

**STATUTE  
on the monitoring of natural environment  
on the Sap-Budapest Danube section**

**A N N E X 2**

Monitoring sites, objects and monitored parameters  
for the Republic of Hungary

August 2008

## Surface Water Levels and Discharges Observation Sites

No. Object	Object Name	Location	EOV X	EOV Y	H	Q
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>						
3536	000001	Duna, Rajka	297170,00	515680,00	•	•
3720	004515	Duna, Doborgaz	294120,00	523330,00	•	•
2547	000002	Duna, Dunaremete	283030,00	531550,00	•	-
3358	000005	Duna, Komárom	267810,00	579960,00	•	•
3532	000017	Mosoni-Duna, Mecser	273950,00	532760,00	•	•
3359	000018	Mosoni-Duna, Bácsa	265500,00	547110,00	•	-
3366	003871	Mosoni-Duna, VI. sluice, headwater	295550,00	515100,00	•	-
	003872	Mosoni-Duna, VI. sluice, tailwater	295550,00	515100,00	•	•
3360	003873	Mosoni-Duna, I. sluice, headwater	298180,00	513420,00	•	•
	003874	Mosoni-Duna, I. sluice, tailwater	298110,00	513330,00	•	-
3362	003875	Seepage canal, II. sluice, headwater	298110,00	513220,00	•	•
	003876	Seepage canal, II. sluice, tailwater	298080,00	513260,00	•	-
	003939	Duna, Dunakiliti barrage, underwater weir headwater	295340,00	521260,00	•	•
3364	003940	Seepage canal, V. sluice, headwater	294860,00	519490,00	•	•
	003941	Seepage canal, V. sluice, tailwater	294930,00	519600,00	•	-
3535	004516	Floodplain side river arm system, Helena	295280,00	519050,00	•	•
	110092	Protected side, VII. sluice, headwater	294230,00	517930,00		•
3368	110106	Zátonyi Duna, Dunakiliti, Gyümölcsös úti sluice, headwater	293430,00	519610,00	•	-
	110144	Zátonyi Duna, Dunakiliti, Gyümölcsös úti sluice, tailwater	293760,00	519910,00	•	-
	110161	Duna, Dunakiliti barrage, tailwater	295170,00	521710,00	•	-
4355	110113	Floodplain side river arm system, Z-1, headwater (Tejfalusi weir)	293220,00	521720,00	•	-
4356	110114	Floodplain side river arm system, B-2, tailwater (Dunaszigeti weir)	291430,00	524050,00	•	•
4357	110115	Floodplain side river arm system, B-2, headwater (Dunaszigeti weir)	291490,00	524040,00	•	-
4358	110116	Floodplain side river arm system, B-3, tailwater (Cikolai weir)	289880,00	525375,00	•	-
4359	110117	Floodplain side river arm system, B-3, headwater (Cikolai weir)	289840,00	525400,00	•	-
4360	110118	Floodplain side river arm system, B-4, tailwater (Köhídi closure)	288440,00	526745,00	•	•
4361	110119	Floodplain side river arm system, B-4, headwater (Köhídi closure)	288520,00	526780,00	•	-
4362	110127	Floodplain side river arm system, Doborgaz-15	292320,00	522700,00	•	-
4377	110128	Floodplain side river arm system, B-5, tailwater (Burján weir)	286830,00	525900,00	•	-
4378	110129	Floodplain side river arm system, B-5, headwater (Burján weir)	286810,00	525880,00	•	-
4364	110131	Floodplain side river arm system, B-9, tailwater (Hatvanasi weir)	281180,00	533410,00	•	-
4365	110132	Floodplain side river arm system, B-	279850,00	534330,00	•	•

		11, tailwater (Halrekesztői closure)				
4366	110133	Floodplain side river arm system, B-11, headwater (Halrekesztői closure)	279530,00	534330,00	•	-
4367	110138	Floodplain side river arm system, B-7, headwater (Tábori closure)	285040,00	529010,00	•	-
	110139	Floodplain side river arm system, B-7, tailwater (tábori closure)	285010,00	529020,00	•	•
4368	110141	Floodplain side river arm system, Z-12, tailwater (3-as újsziget)	279940,00	535880,00	•	-
4369	110142	Floodplain side river arm system, Z-12, headwater (3-as újsziget)	279960,00	535860,00	•	-
4370	110152	Floodplain side river arm system, Z-8, headwater	290230,00	526030,00	•	-
4371	110153	Floodplain side river arm system, Z-8, tailwater	290200,00	526054,00	•	-
4379	110155	Floodplain side river arm system, Z-10, headwater	281234,00	535550,00	•	-
4372	110157	Floodplain side river arm system, Gatyai closure, headwater	279275,00	537148,00	•	-
4373	110162	Floodplain side river arm system, B-6, headwater	287230,00	528230,00	•	-
4373	110170	Floodplain side river arm system, Z-6, headwater	289750,00	525920,00	•	-
4375	110171	Floodplain side river arm system, Z-6, tailwater	289740,00	525930,00	•	-
4376	110198	Floodplain side river arm system, B-8, headwater	283173,00	530878,00	•	-

No. Object	Object Name	Location	EOV X	EOV Y	H	Q
<b>Objects beyond the Joint Monitoring according to the Agreement of 1995</b>						
3537	003944	Duna, Vámosszabadi	272550,00	545950,00	•	•
	000004	Duna, Gönyű	266922,00	559061,00	•	-
	000008	Duna, Esztergom	272540,00	626560,00	•	•
	010012	Duna, Szob	274600,00	636200,00	•	-
	010013	Duna, Nagymaros	271800,00	643500,00	•	•
	010017	Duna, Budapest – Vigadó tér	239000,00	650000,00	•	•
	000046	Általér, Tata	258290,00	594920,00	•	•
	000047	Kenyérmezei patak, Kenyérmező	266560,00	625190,00	•	•
	022011	Ipoly, Ipolytölgyes	286840,00	628880,00	•	•

### Observed parameters:

#### **H – Water level**

- Daily average or actual water level

#### **Q - Discharge**

- Daily average or actual measured/calculated water discharge

**Frequency of observation:**

- Water level and discharges
- daily

Data exchange:

- operational data: monthly
- other data annually, or at request

## Surface Water Quality Observation Sites

No. Object	Watercourse	Location	EOV X	EOV Y	A	B
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>						
3536	Duna	Rajka	297100,00	515650,00	•	-
3533	Duna	Upstream of 1843. rkm	295370,00	521260,00	•	•
3534	Duna	Downstream of 1843. rkm.	295370,00	521260,00	•	•
2547	Duna	Dunaremete	531550,00	283030,00	•	-
3537	Duna	Medve	273100,00	545420,00	•	-
3360	Mosoni-Duna	Rajka, I. sluice	296550,00	514800,00	•	-
3543	Mosoni-Duna	Vének	266460,00	553470,00	•	•
3362	Seepage canal	Rajka, II. sluice	296600,00	514300,00	•	•
3535	Floodplain side river arm system	Helena	295280,00	519050,00	•	•
3542	Floodplain side river arm system	Cikolasziget	288490,00	526810,00	•	•
3541	Floodplain side river arm system	Ásványráró	278220,00	535200,00	•	•

No. Objects	Watercourse	Location	EOV X	EOV Y	A	B
<b>Objects beyond the Joint Monitoring according to the Agreement of 1995</b>						
3358	Duna	Komárom	267800,00	581400,00	•	-
(251)	Duna	Szob	274500,00	635200,00	•	-
	Duna	Vác	270611,00	655530,00		
3375	Duna	Budapest, 1657. fkm	249500,00	652000,00	•	-

### Observed parameters:

#### A. Physical-Chemical and Hydrobiological parameters

Water temperature, pH, Conductivity, dissolved oxygen,  
 $\text{NH}_4^+$ ,  $\text{NO}_2^-$ ,  $\text{NO}_3^-$ ,  $\text{PO}_4^{3-}$ , total N, total P, total suspended solids  
 Biological Oxygen Demand ( $\text{BOD}_5$ ), Chemical Oxygen Demand ( $\text{COD}_{\text{Mn}}$ ),  
 Chlorofil-a, TOC, Extractables UV,  
 Saprobic index,  
 Hg, Zn, As, Pb, Cd, Cu, Cr, Ni.  
 Hydrobiology according to the WFD:  
 - phytoplankton  
 - macrozoobentos  
 - phytobentos  
 - fish

At selected observation sites (e.g. Danube - Bratislava, Rajka, Medve, Szob, Mosoni-Danube – Dunacun seepage channel, other tributaries, etc.) other parameters:

$\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ , Mn, Fe,  $\text{HCO}_3^-$ ,  $\text{Cl}^-$ ,  $\text{SO}_4^{2-}$ , dissolved solids.

#### B. Chemical parameters of sediments

Heavy metals (As, Ni, Zn, Pb, Hg, Cu, Cd, Cr),  
Nutrients (total P, total N),  
Organic micro-pollutants (PAH),

**Frequency of sampling and analysis:**

- physico-chemical parameters – 12/year,
- phytoplankton – 6/year (composition, abundance, biomass),
- makrozoobentos – 2/year (composition and abundance),
- phytobentos (makrophytons) – 1/year, phytobentos – 2/year (composition and abundance),
- fish – 1/6 years (composition and abundance), first time in 2008-ban
- sediments – 1/year, at low water level

**Groundwater Level Observation Objects**

No. Objects	Object Name	Location	EOV X	EOV Y	Z	Data type
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>						
	2635	Magyarkimle	278642,01	528138,53	118,79	Automatic
	2636	Magyarkimle	277835,64	527518,41	116,40	Automatic
	1019	Gyarlódamér	272062,05	540823,05	113,12	Automatic
	2659	Vámoszabadi	272630,57	541222,28	113,11	Automatic
	2666	Györladamér	268623,81	538219,93	113,96	Automatic
	2681	Hegyeshalom	293146,97	506765,17	129,53	Automatic
	2684	Rajka	296564,43	510307,07	132,49	Automatic
	2645	Bezenye	289672,96	509555,96	126,68	Automatic
	2648	Bezenye	293128,72	513539,59	128,58	Automatic
	2640	Dunakiliti	292678,98	521722,10	124,50	Automatic
	2600	Feketeerdő	289121,08	517654,72	122,90	Automatic
	2611	Feketeerdő	288118,25	516484,62	123,12	Automatic
	2615	Feketeerdő	290459,85	519180,58	124,88	Automatic
	2617	Feketeerdő	291287,01	520278,74	124,76	Automatic
	2609	Cikolasziget	287623,45	526023,41	120,68	Automatic
	2610	Cikolasziget	288070,91	526316,68	121,62	Automatic
	2605	Halászi	285683,25	523474,78	122,10	Automatic
	2633	Dunaremete	281478,14	530011,28	117,71	Automatic
	1009	Lébény	269288,06	527938,47	116,90	Automatic
	1020	Bezenye	292522,01	512806,81	126,46	Automatic
	1031	Hegyeshalom	288132,80	507495,05	128,06	Automatic
	2698	Hegyeshalom	290069,53	504278,02	129,29	Automatic
	1066	Halászi	284759,97	522013,00	122,31	Automatic
	1075	Tejfalusziget	292221,77	521175,06	124,40	Automatic
	1080	Bezenye	293901,25	514370,93	126,47	Automatic
	2695	Győr-Kisbácsa	264786,56	544184,55	113,00	Automatic
	2697	Győr-Kisbácsa	265562,56	544822,16	111,54	Automatic
	2693	Rajka	291814,02	505320,32	129,32	Automatic
	2699	Rajka	294427,36	508026,22	129,80	Automatic
	2700	Rajka	297459,98	511068,96	131,10	Automatic
	2727	Rajka	297597,51	511642,44	129,26	Automatic
	3080	Mosonmagyaróvár	284457,93	514044,84	122,76	Automatic
	3119	Györladamér	270793,31	539495,74	113,81	Automatic
	3121	Ásványráró	274861,20	535621,72	114,27	Automatic
	3122	Halászi	286208,36	523741,78	122,11	Automatic
	4189	Dunakiliti	293677,19	517989,40	126,36	Automatic
	4501	Kisbodak	284374,37	527650,03	120,12	Automatic
	4502	Ásványráró	278382,53	534343,95	116,55	Automatic
	2530	Lébény	271816,77	522184,20	115,48	Automatic
	2540	Hegyeshalom	290783,99	510718,73	126,38	Automatic
	3270	Győr	264020,98	543579,92	112,46	Automatic
	3269	Kisbajcs	268861,40	547611,25	112,81	Automatic
	3268	Dunaremete	282229,59	530703,09	118,06	Automatic
	3265	Rajka	294969,70	515433,00	128,15	Automatic
	3218	Bezenye	294124,23	514843,77	126,69	Automatic
	2621	Ásványráró	276104,01	537264,25	114,75	Automatic

	8500	Rajka	297378,00	515543,00	124,43	Automatic
	9310	Rajka	297521,01	513644,61	129,59	Automatic
	9327	Dunakiliti	295047,07	516210,04	127,35	Automatic
	9330	Dunakiliti	294853,42	515958,45	127,89	Automatic
	9355	Dunakiliti	293989,87	520214,43	129,34	Automatic
	9368	Rajka	295887,49	512455,53	130,06	Automatic
	9379	Rajka	294958,00	512115,00	129,22	Automatic
	9380	Rajka	294155,89	511175,86	126,46	Automatic
	9385	Bezenye	288682,00	513576,00	124,49	Automatic
	9409	Rajka-Dunakiliti	297718,58	513908,98	134,25	Automatic
	9413	Sérfenyősziget	289471,16	522813,54	123,35	Automatic
	9415	Halászi	288341,58	521278,75	123,37	Automatic
	9418	Mosonmagyaróvár	284675,15	517257,10	122,22	Automatic
	9430	Kisbodak	284694,18	528589,63	120,00	-
	9434	Püski	282484,30	525970,70	119,59	Automatic
	9435	Püski	282133,05	524870,74	120,31	Automatic
	9456	Ásványráró	277934,00	535448,00	116,43	Automatic
	9457	Ásványráró	277529,51	534875,81	116,01	Automatic
	9458	Ásványráró	276965,15	533749,60	116,88	Automatic
	9459	Ásványráró	276039,93	533312,96	116,11	Automatic
	9460	Ásványráró	275410,96	532658,26	114,58	Automatic
	9475	Győrzsámoly	271630,00	545301,24	112,66	-
	9478	Győrzsámoly	268583,78	542879,23	112,70	Automatic
	9479	Győrzsámoly	266958,03	541192,66	113,23	Automatic
	9480	Győrzsámoly	267740,70	540516,17	112,91	-
	9484	Vámoszabadi	269988,38	545531,31	112,32	Automatic
	9493	Dunakiliti	294686,15	521184,01	127,99	Automatic
	9494	Dunakiliti	294039,96	522465,81	127,40	Automatic
	9498	Dunasziget	290865,75	524820,68	126,44	Automatic
	9499	Dunasziget	288539,03	527295,29	124,85	Automatic
	9502	Kisbodak	284492,31	530186,00	123,47	Automatic
	9503	Kisbodak	284772,24	529295,78	123,54	Automatic
	9508	Győrzsámoly	274355,52	542767,19	119,72	Automatic
	9536	Püski	283091,39	527107,61	118,65	Automatic
	9546	Kimle	278634,74	522664,25	117,91	Automatic
	9555	Mecsér	273365,25	531733,76	116,39	Automatic
	9558	Mecsér	271850,23	530395,58	116,24	Automatic
	9567	Győrújfalu	264781,04	539900,22	113,36	Automatic
	9972	Dunasziget	290846,98	526472,79	124,48	Automatic
	9974	Dunasziget	290359,15	526142,34	124,63	Automatic
	9975	Dunasziget	289867,86	525314,51	123,98	Automatic
	9978	Ásványráró	280650,99	534196,45	120,00	Automatic
	9979	Ásványráró	279423,74	535594,64	119,44	Automatic
	9980	Ásványráró	280159,99	536520,23	119,74	Automatic
	Dkl-5	Doborgaz	293250,00	524035,00	125,41	Automatic
	Dkl-6	Dunakiliti	295880,00	518855,00	126,49	Automatic
	Dkl-7	Rajka	298255,00	514660,00	129,60	Automatic

No. Object	Object Name	Location	EOV X	EOV Y	Z	Data type
Objects beyond the Joint Monitoring according to the Agreement of 1995						
	1057	Komárom	267905,00	579757,50		
	1068	Naszály	262422,00	590704,50		

	1097	Tát	267184,66	620729,24		
T01164	1731	Vác	277177,26	655716,68	113,71	automatic
T03851	2094	Vác	271093,54	657019,98	117,64	automatic
	3033	Komárom	265759,26	580421,45		
	3273	Tokod	264341,18	619690,68		
	3056	Neszmély	266507,50	600767,50		
	3057	Neszmély	265500,00	597640,00		
	3069	Ács	262634,05	572678,19		
	3115	Dorog	265659,95	625214,59		
	3117	Nagyszentjános	260610,31	565074,11		
	3227	Naszály	253085,00	593342,50		
	3271	Tata	259802,88	595088,49		
T01179	3711	Berneccbaráti	299450,00	640320,00	163,95	automatic
	96011	Gönyű	266771,28	558695,03		-
	96082	Ács	266700,34	564452,29		
	96083	Ács	266700,34	564452,29		
	96091	Ács	264731,59	564486,89		
	96092	Ács	264731,59	564486,89		
	96181	Ács	265322,52	570879,31		
	96271	Komárom	267665,29	577556,02		
	96731	Almásfüzifő	266308,64	588354,98		
	97051	Almásneszmély	265499,59	595216,88		
	97241	Süttő	268314,19	604840,51		
	97411	Nyergesújfalu	267414,78	611247,79		
	97412	Nyergesújfalu	267414,78	611247,79		
	97413	Nyergesújfalu	267414,78	611247,79		
	97521	Nyergesújfalu	268198,17	613950,06		
	97571	Nyergesújfalu	267549,59	616878,11		
	97841	Esztergom	268411,37	623845,19		
	97891	Esztergom	267393,22	625723,70		
	97941	Esztergom	270422,23	625136,25		
	98331	Pilismarót	271531,52	637067,15		
129845	98451	Visegrád	268534,46	641824,87	106,79	automatic
	98481	Dömös	270214,83	639265,12		
129854	98541	Dunabogdány	270423,03	652199,74	106,30	automatic
129856	98561	Dunabogdány	269805,14	650866,97	115,99	automatic
129862	98621	Kisoroszi	272433,70	649559,30	107,33	automatic
129864	98641	Kisoroszi (WFD)	273412,96	650021,91	106,82	automatic
129866	98661	Kisoroszi	274521,97	650062,34	105,80	automatic
129878	98781	Nagymaros	273753,68	644529,22	104,66	manual
129886	98861	Nagymaros	275033,42	645494,79	105,31	automatic
129889	98891	Nagymaros	271541,13	643258,81	110,45	manual
129891	98911	Szob I. kút	273989,17	638825,19	125,10	manual
129894	98941	Zebegény	272519,58	639782,68	109,43	manual
129900	99001	Szob	274939,82	636551,20	110,55	manual
129903	99031	Ipolydamásd	276533,15	634092,65	106,86	manual
129910	99101	Ipolydamásd	277818,81	633405,80	111,63	manual
129913	99131	Letkés	282007,83	629214,41	109,80	manual
129936	99361	Vác	272878,93	653718,44	108,13	automatic

**Observed Parameters:**

**Water level:**

- average daily or actual value

**Frequency of observation:**

**Water level:**

- daily or weakly

## Groundwater Quality Observation Objects

No. Object	Object Name	Location	EOV X	EOV Y	Filtration (m)	
					-from	-to
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>						
Drinking water resources						
3594	DK-I	Dunakiliti	293623	519698		
3596	T-II	Mosonmagyaróvár	287703	517874		
3595	DA-I	Darnózséli	280348	528956		
3592	25-E	Győr – Szőgye	268146	549930		
3593	6-E	Győr – Szőgye	267749	551462		
3591	K-5	Győr – Révfalu	264379	543558		
Observation wells						
3544	9310	Rajka	297521	513644		
3546	9327	Dunakiliti	295047	516210		
3548	9331	Dunakiliti	294564	515588		
3549	9368	Rajka	295887	512455		
3550	9379	Rajka	294958	512115		
3555	9413	Dunasziget	289471	522813		
3559	9418	Mosonmagyaróvár	284675	517257		
3561	9430	Kisbodak	284694	528589		
3563	9435	Arak	282133	524870		
3564	9456	Ásványráró	277934	535448		
3565	9457	Ásványráró	277529	534875		
3566	9458	Ásványráró	277529	534875		
3569	9475	Győrzámoly	271630	545301		
3570	9480	Győrzámoly	267740	540616		
3571	9484	Vémoszabadi	269988	544531		
3572	9536	Püski	283091	527107		

A létesítmény száma	Megjelölés	Helyszíne	EOV X	EOV Y	Szűrőzés (m)	
					-tól	-ig
<b>Objects beyond the Joint Monitoring according to the Agreement of 1995</b>						
DMRV	PV.1	Szob – Hidegrét Vm 1.	275066	635378	3	7
DMRV	PV.2	Zebegény Vm 2.	273816	639003	5	9
DMRV	PV.3	Nagymaros Vm 5.	274645	645366	5	11
DMRV	PV.5	Göd-Alsó Vm 10.	261812	656201		
	PV.7	Dömös	270270	639352		
DMRV	PV.8	Visegrád 3. kút	271281	643933	4	8
DMRV	PV.10	Tahitótfalu, Leányfalu T. 4.	266728	653074		
DMRV	PV.16	Tahitótfalu, Pokol sziget	270081	655191		
	PV.17	Komárom, Koppánymonostor	268299	574092		
	PV.18	Nyergesújfalú	268020	617300		
	PV.21	Esztergom, Prímás sziget	270868	625413		
FVM	PV.29	Kisoroszi, Tahi II. 2 kút	272582	649616		
FVM	PV.34	Pócsmegyer II. 9-10	262619	653550		

	K.3	Almásneszmély	265700	597660		
	K.4	Esztergom	272390	626532		
	9601	Gönyű	266771	558695		
	9645	Komárom	266803	583161		
	9705	Almásneszmély	265499	595216		
	9734	Lábatlan	267736	609542		

*Remark: the data of the DMRV and FVM wells measurement ( 4-5/year) can be provided on yearly base only!*

### **Observed Parameters:**

Water temperature, pH, conductivity, O<sub>2</sub>,  
 Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, Mg<sup>2+</sup>, Mn, Fe, NH<sub>4</sub><sup>+</sup>,  
 HCO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, NO<sub>3</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>,  
 Chemical Oxygen Demand (COD<sub>Mn</sub>).

### **Frequency of observations:**

- 2/year
- at selected observation sites for heavy metals – 1/year (As, Ni, Zn, Pb, Hg, Cu, Cd, Cr), selected organic micro-pollutants ( 9379, 9413, 9536, 9456, and 9480. wells)
- for the DMRV and FVM waterworks wells - 4-5 sample/year by 31 of March.

## Soil Observation Sites

No. Object	Object Name	Location	EOV X	EOV Y	Operator
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>					
<b>2605</b>	H13	Halászi	285683,25	523474,78	Hung. Rep.
<b>9443</b>	L18	Lipót	279888,00	530322,00	Hung. Rep.

### **Objects beyond the Joint Monitoring according to the Agreement of 1995:**

For the Szap-Budapest section at present there are not any observation site.

Due to the site selection, calibration, test periodes the establishment of new observation sites in year 2008 is not viable.

**Future negotiation is necessary by the monitoring representatives !**

## Forest Monitoring Sites

No. Object	Object Name	Location	EOV X	EOV Y	Plant type/age
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>					
	45A	Ásványráró	276895	533125	Ash-oak/51
	6D	Ásványráró	278874	535368	Willow/27
	13B	Dunakiliti	293124	522037	Poplar/27
	14C	Dunakiliti	292915	521883	Poplar/26
	15B	Dunakiliti	294025	521113	Poplar/19
	5F	Dunakiliti	294879	519803	Poplar/18
	6B	Dunakiliti	294221	520448	Poplar/33
	15A	Dunakiliti	290834	526582	Poplar/-
	15B	Dunasziget	290835	526519	Poplar/25
	16A	Dunasziget	290349	526136	Poplar/22
	22A	Dunasziget	288769	527845	Poplar/18
	22B1	Dunasziget	288606	527596	Oak/51
	25C	Dunasziget	288019	527671	Poplar/17
	44C	Dunasziget	189785	525335	Poplar/18
	4A	Dunasziget	292591	524272	Poplar/16
	5B	Dunasziget	292920	523973	Poplar/10
	6A	Győrzámoly	274334	542773	Poplar/26
	6B2	Győrzámoly	274356	542771	Poplar/10
	11B1	Hédervár	278007	531491	Alder/62
	15I	Kisbodak	284846	530030	Poplar/11
	16T	Kisbodak	284175	530366	Willow/34
	1A	Kisbodak	287259	529133	Poplar/13
	1F	Kisbodak	285893	529614	Willow/18
	11B	Lipót	281260	535518	Poplar/18
	23B1	Lipót	280258	536577	Poplar/24
	4A1	Lipót	280735	534339	Poplar/21

### **Observed Parameters:**

- Health status - min. 2/year (form and extends of damages, loss of leaves, etc)
- Dendronic characteristic - 1/year, by the end of the vegetation periodes
  - height of the tree,
  - diameter of the trunk ( $d_{1,3}$ )
- Based on the above mentioned by calculation:
  - yearly height growth,
  - diameter growth,
  - quantity
  - dry wood ratio, volumetric changes, weekly girth growth.

Health status by areal photos – 1/3 years.

**Objects beyond the Joint Monitoring according to the Agreement of 1995:**

**For the Szap-Budapest section at present there are not any observation site in operation. Due to the site selection, calibration, test periodes the establishment of new observation sites in year 2008 is not viable.**

**Future negotiation is necessary by the monitoring representatives !**

## Biological Monitoring Sites

No. Object	Object Name	Location	EOV X	EOV Y	V	S
<b>Objects included in the Joint Monitoring according to the Agreement of 1995</b>						
	04	Dunasziget, Schisler ág	291200,00	523800,00	•	-
	05	Dunasziget, Zátonyi Duna	285550,00	525800,00	•	-
	06	Lipót, Lipóti mocsár	281400,00	531200,00	•	-
	07	Kisbodak – Duna 1828. rkm	285000,00	530200,00	•	-
	08	Dunasziget, Zátonyi Duna	285700,00	525800,00	•	-
	09	Dunasziget, Csákányi Duna	291400,00	525100,00	•	-
	10	Dunasziget, Duna 1833. rkm	288800,00	528000,00	•	-
	11	Doborgazsziget, Duna 1839. rkm	296000,00	520700,00	•	-
	12	Dunasziget, Zátonyi Duna	287500,00	523300,00	•	-
	20	Feketeerdő, Mosonyi Duna	288000,00	518100,00	•	•
	22	Lipót, Zsejkei csatorna	279700,00	531250,00	-	•
	23	Mosonmagyaróvár	285825,00	517300,00	-	•
	24	Rajka – Duna	297900,00	515500,00	•	-
	25	Lipót, mellékág	281750,00	533000,00	•	-
	28	Lipót, Gombócós fytocoenoses	288500,00	527300,00	-	•
	30	Dunasziget, fytocoenoses	280850,00	534000,00	-	•
	31	Halászi, fytocoenoses	289000,00	519500,00	-	•
	32	Kisbodak, Pálffy sziget	284300,00	529850,00	•	-
	33	Novákpuszt, Nováki csatorna	277100,00	527550,00	•	-
	34	Rajka	297800,00	512730,00	•	-

A létesítmény száma	Megjelölés	Helyszín	EOV X	EOV Y	V	S
<b>Objects beyond the Joint Monitoring according to the Agreement of 1995</b>						
	39	Szógye, fenwood	268500,00	549500,00	-	•
		Vének, willow-poplar forest - Natura 2000 (91E0)				
		Ács „Ácsi-erdő” near to the Danube – Natura 2000 (91F0) Kisoroszi, meadow (controll site)	274800,00	648300,00		
		Kisoroszi, willow-poplar gallery forest	274741,00	648289,00		
		Horány-Surány-Pócsmegyer				

### Observed Parameters:

V – species or group monitored in water related environment

S – species or group monitored in terrestrial environment

WEcological group of biota	Group of biota	
	Baseline scenario	Data exchange by the Agreement of 1995
Vegetation		
Vegetation	Mezostructure of vegetation (fytocoenoses)	Mezostructure of vegetation
Fauna		
Water fauna		
Bentos and hyporeos Bottom communities	Ciliophora	
	Porifera	
	Hydrozozoa	
	Turbellaria	
	Mollusca (aquatic)	Mollusca (aquatic)
	Polychaeta	
	Hirudinea	
	Bryozoa	
	Isopoda	
	Amphipoda	
	Odonata (larva and imagines)	Odonata (imagines)
	Ephemeroptera	Ephemeroptera (imagines)
	Trichoptera	Trichoptera (imagines)
	Diptera (larva)	
Pelagos and nektos Water communities	Cladocera	Cladocera
	Copepoda	Copepoda
	Coleoptera (aquatic)	
	Pisces	Pisces
Terrestrial fauna		
Edaphon and ephigeon Soil communities	Mollusca (terrestrial)	Mollusca (terrestrial)
	Acarina	
	Isopoda	
	Amphipoda	
	Chilopoda	
	Collembola	
	Amphibia	
	Micromammalia	
Surface layer communities	Heteroptera	
	Hymenoptera	
	Coleoptera	
	Lepidoptera	
	Mecoptera	
	Diptera	
	Aves	
Supplementary parameters		
Physical parameters	Pedology parameters, soil moisture	
	Groundwater quality	
	Surface water levels	

**Frequency of observation:**

**Future negotiation is necessary by the monitoring representatives !**