BOD <sub>5</sub>	mg/l	0	0	0
TSS	mg/l	235	231	233
N	mg/l	0	0	0
Flow	m <sup>3</sup> /d	862	1,220	1,041

Parameter	Date	26.5.10	27.5.10	Average
COD	kg/d	346	429	388
BOD <sub>5</sub>	kg/d	0	0	0
TSS	kg/d	202	282	242
N	kg/d	0	0	0

#### Specific Pollution Loads

Parameter	Theoretical Design Value	Measured value	% of theoretical value
	g/p.e./d	g/p.e./d	%
COD	120	102	85
BOD <sub>5</sub>	60	0	0
TSS	70	64	91
N	11	0	0
P	1.80	-	-

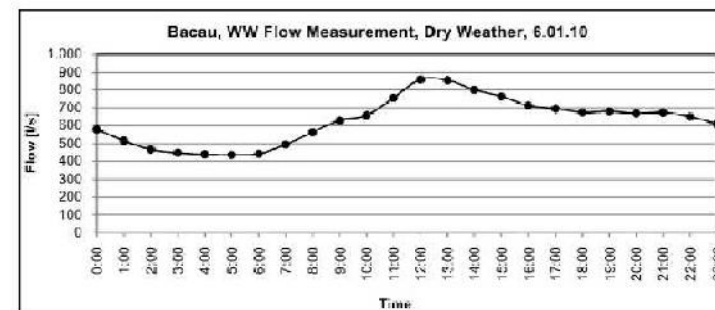
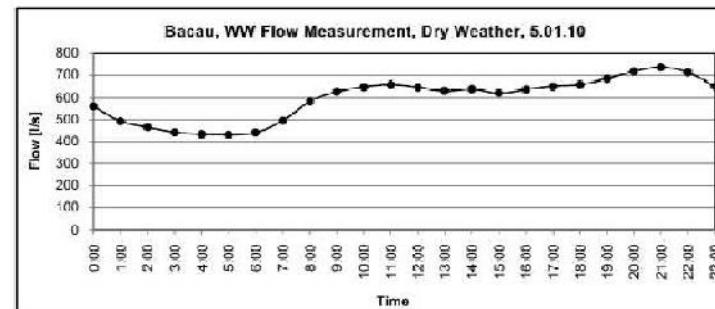
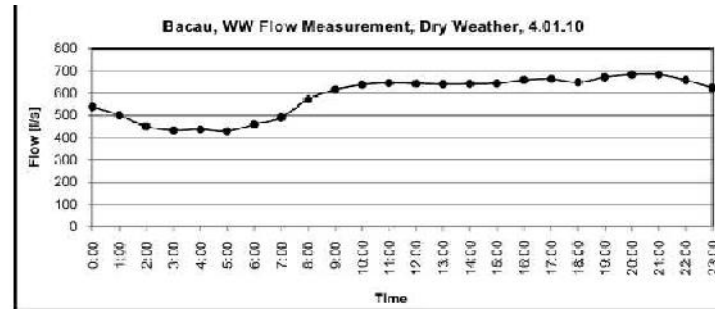
Parameter	Concentration	Load
	mg/l	kg/d
COD	377	388
BOD <sub>5</sub>	0	0
TSS	233	242
N	0	0
P	-	-

Masuratori ale debitelor de apa uzata in Bacau- vreme uscata

Date	04.01.10	05.01.10	06.01.10
Time	Flow [l/s]	Flow [l/s]	Flow [l/s]
0:00	538	561	580
1:00	501	495	518
2:00	451	466	468
3:00	434	443	447
4:00	438	436	430
5:00	431	432	435
6:00	460	442	441
7:00	491	496	495
8:00	573	583	569
9:00	616	627	629
10:00	639	648	657
11:00	647	656	755
12:00	644	646	760
13:00	642	630	858
14:00	643	639	801
15:00	644	621	764
16:00	660	637	713
17:00	664	651	796
18:00	649	659	675
19:00	673	686	680
20:00	685	718	668
21:00	684	736	679
22:00	659	714	649
23:00	624	651	608

Min	431	432	435
Max	685	736	860
Average	597	606	629

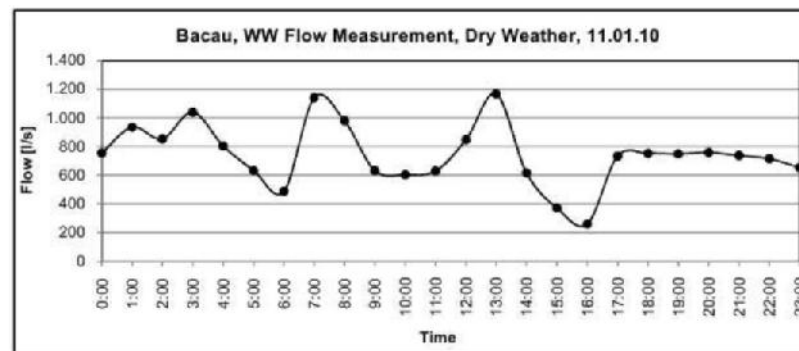
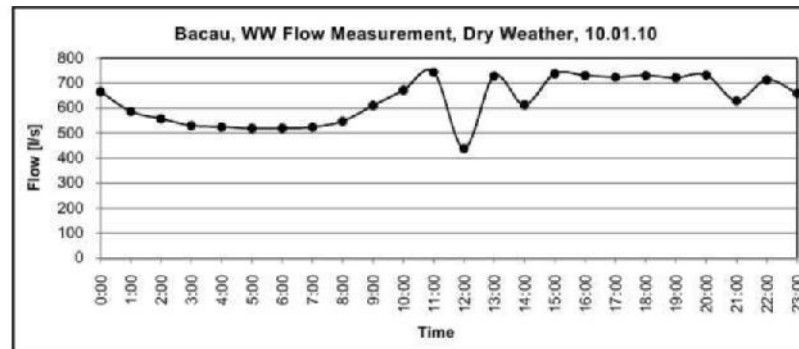
Total m <sup>3</sup> /d	60,724	61,372	64,293
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Date	10.01.10	11.01.10
Time	Flow [l/s]	Flow [l/s]
0:00	665	756
1:00	586	935
2:00	557	853
3:00	530	1,040
4:00	524	805
5:00	519	633
6:00	520	487
7:00	523	1,141
8:00	547	980
9:00	609	632
10:00	671	604
11:00	743	630
12:00	439	848
13:00	727	1,168
14:00	613	616
15:00	737	370
16:00	730	259
17:00	723	734
18:00	729	752
19:00	721	748
20:00	732	758
21:00	628	738
22:00	712	714
23:00	659	653

Min	439	259
Max	743	1,168
Average	631	744

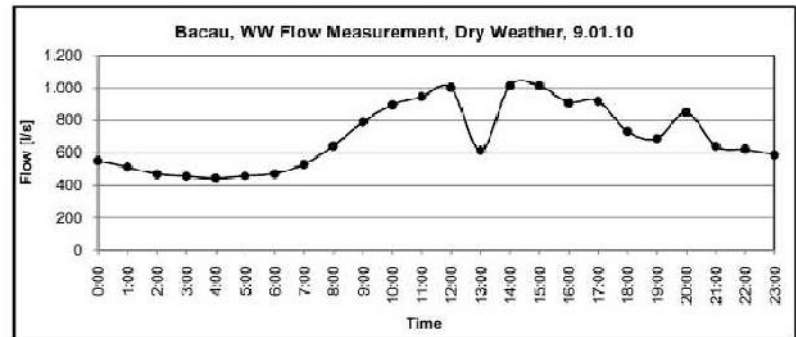
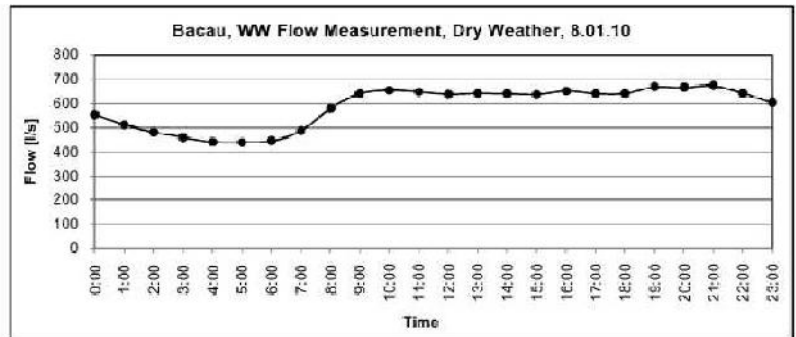
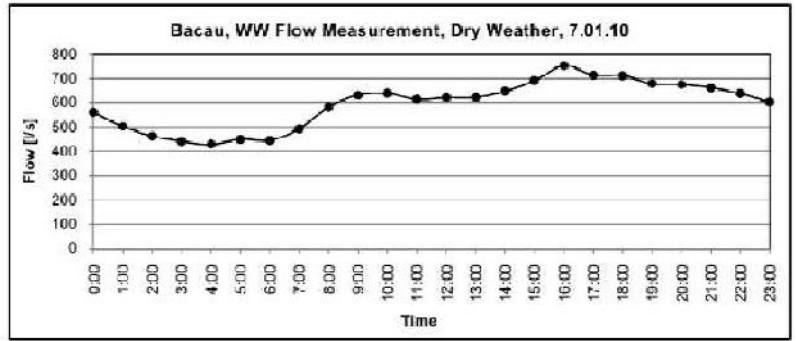
Total m <sup>3</sup> /d	54,513	64,271
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Date	07.01.10	08.01.10	09.01.10
Time	Flow [l/s]	Flow [l/s]	Flow [l/s]
0:00	561	554	551
1:00	503	514	512
2:00	463	481	471
3:00	442	461	456
4:00	430	442	444
5:00	450	440	457
6:00	446	446	473
7:00	493	497	532
8:00	583	590	643
9:00	633	640	790
10:00	639	655	865
11:00	615	618	946
12:00	622	638	1,001
13:00	623	641	613
14:00	648	640	1,012
15:00	691	637	1,013
16:00	753	652	912
17:00	715	641	921
18:00	712	641	733
19:00	679	659	688
20:00	675	657	850
21:00	663	674	641
22:00	638	642	621
23:00	604	605	589

Min	430	440	444
Max	753	674	1,013
Average	595	597	660

Total m <sup>3</sup> /d	51,415	50,746	60,366
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Aglomerarea Bacau- determinarea infiltratiilor

Date	-	01.01.10	02.01.10	03.01.10	04.01.10	05.01.10	06.01.10	07.01.10	08.01.10	09.01.10	10.01.10	11.01.10	Average
Connected Capita	cap	143,100	143,100	143,100	143,100	143,100	143,100	143,100	143,100	143,100	143,100	143,100	<b>143,100</b>
Minimum Sewage Night Flow per Capita <sup>1)</sup>	l/s/1000 cap	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	<b>0.60</b>
Minimum Night Flow	l/s	482	523	435	431	432	435	430	440	444	439	259	<b>456</b>
Minimum Sewage Night Flow	l/s	86	86	86	86	86	86	86	86	86	86	86	<b>86</b>
Infiltration Flow	l/s	396	437	349	345	346	350	344	355	358	353	173	<b>370</b>
Daily Infiltration Flow	m <sup>3</sup> /d	34,212	37,754	30,173	29,787	29,918	30,207	29,722	30,631	30,946	30,506	14,936	<b>32,009</b>
Daily Wastewater Flow incl. Infiltration	m <sup>3</sup> /d	52,232	54,730	48,534	50,724	51,372	54,233	51,415	50,746	60,356	54,513	64,271	<b>51,971</b>
Daily Sewage Flow	m <sup>3</sup> /d	18,020	16,976	18,361	20,937	21,454	24,026	21,692	20,115	29,410	24,007	49,335	<b>19,962</b>
Daily specific Sewage Flow	l/cap/d	126	119	128	146	150	168	152	141	206	168	345	<b>139</b>
Infiltration as Surplus on Sewage Flow	%	190	222	164	142	139	126	137	152	105	127	30	<b>164</b>
Total level of infiltration (BDO Table)	%	65	69	62	59	58	56	58	60	51	56	23	<b>62</b>
Infiltration per metre existing sewer network	l/m/d	248	274	219	216	217	219	215	222	224	221	108	<b>232</b>

<sup>1)</sup> < 5,000 cap.: 0.2 l/s/1000 cap; < 100,000 cap.: 0.3 l/s/1000 cap; > 100,000 cap.: 0.6 l/s/1000 cap.

Aglomerarea Bacau- rezultatele buletinelor de analiza

Parameter	Date	Jan. 08	Feb. 08	Mrz. 08	Apr. 08	Mai. 08	Jun. 08	Jul. 08	Aug. 08	Sep. 08	Okt. 08	Nov. 08	Dez. 08	Average
<b>pH</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>COD</b>	mg/l	283	268	257	272	242	245	258	247	249	242	254	281	258
<b>BOD<sub>5</sub></b>	mg/l	80	86	83	83	83	84	82	83	86	87	85	89	84
<b>TSS</b>	mg/l	166	164	184	145	130	135	131	131	129	135	137	146	144
<b>N</b>	mg/l	24.5	22.8	25.8	26.6	28.0	27.8	26.2	25.0	27.3	25.9	27.2	25.0	26.0
<b>P</b>	mg/l	2.8	2.7	2.6	2.6	2.6	2.6	2.9	2.7	3.0	2.9	3.0	2.7	2.8
<b>Flow</b>	m <sup>3</sup> /d	73,440	73,526	72,490	74,650	67,306	72,576	75,514	66,917	63,936	59,616	63,158	55,728	68,238

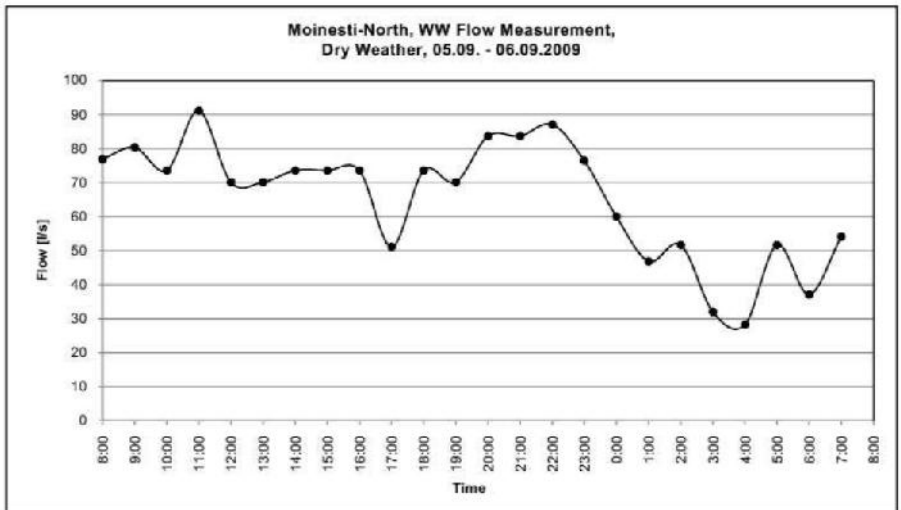
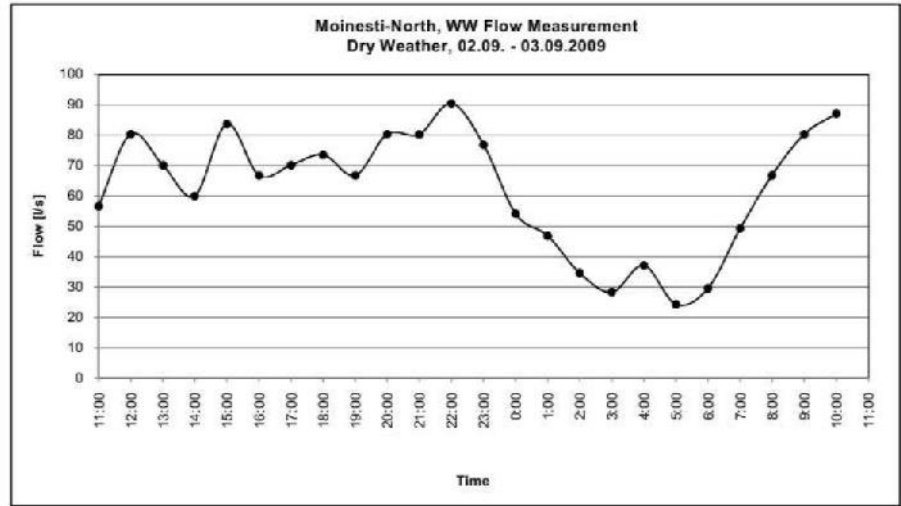
Parameter	Date	Jan. 08	Feb. 08	Mrz. 08	Apr. 08	Mai. 08	Jun. 08	Jul. 08	Aug. 08	Sep. 08	Okt. 08	Nov. 08	Dez. 08	Average
<b>COD</b>	kg/d	20,805	19,710	18,618	20,332	16,297	17,747	19,468	16,559	15,907	14,404	16,057	15,633	17,628
<b>BOD<sub>5</sub></b>	kg/d	5,849	6,326	6,026	6,216	5,556	6,117	6,170	5,572	5,496	5,173	5,352	4,979	5,736
<b>TSS</b>	kg/d	12,174	12,076	13,373	10,854	8,719	9,803	9,870	8,794	8,216	8,056	8,638	8,129	9,892
<b>N</b>	kg/d	1,799	1,676	1,852	1,986	1,884	2,017	1,978	1,674	1,746	1,542	1,715	1,392	1,772
<b>P</b>	kg/d	208	196	188	196	174	192	222	179	193	174	191	150	188

**Aglomerarea Moinesti**

Date	02.09.09	05.09.09
Time	Flow [l/s]	Flow [l/s]
11:00	57	77
12:00	80	80
13:00	70	74
14:00	60	91
15:00	84	70
16:00	67	70
17:00	70	74
18:00	74	74
19:00	67	74
20:00	80	51
21:00	80	74
22:00	91	70
23:00	77	84
0:00	54	84
1:00	47	87
2:00	35	77
3:00	28	60
4:00	37	47
5:00	24	52
6:00	30	32
7:00	49	28
8:00	67	52
9:00	80	37
10:00	87	54

Min	24	28
Max	91	91
Average	62	65

Total m <sup>3</sup> /d	5,380	62
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Date	-	02.09.09	05.09.09	Average
Connected Capita	cap	16,060	16,060	16,060
Minimum Sewage Night Flow per Capita <sup>1)</sup>	l/s/1000 cap	0.25	0.25	0.25
Minimum Night Flow	l/s	24	26	26
Minimum Sewage Night Flow	l/s	4	4	4
Infiltration Flow	l/s	20	24	22
Daily Infiltration Flow	m <sup>3</sup> /d	1,753	2,098	1,925
Daily Wastewater Flow incl. Infiltration	m <sup>3</sup> /d	5,380	5,654	5,517
Daily Sewage Flow	m <sup>3</sup> /d	3,627	3,556	3,591
Infiltration as Surplus on Sewage Flow	%	48	59	54
Daily specific Sewage Flow	l/cap/d	226	221	224

Parameter	Date	29.01.2009	23.02.2009	09.03.2009	13.04.2009	25.06.2009	09.07.2009	27.08.2009	Average
pH	-								#DIV/0!
COD	mg/l	225	233	228	270	260	244	234	242
BOD <sub>5</sub>	mg/l	168	156	167	152	163	160	168	162
TSS	mg/l		72	92	57	92	96	62	79
N	mg/l	16.2	17.0	16.2	16.4	16.0	17.1	16.9	16.5
P	mg/l								
Flow	m <sup>3</sup> /d	5,593	5,193	5,817	5,381	5,967	5,147	5,681	5,540

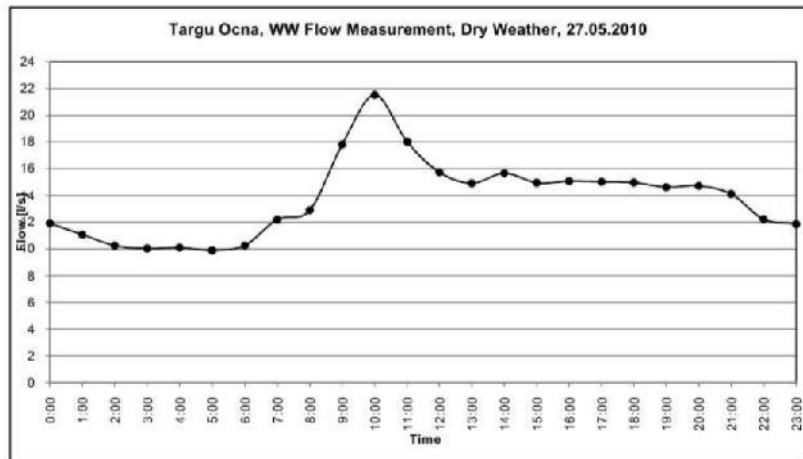
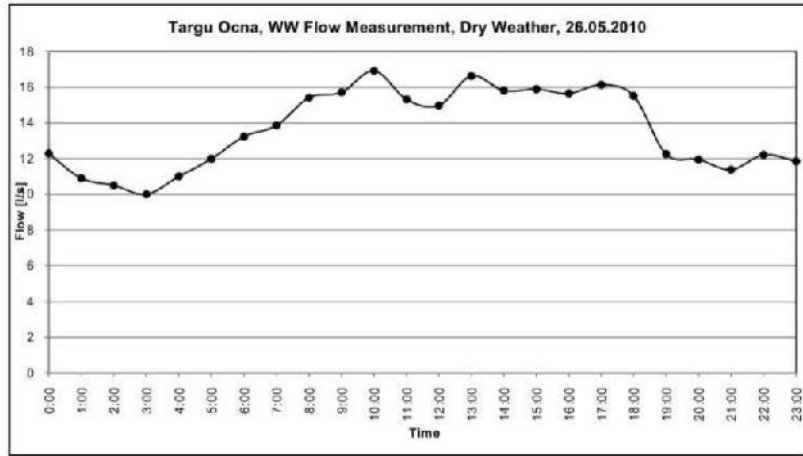
Parameter	Date	29.01.2009	23.02.2009	09.03.2009	13.04.2009	25.06.2009	09.07.2009	27.08.2009	Average
COD	kg/d	1,266	1,209	1,325	1,455	1,551	1,256	1,329	1,340
BOD <sub>5</sub>	kg/d	940	810	971	818	973	824	954	899
TSS	kg/d	0	374	535	307	549	494	352	373
N	kg/d	91	88	94	88	95	88	96	92
P	kg/d	0	0	0	0	0	0	0	0

**Agglomerarea Targu Ocna**

Date	26.05.10	27.05.10
Time	Flow [l/s]	Flow [l/s]
0:00	12	12
1:00	11	11
2:00	11	10
3:00	10	10
4:00	11	10
5:00	12	10
6:00	13	10
7:00	14	12
8:00	15	13
9:00	16	18
10:00	17	22
11:00	15	18
12:00	15	16
13:00	17	15
14:00	16	16
15:00	16	15
16:00	16	15
17:00	16	15
18:00	16	15
19:00	12	16
20:00	12	15
21:00	11	14
22:00	12	12
23:00	12	12

Min	10	10
Max	17	22
Average	14	14

Total m <sup>3</sup> /d	1,179	1,188
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Date	-	26.05.10	27.05.10	Average
Connected Capita	cap	6,600	6,600	<b>6,600</b>
Minimum Sewage Night Flow per Capita <sup>1)</sup>	l/s/1000 cap	0.10	0.10	<b>0.10</b>
Minimum Night Flow	l/s	10	10	<b>10</b>
Minimum Sewage Night Flow	l/s	0.7	0.7	<b>0.7</b>
Infiltration Flow	l/s	9	9	<b>9</b>
Daily Infiltration Flow	m <sup>3</sup> /d	807	798	<b>802</b>
Daily Wastewater Flow incl. Infiltration	m <sup>3</sup> /d	1,179	1,188	<b>1,183</b>
Daily Sewage Flow	m <sup>3</sup> /d	372	390	<b>381</b>
Daily specific Sewage Flow	l/cap/d	56	59	<b>58</b>
Infiltration as Surplus on Sewage Flow	%	217	205	<b>211</b>
Total level of infiltration (BDO Table)	%	68	67	<b>68</b>
Infiltration per metre existing sewer network	l/m/d	52	52	<b>52</b>

<sup>1)</sup> < 5,000 cap.: 0.2 l/s/1000 cap; < 100,000 cap.: 0.3 l/s/1000 cap; > 100,000 cap.: 0.6 l/s/1000 cap.

Parameter	Date	Jan. 09	Feb. 09	Mrz. 09	Apr. 09	Mai. 09	Jun. 09	Jul. 09	Aug. 09	Sep. 09	Okt. 09	Nov. 09	Dez. 09	Average
pH	-	6.5	6.6	6.6	6.6	6.5	6.5	6.6	6.6	6.6	6.5	6.5	6.6	6.6
COD	mg/l	461	462	445	425	431	442	437	460	462	425	448	452	446
BOD <sub>5</sub>	mg/l	289	291	290	288	292	294	290	286	292	288	293	295	291
TSS	mg/l	397	401	418	462	421	435	457	431	463	431	442	508	439
N	mg/l	58.0	56.0	61.0	65.0	62.0	57.0	60.0	59.0	56.0	60.0	62.0	65.0	60
P	mg/l													
Flow	m <sup>3</sup> /d	1,250	1,398	1,403	1,187	1,312	1,514	1,403	1,293	1,470	1,267	1,383	1,451	1,361

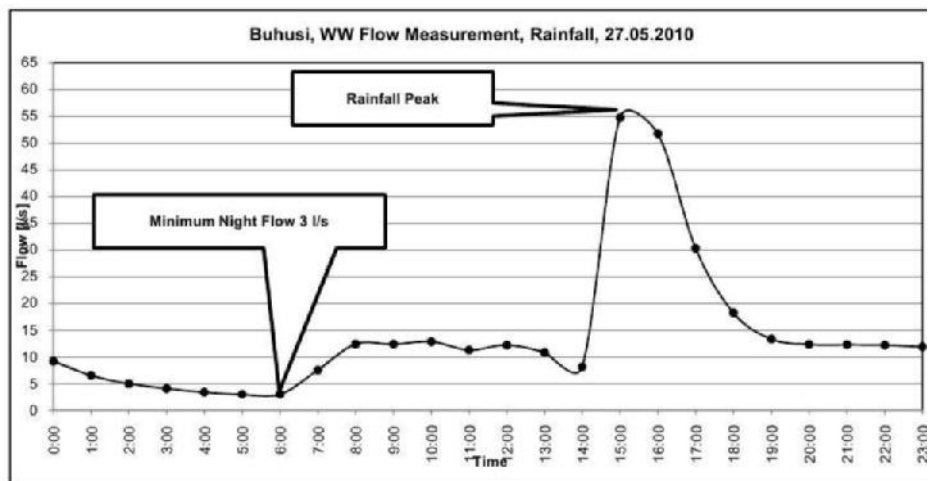
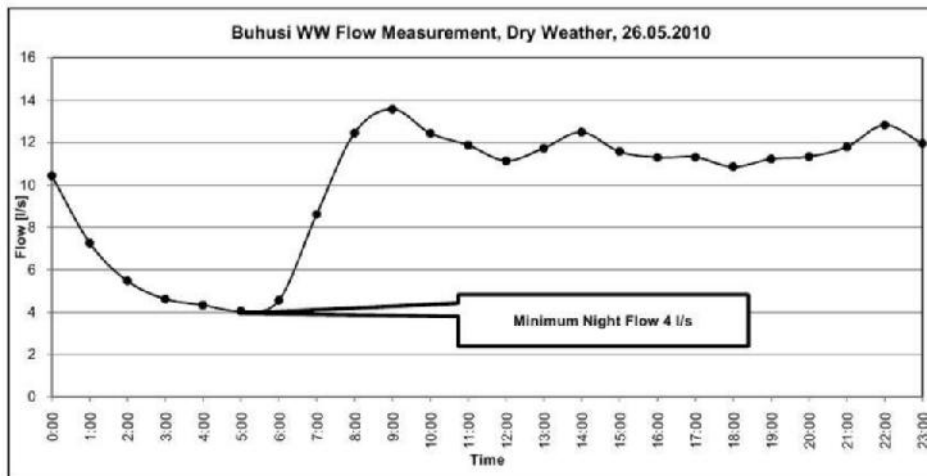
Parameter	Date	Jan. 09	Feb. 09	Mrz. 09	Apr. 09	Mai. 09	Jun. 09	Jul. 09	Aug. 09	Sep. 09	Okt. 09	Nov. 09	Dez. 09	Average
COD	kg/d	576	646	624	504	565	669	613	595	679	538	620	656	611
BOD <sub>5</sub>	kg/d	361	407	407	342	383	445	407	370	429	365	405	428	384
TSS	kg/d	496	561	586	548	552	659	641	557	681	546	611	737	528
N	kg/d	73	78	86	77	81	86	84	76	82	76	86	94	75
P	kg/d	0	0	0	0	0	0	0	0	0	0	0	0	0

**Aglomerarea Buhusi**

Date	26.05.10	27.05.10
Time	Flow [l/s]	10,700.00
0:00	10	9
1:00	7	7
2:00	5	5
3:00	5	4
4:00	4	3
5:00	4	3
6:00	5	3
7:00	9	8
8:00	12	12
9:00	14	12
10:00	12	13
11:00	12	11
12:00	11	12
13:00	12	11
14:00	12	8
15:00	12	55
16:00	11	52
17:00	11	30
18:00	11	18
19:00	11	13
20:00	11	12
21:00	12	12
22:00	13	12
23:00	12	12

Min	4	3
Max	14	55
Average	10	14

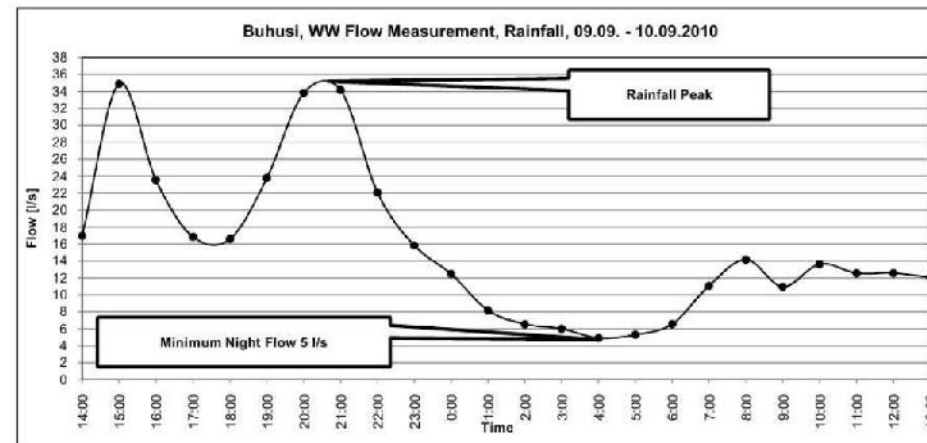
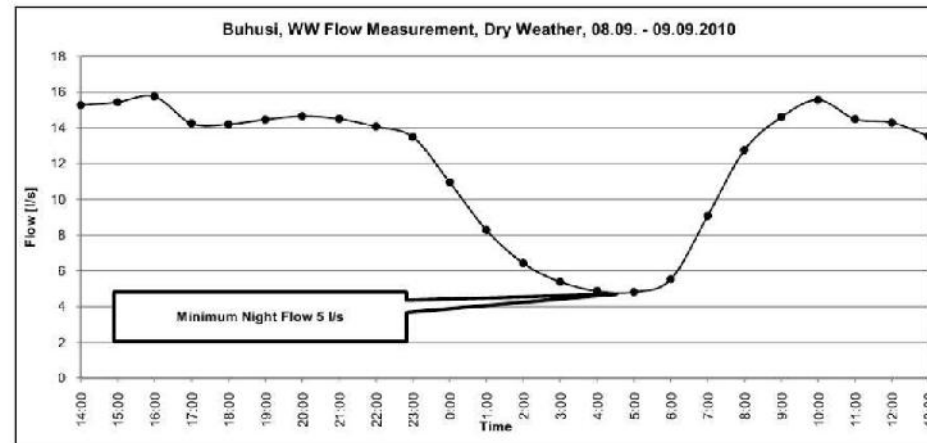
Total m <sup>3</sup> /d	862	1,220
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Date	08.09.10	09.09.10
Time	Flow [l/s]	Flow [l/s]
14:00	15	17
15:00	15	35
16:00	16	24
17:00	14	17
18:00	14	17
19:00	14	24
20:00	15	34
21:00	14	34
22:00	14	22
23:00	13	16
0:00	11	12
1:00	8	8
2:00	6	7
3:00	5	6
4:00	5	5
5:00	5	5
6:00	6	7
7:00	9	11
8:00	13	14
9:00	15	11
10:00	16	14
11:00	14	13
12:00	14	13
13:00	14	12

Min	5	5
Max	16	35
Average	12	16

Total m <sup>3</sup> /d	1,032	1,351
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Date	-	26.05.10	27.05.10	08.09.10	09.09.10	Average
Connected Capita	cap	10,700	10,700	10,700	10,700	<b>10,700</b>
Minimum Sewage Night Flow per Capita <sup>1)</sup>	l/s/1000 cap	0.10	0.10	0.10	0.10	<b>0.10</b>
Minimum Night Flow	l/s	4	3	5	5	<b>4</b>
Minimum Sewage Night Flow	l/s	1	1	1	1	<b>1</b>
Infiltration Flow	l/s	3	2	4	4	<b>3</b>
Daily Infiltration Flow	m <sup>3</sup> /d	258	166	324	331	<b>270</b>
Daily Wastewater Flow incl. Infiltration	m <sup>3</sup> /d	862	816	1,032	903	<b>903</b>
Daily Sewage Flow	m <sup>3</sup> /d	603	743	707	572	<b>656</b>
Daily specific Sewage Flow	l/cap/d	56	69	66	53	<b>61</b>
Infiltration as Surplus on Sewage Flow	%	43	22	46	58	<b>42</b>
Total level of infiltration (BDO Table)	%	30	9	31	37	<b>27</b>
Infiltration per metre existing sewer network	l/m/d	10	7	13	13	<b>11</b>

<sup>1)</sup> < 5,000 cap.: 0.2 l/s/1000 cap; < 100,000 cap.: 0.3 l/s/1000 cap; > 100,000 cap.: 0.6 l/s/1000 cap.