2.2.3 Air Quality Data

Table 2.2.3.1 (1) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/10/29	0:00	0:30	WNW	1.2	6	16	7	22	46	17	0.193	1.427	0.088
1996/10/29	0:30	1:00	WSW	1.1	6	14	8	23	43	17	0.199	1.419	0.129
1996/10/29	1:00	1:30	SE	1.1	7	14	7	27	43	16	0.218	1.422	0.061
1996/10/29	1:30	2:00	NNW	1.2	6	13		23	42	15	0.294	1.331	0.066
1996/10/29	2:00	2:30	NW	1.3	6	12	8	21	42	14	0.202	1.326	
1996/10/29	2:30	3:00	SW	1.2	6	14		24	42		0.194	1.466	
1996/10/29	3:00	3:30	NW	1.4	5	10	6	20	43	14	0.226	1.368	0.548
1996/10/29	3:30	4:00	NNW	1.2	5	9	6	19	40	14	0.218	1.290	0.521
1996/10/29	4:00	4:30	WNW	1.2	4	9	6	23	39	16	0.185	1.314	0.484
1996/10/29	4:30	5:00	WNW	1.0	4	7	6	26	40	16	0.232	1.358	0.504
1996/10/29	5:00	5:30	SW	1.1	3	7	5	27	42	17	0.173	1.373	0.433
1996/10/29	5:30	6:00	SW	1.1	3	11	5	31	43	21	0.180	1.672	0.492
1996/10/29	6:00	6:30	WSW	1.4	3	3	5	34	41	22	0.159	1.400	0.631
1996/10/29	6:30	7:00	SE	1.2	3	3	5	29	39	25	0.321	1.229	0.768
1996/10/29	7:00	7:30	SW	1.0	3	3	5	41	39	22	0.284	1.285	0.712
1996/10/29	7:30	8:00	ENE	0.9	3	3	5	39	44	33	0.164	1.348	0.834
1996/10/29	8:00	8:30	WNW	0.9	3	4	5	43	45	34	0.151	1.344	0.741
1996/10/29	8:30	9:00	E	1.0	3	4		53	52		0.104	1.520	
1996/10/29	9:00	9:30	E	1.1		4	3		55	34		1.427	0.624
1996/10/29	9:30	10:00	E	1.0		5	3		39	30		1.204	0.567
1996/10/29	10:00	10:30	E	0.8	2	4	3	51	43	41	0.224	1.177	0.597
1996/10/29	10:30	11:00	E	0.7	2	6	3	51	47	32	0.308	1.326	0.793
1996/10/29	11:00	11:30	ESE	0.7	2	8	4	43	48	30	0.315	1.427	1.184
1996/10/29	11:30	12:00	ESE	0.8	2	14	4	55	49	32	0.261	1.410	1.089
1996/10/29	12:00	12:30	ESE	0.9	2	9	6	45	47	38	0.272	1.461	1.202
1996/10/29	12:30	13:00	ESE	0.9	2	7	13	40	44	40	0.205	1.557	1.067
1996/10/29	13:00	13:30	ESE	1.0	3	7	10	42	44	35	0.133	1.366	0.915
1996/10/29	13:30	14:00	ESE	0.9	3	9	11	35	47	39	0.103	1.393	0.937
1996/10/29	14:00	14:30	NE	1.0	3	13	10	35	50	45	0.104	1.427	0.915
1996/10/29	14:30	15:00	ENE	0.9	3	24	19	34	45	42	0.065	1.429	0.749
1996/10/29	15:00	15:30	SSW	0.8	3	28	8	34	44	48	0.057	1.439	0.800
1996/10/29	15:30	16:00	N	0.8	3	17	7	35	42	54	0.106	1.569	1.023
1996/10/29	16:00	16:30	NW	0.7	3	15	7	30	45	46	0.042	1.456	0.832
1996/10/29	16:30	17:00	NNW	0.6	3	15	7	30	43	44	0.059	1.285	0.825
1996/10/29	17:00	17:30	NNW	0.6	3	12	7	43	40	48	0.232	1.292	0.913
1996/10/29	17:30	18:00	NNW	0.6	3	10	10	40	45	42	0.258	1.353	1.116
1996/10/29	18:00	18:30	NNW	0.6	4	8	7	31	40	37	0.222	1.309	0.849
1996/10/29	18:30	19:00	NW	0.6	4	12	7	30	38	41	0.213	1.322	0.949
1996/10/29	19:00	19:30	W	0.7	4	19	6	28	40	35	0.251	1.468	0.829
1996/10/29	19:30	20:00	WNW	0.8	4	11	5	19	37	29	0.189	1.415	0.776
1996/10/29	20:00	20:30	W	0.9	4	15	5	17	32	30	0.181	1.559	0.805
1996/10/29	20:30	21:00	SW	1.2	4	11	5	21	31	26	0.199	1.388	0.785
1996/10/29	21:00	21:30	SSW	0.9	5		6	26	34	28	0.147	1.378	0.727
1996/10/29	21:30	22:00	N	0.7	5	17	7	29	42	29	0.284	1.618	0.795
1996/10/29	22:00	22:30	SW	0.8	5	15	9	26	46	29	0.334	1.517	0.751
1996/10/29	22:30	23:00	E	0.8	5	20	9	26	41	32	0.209	1.642	0.729
1996/10/29	23:00	23:30	NNE	0.8	5	18	8	32	42	37	0.170	1.493	0.683
1996/10/29	23:30	0:00	NE	0.8	5	13	7	35	48	28	0.206	1.500	0.697

Table 2.2.3.1 (2) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/10/30	0:00	0:30	SE	0.8	5	11	6	28	43	27	0.358	1.473	0.653
1996/10/30	0:30	1:00	S	0.9	5	13	4	30	37	29	0.317	2.117	0.656
1996/10/30	1:00	1:30	S	0.8	5	11	4	31	36	29	0.591	1.823	0.648
1996/10/30	1:30	2:00	E	0.8	4	9		28	38	27	0.582	1.557	0.680
1996/10/30	2:00	2:30	SW	0.8	4	8	3	25	39	27	0.265	1.701	
1996/10/30	2:30	3:00	WSW	1.9	5	7	3	16	35	26	0.017	1.713	
1996/10/30	3:00	3:30	SW	6.1	8	4	3	16	24	22	0.000	0.935	0.421
1996/10/30	3:30	4:00	WSW	5.4	11	5	3	16	23	20	0.017	1.082	0.389
1996/10/30	4:00	4:30	WSW	5.9	9	3	3	14	24	19	0.002	0.947	0.357
1996/10/30	4:30	5:00	WSW	5.9	6	7	3	17	28	18	0.147	1.006	0.315
1996/10/30	5:00	5:30	W	5.0	4	7	3	18	26	24	0.058	1.351	0.445
1996/10/30	5:30	6:00	W	4.6	6	15	2	14	28	20	0.036	1.388	0.330
1996/10/30	6:00	6:30	WSW	6.4	7	16	2	12	27	21	0.031	1.008	0.347
1996/10/30	6:30	7:00	WSW	7.7	5	13	2	10	26	20	0.018	0.959	0.320
1996/10/30	7:00	7:30	WSW	7.8	5	22	1	13	27	22	0.000	1.033	0.624
1996/10/30	7:30	8:00	WSW	6.7	6	23	2	13	25	22	0.000	1.011	0.761
1996/10/30	8:00	8:30	WSW	6.3	5	11	2	12	26	22	0.000	1.033	0.648
1996/10/30	8:30	9:00	WSW	7.2	5	5	2	11	25	20	0.002	0.993	0.545
1996/10/30	9:00	9:30	SSE	5.2	4	3	3	13	14	20	0.067	0.864	0.509
1996/10/30	9:30	10:00	WSW	6.8	4	12	2	14	18	20	0.075	0.881	0.408
1996/10/30	10:00	10:30	WSW	7.2	5	26	2	14	18	19	0.087	0.918	0.448
1996/10/30	10:30	11:00	WSW	6.8	5	17	2	15	17	15	0.101	0.712	0.276
1996/10/30	11:00	11:30	WSW	7.8	4	20	2	12	16	10	0.102	0.707	0.198
1996/10/30	11:30	12:00	WSW	7.1	4	19	2	11	15	7	0.095	0.695	0.161
1996/10/30	12:00	12:30	WSW	8.0	4	19	2	14	14	5	0.084	0.717	0.345
1996/10/30	12:30	13:00	WSW	8.2	3	13	2	14	13	6	0.079	0.727	0.105
1996/10/30	13:00	13:30	WSW	8.2	3	19	2	12	13	10	0.066	0.900	0.144
1996/10/30	13:30	14:00	WSW	8.0	4	14	3	15	15	12	0.064	0.881	0.164
1996/10/30	14:00	14:30	W	7.2	2	16	2	13	17	17	0.071	0.962	0.102
1996/10/30	14:30	15:00	WSW	7.0	2	21	1	14	14	19	0.083	1.116	0.124
1996/10/30	15:00	15:30	WSW	7.3	2	21	1	14	14	20	0.081	0.967	0.227
1996/10/30	15:30	16:00	WSW	6.0	2	15	1	16	14	24	0.081	0.976	0.301
1996/10/30	16:00	16:30	WSW	6.1	2	25	1	14	15	25	0.061	1.011	0.389
1996/10/30	16:30	17:00	WSW	5.9	3	30	1	13	15	25	0.053	0.817	0.372
1996/10/30	17:00	17:30	WSW	4.7	4	17	2	11	16	30	0.054	0.800	0.384
1996/10/30	17:30	18:00	SW	4.6	3	6	3	13	17	24	0.118	0.734	0.330
1996/10/30	18:00	18:30	WSW	5.7	3	8	3	12	17	22	0.114	0.702	0.320
1996/10/30	18:30	19:00	WSW	6.0	3	11	2	13	16	22	0.135	0.646	0.271
1996/10/30	19:00	19:30	WSW	6.0	3	9	2	11	15	21	0.118	0.658	0.283
1996/10/30	19:30	20:00	SW	5.5	3	2	2	13	15	21	0.066	0.683	0.310
1996/10/30	20:00	20:30	SW	4.6	3	0	2	13	16	20	0.106	0.702	0.296
1996/10/30	20:30	21:00	SW	5.6	3	2	2	14	18	19	0.077	0.741	0.323
1996/10/30	21:00	21:30	SW	4.8	4		2	15	17	18	0.028	0.673	0.310
1996/10/30	21:30	22:00	SW	5.3	4	5	2	12	15	17	0.074	0.597	0.259
1996/10/30	22:00	22:30	SW	5.3	4	4	2	13	14	16	0.038	0.582	0.261
1996/10/30	22:30	23:00	SW	5.2	4	7	2	10	14	15	0.027	0.638	0.247
1996/10/30	23:00	23:30	WSW	4.2	4	13	2	14	17	15	0.098	0.673	0.239
1996/10/30	23:30	0:00	SW	5.9	4	5		12	15		0.093	0.604	

Table 2.2.3.1 (3) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/10/31	0:00	0:30	SW	6.4	4	4	2	11	14	15	0.101	0.616	0.195
1996/10/31	0:30	1:00	SW	6.7	4	5	3	13	15	15	0.078	0.658	0.266
1996/10/31	1:00	1:30	SW	6.5	3	5	2	11	15	15	0.077	0.690	0.171
1996/10/31	1:30	2:00	SW	6.3	3	5		14	17	15	0.022	0.685	0.156
1996/10/31	2:00	2:30	SW	5.1	3	4	2	11	15	14	0.094	0.643	
1996/10/31	2:30	3:00	WSW	5.4	3	12	2	13	16	14	0.107	0.695	
1996/10/31	3:00	3:30	SW	5.8	3	11	2	11	16	14	0.062	0.776	0.183
1996/10/31	3:30	4:00	WSW	6.0	3	18	2	14	15	14	0.102	0.663	0.141
1996/10/31	4:00	4:30	WSW	6.2	3	22	2	13	16	14	0.098	0.638	0.100
1996/10/31	4:30	5:00	SW	6.2	3	6	2	13	14	15	0.046	0.638	0.137
1996/10/31	5:00	5:30	SW	6.1	3	4	2	13	15	15	0.104	0.675	0.159
1996/10/31	5:30	6:00	SW	5.7	3	5	2	14	16	15	0.119	0.724	0.210
1996/10/31	6:00	6:30	SW	5.7	3	5	2	11	17	16	0.100	0.729	0.129
1996/10/31	6:30	7:00	SW	5.6	3	6	2	11	18	17	0.097	0.683	0.115
1996/10/31	7:00	7:30	SW	5.5	3	5	2	14	15	16	0.056	0.651	0.195
1996/10/31	7:30	8:00	SW	5.5	3	5	3	14	16	19	0.109	0.695	0.230
1996/10/31	8:00	8:30	SW	5.3	4	10	3	12	18	19	0.061	0.768	0.274
1996/10/31	8:30	9:00	WSW	5.7	5	12	4	12	19	17	0.074	0.756	0.217
1996/10/31	9:00	9:30	WSW	6.1	6	25	4	15	19	21	0.079	0.761	0.247
1996/10/31	9:30	10:00	WSW	6.4	5	26	4	14	16	25	0.092	0.763	0.347
1996/10/31	10:00	10:30	WSW	6.5	5	26	4	17	16	22	0.108	0.712	0.362
1996/10/31	10:30	11:00	W	6.3	5	24	4	16	16	22	0.108	0.663	0.350
1996/10/31	11:00	11:30	W	6.5	5	12	4	18	15	21	0.116	0.631	0.315
1996/10/31	11:30	12:00	W	6.5	5	22	3	16	16	23	0.123	0.619	0.298
1996/10/31	12:00	12:30	W	5.8	6	16	3	35	15	24	0.167	0.744	0.335
1996/10/31	12:30	13:00	W	5.5	4	14	3	16	15	27	0.141	0.736	0.288
1996/10/31	13:00	13:30	WSW	5.1	4	17	3	16	16	26	0.137	0.910	0.259
1996/10/31	13:30	14:00	WSW	4.0	4	30	3	14	16	28	0.126	0.638	0.350
1996/10/31	14:00	14:30	WSW	4.6	3	23	2	13	17	29	0.121	0.609	0.455
1996/10/31	14:30	15:00	SW	4.9	4	10	3	16	14	28	0.090	0.592	0.372
1996/10/31	15:00	15:30	WSW	4.7	4	24	4	16	12	35	0.106	0.621	0.506
1996/10/31	15:30	16:00	W	2.1	5	32	4	14	15	35	0.115	0.778	0.492
1996/10/31	16:00	16:30	WSW	2.1	5	23	5	15	18	31	0.094	0.913	0.328
1996/10/31	16:30	17:00	SW	4.1	5	19	5	14	17	33	0.125	0.724	0.423
1996/10/31	17:00	17:30	SW	0.9	6	14	7	16	17	46	0.170	0.800	0.536
1996/10/31	17:30	18:00	SW	1.0	11	22	8	17	23	35	0.144	0.957	0.492
1996/10/31	18:00	18:30	SW	2.7	6	24	6	16	20	28	0.086	0.771	0.467
1996/10/31	18:30	19:00	SW	1.7	6	11	6	13	17	24	0.149	0.661	0.362
1996/10/31	19:00	19:30	SW	2.3	5	10	6	16	18	24	0.103	0.744	0.369
1996/10/31	19:30	20:00	SW	3.9	4	5	6	14	16	25	0.171	0.629	0.401
1996/10/31	20:00	20:30	WSW	3.4	3	11	5	18	15	25	0.180	0.646	0.369
1996/10/31	20:30	21:00	SW	4.7	3	7	4	15	15	25	0.128	0.663	0.381
1996/10/31	21:00	21:30	SW	2.5	3		4	14	17	32	0.094	0.702	0.418
1996/10/31	21:30	22:00	WSW	2.3	3	5	4	15	16	34	0.146	0.700	0.563
1996/10/31	22:00	22:30	WSW	1.0	5	8	5	20	14	29	0.357	0.653	0.719
1996/10/31	22:30	23:00	SW	0.8	5	11	6	19	18	27	0.217	0.722	0.455
1996/10/31	23:00	23:30	SW	0.9	3	9	6	15	19	25	0.169	0.683	0.403
1996/10/31	23:30	0:00	SW	2.5	3	4	4	13	18	24	0.157	0.636	0.381

Table 2.2.3.1 (4) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/11/01	0:00	0:30			2			17			0.163		
1996/11/01	0:30	1:00	S	0.9	2	7	2	18	20	21	0.234	0.795	0.323
1996/11/01	1:00	1:30	SW	1.0	1	93	2	16	20	22	0.197	2.367	0.269
1996/11/01	1:30	2:00	W	1.0	2	48		20	19	22	0.406	1.322	0.193
1996/11/01	2:00	2:30	S	1.2	2	39	2	29	21	20	0.329	1.128	
1996/11/01	2:30	3:00	WSW	1.0	2	28	3	30	20	20	0.297	0.944	
1996/11/01	3:00	3:30	SW	1.0	1	12	3	22	21	19	0.257	0.864	0.384
1996/11/01	3:30	4:00	SSW	1.0	1	18	2	23	23	20	0.325	0.903	0.399
1996/11/01	4:00	4:30	SSW	1.0	1	8	1	18	24	21	0.247	0.869	0.357
1996/11/01	4:30	5:00	SSE	1.0	1	7	1	26	22	18	0.375	0.810	0.254
1996/11/01	5:00	5:30	SW	1.0	1	12	1	32	19	20	0.338	0.756	0.359
1996/11/01	5:30	6:00	SW	0.9	1	16	1	30	19	35	0.337	1.158	0.318
1996/11/01	6:00	6:30	SSW	0.9	2	13	2	65	26	32	0.671	0.969	0.406
1996/11/01	6:30	7:00	W	1.1	2	12	2	77	24	44	0.710	0.905	0.403
1996/11/01	7:00	7:30	W	0.8	2	9	3	59	31	51	0.796	1.042	0.519
1996/11/01	7:30	8:00	WSW	0.9	3	12	4	51	41	48	0.517	1.280	0.758
1996/11/01	8:00	8:30	SE	0.9	2	18	5	30	46	48	0.296	1.424	0.864
1996/11/01	8:30	9:00	ENE	1.0	6	9	8	32	42	52	0.293	1.162	0.739
1996/11/01	9:00	9:30	E	0.9	8	11	3	35	39	39	0.355	1.160	0.536
1996/11/01	9:30	10:00	S	0.9	35	13	3	41	46	42	0.397	1.118	0.538
1996/11/01	10:00	10:30	NW	1.0	12	12	7	35	38	39	0.330	0.981	0.619
1996/11/01	10:30	11:00	NNW	0.9	25	9	11	31	34	39	0.262	0.893	0.668
1996/11/01	11:00	11:30	NW	0.8	55	18	16	35	37	37	0.290	0.896	0.653
1996/11/01	11:30	12:00	S	0.8	82	38	16	42	43	34	0.307	0.986	0.590
1996/11/01	12:00	12:30	E	0.9	47	53	20	46	37	34	0.379	1.035	0.825
1996/11/01	12:30	13:00	E	1.0	36	33	17	38	35	33	0.416	1.003	0.668
1996/11/01	13:00	13:30	ENE	0.9	33	28	50	34	32	42	0.393	0.920	0.707
1996/11/01	13:30	14:00	NNE	0.9	32	30	42	31	30	48	0.356	0.986	0.834
1996/11/01	14:00	14:30	SW	1.9	72	30	15	44	34	46	0.333	0.986	0.756
1996/11/01	14:30	15:00	ESE	2.0	53	35	11	39	28	37	0.287	0.913	0.712
1996/11/01	15:00	15:30	S	0.9	60	65	11	44	34	45	0.320	1.143	0.778
1996/11/01	15:30	16:00	WNW	0.9	56	54	12	40	35	62	0.305	1.101	0.957
1996/11/01	16:00	16:30	NW	1.0	36	62	19	31	37	59	0.324	1.187	0.827
1996/11/01	16:30	17:00	S	0.8	38	51	10	44	39	73	0.800	1.282	0.962
1996/11/01	17:00	17:30	E	0.9	43	55	8	61	50	67	1.090	1.774	0.905
1996/11/01	17:30	18:00	ESE	0.9	53	58	7	59	52	47	1.461	1.841	0.778
1996/11/01	18:00	18:30	SSW	0.9	32	56	6	30	52	54	0.574	1.877	0.751
1996/11/01	18:30	19:00	WSW	0.8	42	44	8	31	38	42	0.855	1.569	0.719
1996/11/01	19:00	19:30	WSW	0.8	32	33	7	59	28	36	0.834	1.194	0.614
1996/11/01	19:30	20:00	SSW	0.8	41	33	5	55	31	33	0.736	1.659	0.567
1996/11/01	20:00	20:30	ESE	0.8	34	57	4	64	44	31	0.616	1.703	0.519
1996/11/01	20:30	21:00	SSE	0.7	16	44	4	24	48	27	0.145	1.476	0.523
1996/11/01	21:00	21:30	WNW	1.0	24		3	30	33	28	0.214	1.006	0.506
1996/11/01	21:30	22:00	S	0.7	27	18	3	30	25	28	0.351	1.013	0.638
1996/11/01	22:00	22:30	E	0.8	30	29	3	40	36	33	0.514	1.380	0.749
1996/11/01	22:30	23:00	E	0.8	22	38	2	53	43	36	0.621	1.938	0.822
1996/11/01	23:00	23:30	ENE	0.8	21	30	3	52	44	39	0.688	1.307	0.783
1996/11/01	23:30	0:00	ENE	0.8	12	18	2	29	33	31	0.511	1.003	0.558

Table 2.2.3.1 (5) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/11/02	0:00	0:30	ENE	0.9	7	55	2	21	28	33	0.322	1.388	0.558
1996/11/02	0:30	1:00	ENE	0.9	6	26	2	22	23	40	0.382	1.060	0.643
1996/11/02	1:00	1:30	ENE	0.9	5	34	2	23	21	38	0.374	1.094	0.621
1996/11/02	1:30	2:00	ENE	0.9	5	16		23	20	40	0.570	0.905	0.670
1996/11/02	2:00	2:30	ENE	0.9	5	14	2	21	19	34	0.368	0.908	
1996/11/02	2:30	3:00	ENE	0.9	5	16	2	23	20	31	0.398	1.035	
1996/11/02	3:00	3:30	ENE	0.9	4	13	1	20	21	33	0.362	1.082	0.511
1996/11/02	3:30	4:00	ENE	0.9	3	48	1	21	21	33	0.409	1.290	0.391
1996/11/02	4:00	4:30	ENE	1.0	3	28	1	20	20	33	0.469	1.020	0.406
1996/11/02	4:30	5:00	ENE	0.9	3	22	0	20	20	30	0.403	0.993	0.377
1996/11/02	5:00	5:30	ENE	0.9	2	9	1	24	20	39	0.421	1.089	0.345
1996/11/02	5:30	6:00	ESE	1.0	2	5	1	20	21	39	0.382	1.109	0.372
1996/11/02	6:00	6:30	SW	1.1	2	6	1	19	21	50	0.394	1.023	0.621
1996/11/02	6:30	7:00	SW	1.0	2	2	2	21	22	70	0.422	0.925	0.443
1996/11/02	7:00	7:30	SSW	3.0	1	1	2	26	23	55	0.510	0.927	0.506
1996/11/02	7:30	8:00	WSW	1.1	2	3	2	42	23	71	0.518	1.145	0.976
1996/11/02	8:00	8:30	SW	0.8	2	13	4	40	23	65	0.425	1.101	0.668
1996/11/02	8:30	9:00	NE	0.8	3	17	4	35	32	49	0.321	1.153	0.501
1996/11/02	9:00	9:30	S	0.7	5	8	5	24	30	60	0.247	0.930	0.685
1996/11/02	9:30	10:00	NE	0.8	14	7	3	37	24	52	0.297	0.847	0.746
1996/11/02	10:00	10:30	NE	0.8	19	13	3	41	35	49	0.389	0.962	0.776
1996/11/02	10:30	11:00	ENE	0.8	18	22	4	64	33	40	0.770	1.233	0.754
1996/11/02	11:00	11:30	ENE	0.9	15	19	6	47	30	39	1.020	1.579	0.719
1996/11/02	11:30	12:00	E	1.3	16	13	13	34	33	46	0.938	1.662	0.719
1996/11/02	12:00	12:30	ESE	1.6	16	13	14	34	33	39	0.861	1.647	0.680
1996/11/02	12:30	13:00	ESE	2.7	19	13	27	35	30	56	0.711	1.373	0.964
1996/11/02	13:00	13:30	ESE	3.7	15	12	22	28	29	57	0.633	1.241	0.839
1996/11/02	13:30	14:00	ESE	3.9	12	11	12	26	30	46	0.582	1.148	0.680
1996/11/02	14:00	14:30	ESE	3.2	15	10	11	27	29	40	0.627	1.116	0.570
1996/11/02	14:30	15:00	ESE	2.2	16	8	8	30	29	35	0.674	1.131	0.714
1996/11/02	15:00	15:30	SE	2.5	12	11	8	31	31	33	0.646	1.273	0.903
1996/11/02	15:30	16:00	ESE	1.1	11	13	8	28	32	40	0.770	1.439	0.820
1996/11/02	16:00	16:30	WSW	0.9	9	17	7	33	33	39	0.616	1.620	0.719
1996/11/02	16:30	17:00	NNW	0.8	5	22	15	22	44	97	0.714	2.051	2.191
1996/11/02	17:00	17:30	NW	0.8	7	32	11	19	37	89	0.351	2.213	2.027
1996/11/02	17:30	18:00	WSW	1.3	8	20	11	15	34	99	0.245	1.743	1.752
1996/11/02	18:00	18:30	SW	1.1	6	24	11	13	28	59	0.207	1.189	0.898
1996/11/02	18:30	19:00	SW	1.0	4	33	7	14	31	29	0.176	1.273	0.276
1996/11/02	19:00	19:30	SW	1.7	7	17	5	13	28	28	0.318	0.986	0.249
1996/11/02	19:30	20:00	SW	1.7	6	16	6	14	26	42	0.181	1.055	0.416
1996/11/02	20:00	20:30	SW	0.9	3	18	7	25	27	58	0.230	1.192	0.673
1996/11/02	20:30	21:00	SSE	0.9	6	15	6	48	30	75	0.866	1.211	0.631
1996/11/02	21:00	21:30	ESE	0.8	14		5	43	28	39	0.928	1.383	0.367
1996/11/02	21:30	22:00	SW	0.8	11	26	5	45	34	41	0.830	1.723	0.374
1996/11/02	22:00	22:30	NE	0.9	12	38	5	52	49	41	1.025	2.151	0.440
1996/11/02	22:30	23:00	ENE	0.9	8	32	4	39	61	44	0.816	1.890	0.492
1996/11/02	23:00	23:30	S	0.8	5	20	4	29	44	39	0.511	1.456	0.563
1996/11/02	23:30	0:00	NW	0.8	4	23	3	25	41	34	0.464	1.968	0.567

Table 2.2.3.1 (6) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/11/03	0:00	0:30	NW	0.8	3	18	3	25	38	32	0.456	1.677	0.631
1996/11/03	0:30	1:00	NW	0.8	4	22	2	23	34	39	0.548	1.664	0.541
1996/11/03	1:00	1:30	NW	0.8	7	15	2	30	30	32	0.718	1.035	0.504
1996/11/03	1:30	2:00	S	0.8	7	16		29	26	40	0.545	1.084	0.567
1996/11/03	2:00	2:30	S	1.0	8	15	4	30	26	37	0.619	1.253	
1996/11/03	2:30	3:00	WSW	1.1	6	17	3	22	26	39	0.569	1.116	
1996/11/03	3:00	3:30	SSW	1.3	5	14	2	23	28	43	0.608	1.290	0.653
1996/11/03	3:30	4:00	SW	1.0	4	11	2	23	26	38	0.623	1.243	0.533
1996/11/03	4:00	4:30	WSW	0.9	4	13	2	20	24	33	0.457	1.192	0.587
1996/11/03	4:30	5:00	SW	0.8	3	5	2	19	21	40	0.432	1.020	0.504
1996/11/03	5:00	5:30	SW	0.8	3	5	1	21	21	30	0.497	0.991	0.354
1996/11/03	5:30	6:00	WSW	0.8	2	20	1	21	22	30	0.533	1.182	0.362
1996/11/03	6:00	6:30	WSW	1.0	2	26	1	28	21	34	0.504	1.116	0.374
1996/11/03	6:30	7:00	W	0.9	2	13	1	28	20	34	0.483	1.072	0.541
1996/11/03	7:00	7:30	WSW	0.8	2	9	2	37	19	48	0.688	1.028	0.643
1996/11/03	7:30	8:00	WSW	0.8	2	13	3	31	23	62	0.270	1.197	0.741
1996/11/03	8:00	8:30	NE	0.8	2	14	3	31	29	50	0.354	1.055	0.705
1996/11/03	8:30	9:00	NNW	0.7	7	9	1	24	23	50	0.323	0.849	1.096
1996/11/03	9:00	9:30	WNW	0.6	16	10	4	24	23	30	0.203	0.913	0.455
1996/11/03	9:30	10:00	NNE	0.7	13	8	4	30	25	33	0.213	0.825	0.487
1996/11/03	10:00	10:30	ENE	0.7	14	15	6	44	30	35	0.284	1.006	0.519
1996/11/03	10:30	11:00	ENE	0.7	17	16	4	30	23	33	0.554	1.018	0.602
1996/11/03	11:00	11:30	E	1.5	20	18	3	26	25	35	0.551	1.165	0.641
1996/11/03	11:30	12:00	ESE	1.2	11	10	8	27	24	35	0.414	1.011	0.651
1996/11/03	12:00	12:30	E	2.9	11	12	15	23	23	54	0.432	0.971	0.658
1996/11/03	12:30	13:00	ESE	3.9	11	8	13	23	22	49	0.400	0.915	0.614
1996/11/03	13:00	13:30	ESE	3.5	10	7	9	21	21	39	0.433	0.935	0.511
1996/11/03	13:30	14:00	ESE	1.9	16	10	7	19	21	33	0.323	0.954	0.533
1996/11/03	14:00	14:30	W	0.9	35	19	6	31	21	35	0.417	0.915	0.531
1996/11/03	14:30	15:00	SW	1.0	17	16	6	24	22	33	0.381	0.976	0.477
1996/11/03	15:00	15:30	ESE	1.8	17	13	8	25	23	33	0.378	1.020	0.516
1996/11/03	15:30	16:00	ESE	0.9	28	21		28	25		0.585	1.260	
1996/11/03	16:00	16:30	ESE	1.2	34	30	9	26	28	38	0.472	1.099	0.722
1996/11/03	16:30	17:00	SSE	0.8	28	28	9	28	29	42	0.665	1.013	0.661
1996/11/03	17:00	17:30	SE	1.1	25	28	11	27	29	96	0.554	1.087	1.814
1996/11/03	17:30	18:00	SSE	0.9	25	24	12	37	30	79	0.778	1.079	2.005
1996/11/03	18:00	18:30	SSW	0.8	28	28	18	48	31	83	1.029	1.738	2.323
1996/11/03	18:30	19:00	SSW	0.9	25	67	20	62	40	79	1.034	2.497	2.237
1996/11/03	19:00	19:30	SW	0.9	21	56	23	61	48	91	1.333	2.979	1.990
1996/11/03	19:30	20:00	SW	0.8	18	36	14	55	52	76	1.140	2.781	1.535
1996/11/03	20:00	20:30	WSW	0.8	19	57	10	56	45	70	1.632	3.689	1.466
1996/11/03	20:30	21:00	WSW	0.8	16	41	9	35	34	60	1.022	2.599	1.574
1996/11/03	21:00	21:30	WSW	0.8	14		7	30	31	64	0.887	1.885	1.625
1996/11/03	21:30	22:00	SW	0.8	9	49	7	28	30	51	0.762	2.849	1.326
1996/11/03	22:00	22:30	SW	0.8	8	23	7	36	29	64	0.945	1.794	1.297
1996/11/03	22:30	23:00	SW	0.8	9	33	8	33	27	61	0.872	2.139	1.307
1996/11/03	23:00	23:30	SW	0.8	11	20	6	27	26	48	0.762	1.684	1.133
1996/11/03	23:30	0:00	SW	0.8	11	28	6	25	26	41	0.844	1.588	0.883

Table 2.2.3.1 (7) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/11/04	0:00	0:30		0.8	9	11	5	24	25	43	0.751	1.434	0.915
1996/11/04	0:30	1:00	SW	0.8	8	15	6	24	23	35	0.638	1.297	0.854
1996/11/04	1:00	1:30	SW	0.8	6	4	4	21	23	33	0.619	1.236	0.817
1996/11/04	1:30	2:00	SW	0.9	6	2		27	23	30	0.728	1.155	0.700
1996/11/04	2:00	2:30	WSW	0.9	6	8	1	25	20	32	0.666	1.155	
1996/11/04	2:30	3:00	SW	1.0	5	2	1	25	19	29	0.593	1.177	
1996/11/04	3:00	3:30	WSW	1.0	4	2	1	18	19	28	0.461	1.138	0.516
1996/11/04	3:30	4:00	NW	0.8	4	1	1	16	21	29	0.382	1.045	0.555
1996/11/04	4:00	4:30	NW	0.9	3	2	1	21	18	32	0.394	0.959	0.577
1996/11/04	4:30	5:00	NNW	0.7	3	0	0	7	19	29	0.491	0.903	0.523
1996/11/04	5:00	5:30	W	0.7	3	0	0	13	19	27	0.446	0.905	0.445
1996/11/04	5:30	6:00	W	0.7	3	0	0	22	23	27	0.431	0.989	0.479
1996/11/04	6:00	6:30	W	0.8	3	1	0	22	33	32	0.653	1.140	0.541
1996/11/04	6:30	7:00	W	0.8	3	13	8	27	47	42	0.463	1.116	0.516
1996/11/04	7:00	7:30	W	0.7	8	29	13	38	39	41	0.368	1.206	0.474
1996/11/04	7:30	8:00	N	0.7	35	118	4	37	39	38	0.407	0.937	0.492
1996/11/04	8:00	8:30	S	0.7	45		9	35	54	39	0.336	0.957	0.372
1996/11/04	8:30	9:00	NNE	0.7	192		11	72	75	32	0.309	0.842	0.340
1996/11/04	9:00	9:30	NE	0.8	38	93	8	37	51	33	0.316	0.878	0.379
1996/11/04	9:30	10:00	SE	0.8	16	23	4	38	31	36	0.277	0.896	0.465
1996/11/04	10:00	10:30	E	0.8	10	18	4	31	31	37	0.272	0.918	0.590
1996/11/04	10:30	11:00	E	0.7	8	14	2	35	33	46	0.384	1.016	0.462
1996/11/04	11:00	11:30	E	0.7	7	12	28	29	27	67	0.452	1.060	0.450
1996/11/04	11:30	12:00	E	0.7	5	8	33	17	25	55	0.536	1.248	0.430
1996/11/04	12:00	12:30	SE	0.8	5	6	23	21	25	46	0.638	1.241	0.452
1996/11/04	12:30	13:00	E	0.8	6	4	15	40	24	43	0.702	1.280	0.577
1996/11/04	13:00	13:30	ESE	0.8	8	6	13	25	24	51	0.714	1.290	0.683
1996/11/04	13:30	14:00	ENE	0.8	6	7	129	27	26	85	0.820	1.476	0.736
1996/11/04	14:00	14:30	ENE	0.8	6	6	109	19	34	74	1.348	1.809	0.925
1996/11/04	14:30	15:00	ESE	0.8	5	5	63	21	30	53	1.826	2.555	0.891
1996/11/04	15:00	15:30	ESE	0.8	5	4	24	21	30	50	1.985	2.849	0.989
1996/11/04	15:30	16:00	SSE	0.8	10	5	34	33	31	67	1.882	2.847	1.194
1996/11/04	16:00	16:30	NNW	0.7	20	2	45	28	33	62	1.754	2.795	1.415
1996/11/04	16:30	17:00	NNW	0.6	24	2	60	40	34	63	1.857	2.558	1.537
1996/11/04	17:00	17:30	W	0.6	18	4	79	39	33	71	1.996	2.883	1.544
1996/11/04	17:30	18:00	WSW	0.6	11	20	70	41	37	70	2.597	2.908	1.552
1996/11/04	18:00	18:30	SW	0.7	36	9	53	45	35	60	2.539	3.432	1.601
1996/11/04	18:30	19:00	SW	0.7	43	32	40	42	36	53	2.284	3.121	1.716
1996/11/04	19:00	19:30	SW	0.7	58	34	29	43	36	53	1.792	2.614	1.799
1996/11/04	19:30	20:00	SW	0.6	67	50	24	41	37	51	1.717	2.252	1.779
1996/11/04	20:00	20:30	SW	0.7	52	41	20	38	37	48	1.632	2.176	1.703
1996/11/04	20:30	21:00	SSW	0.7	25	23	17	27	34	44	1.547	2.274	1.630
1996/11/04	21:00	21:30	SSW	1.0	19		14	27	31	43	1.416	2.112	1.505
1996/11/04	21:30	22:00	SSW	0.9	18	14	12	26	30	42	1.368	2.041	1.493
1996/11/04	22:00	22:30	SW	0.8	22	13	13	23	28	40	1.310	1.973	1.439
1996/11/04	22:30	23:00	SSW	1.7	19	13	12	20	27	38	0.863	1.931	1.344
1996/11/04	23:00	23:30	SSW	1.7	20	13	11	24	27	37	1.321	1.890	1.314
1996/11/04	23:30	0:00	SSW	1.0	21	14	12	25	26	35	1.280	1.877	1.155

Table 2.2.3.1 (8) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1996/11/05	0:00	0:30	SW	0.8	22	27	18	27	28	36	1.338	1.789	1.013
1996/11/05	0:30	1:00	SW	0.8	22	32	24	11	28	37	1.176	1.718	0.947
1996/11/05	1:00	1:30	SW	0.9	16	28	24	6	27	38	0.621	1.733	0.937
1996/11/05	1:30	2:00	SW	0.8	9	23		12	27	36	0.429	1.694	0.829
1996/11/05	2:00	2:30	SW	0.8	9	22	9	13	27	25	0.288	1.557	
1996/11/05	2:30	3:00	NW	0.8	13	15	7	11	23	25	0.305	0.922	
1996/11/05	3:00	3:30	SSE	0.8	13	14	11	3	21	28	0.262	0.891	0.411
1996/11/05	3:30	4:00	NE	0.8	10	5	14	3	18	30	0.176	0.869	0.440
1996/11/05	4:00	4:30	NE	0.8	7	4	10	2	17	30	0.116	0.829	0.401
1996/11/05	4:30	5:00	NE	0.8	6	4	7	12	19	31	0.086	0.827	0.413
1996/11/05	5:00	5:30	NE	0.8	6	4	6	15	18	31	0.274	0.825	0.401
1996/11/05	5:30	6:00	NE	0.8	6	5	6	8	19	35	0.400	0.844	0.467
1996/11/05	6:00	6:30	ENE	0.8	7	7	5	8	23	37	0.294	0.935	0.509
1996/11/05	6:30	7:00	E	0.8	6	7	4	24	22	36	0.375	0.920	0.521
1996/11/05	7:00	7:30	NNE	0.7	4	7	3	19	23	39	0.339	0.996	0.592
1996/11/05	7:30	8:00	NE	0.8	4	6	3	17	25	44	0.376	0.976	0.714
1996/11/05	8:00	8:30	E	0.8	3	5	4	15	27	43	0.381	1.067	0.624
1996/11/05	8:30	9:00	E	0.8	3	5	4	26	28	38	0.457	1.099	0.543
1996/11/05	9:00	9:30	E	0.8	2	4	4	27	29	44	0.398	1.077	0.555
1996/11/05	9:30	10:00	E	0.9	2	5	5	25	31	46	0.374	1.064	0.521
1996/11/05	10:00	10:30	E	0.8	2	6	7	20	31	45	0.397	1.175	0.567
1996/11/05	10:30	11:00	E	0.9	2	8	16	36	31	38	0.405	1.101	0.545
1996/11/05	11:00	11:30	ENE	0.8	2	6	103	33	21	60	0.316	1.637	0.504
1996/11/05	11:30	12:00	ENE	0.8	2	9	12	29	80	38	0.338	1.096	0.430
1996/11/05	12:00	12:30	E	0.9	3	11	5	18	31	35	0.356	1.233	0.462
1996/11/05	12:30	13:00	ESE	1.6	3	7	27	13	21	48	0.339	0.964	0.364
1996/11/05	13:00	13:30	SSE	1.3	3	7	40	11	25	53	0.316	0.935	0.362
1996/11/05	13:30	14:00	W	1.1	5	28	17	15	27	40	0.352	1.153	0.342
1996/11/05	14:00	14:30	WSW	1.5	8	22	16	31	30	41	0.390	1.158	0.411
1996/11/05	14:30	15:00	WSW	1.1	12	12	18	31	33	42	0.452	1.246	0.455
1996/11/05	15:00	15:30	W	1.1	9	20	17	65	35	45	0.704	1.405	0.516
1996/11/05	15:30	16:00	NNW	1.1	13	17	15	65	45	69	0.862	1.513	1.060
1996/11/05	16:00	16:30	NW	1.1	11	24	16	52	60	126	1.361	1.748	1.625
1996/11/05	16:30	17:00	WSW	1.0	7	43	12	30	70	92	1.134	2.137	1.069
1996/11/05	17:00	17:30	SW	1.3	7	30	12	25	64	110	1.135	2.012	1.637
1996/11/05	17:30	18:00	SW	2.3	9	28	12	31	57	115	1.286	1.831	1.894
1996/11/05	18:00	18:30	SW	1.1	8	46	11	24	52	83	1.069	1.983	1.615
1996/11/05	18:30	19:00	SW	1.1	10	42	12	23	51	99	1.375	1.943	1.588
1996/11/05	19:00	19:30	SW	3.0	12	35	13	23	51	69	1.200	1.659	1.011
1996/11/05	19:30	20:00	SW	3.3	10	35	11	22	51	82	1.158	1.733	1.030
1996/11/05	20:00	20:30	WSW	1.3	9	40	10	23	50	71	1.007	1.750	1.101
1996/11/05	20:30	21:00	WSW	1.9	9	38	9	24	50	67	1.037	1.804	1.020
1996/11/05	21:00	21:30	WSW	2.6	9		8	50	50	54	1.090	1.965	1.082
1996/11/05	21:30	22:00	SW	2.3	9	16	7	52	51	57	1.224	1.916	1.133
1996/11/05	22:00	22:30	SE	1.2	8	26	8	42	51	36	1.129	2.981	1.067
1996/11/05	22:30	23:00	S	1.2	8	20	6	49	58	48	1.076	1.983	0.866
1996/11/05	23:00	23:30	NNE	1.2	9	19	5	44	67	33	1.093	1.997	0.780
1996/11/05	23:30	0:00	WSW	1.2	9	16	4	36	67	35	1.049	1.968	0.915

Table 2.2.3.1 (9) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/20	0:00	0:30	S	1.4		44	37		24	6		2.428	0.470
1997/01/20	0:30	1:00	NNW	1.8			35		22	5		2.391	0.484
1997/01/20	1:00	1:30	WNW	1.8		42	34		24	5		2.423	0.536
1997/01/20	1:30	2:00	WSW	1.8		33			18	5		2.274	0.428
1997/01/20	2:00	2:30	SW	1.8		28			15	5		2.262	0.379
1997/01/20	2:30	3:00	SW	1.7			28		16	4		2.311	
1997/01/20	3:00	3:30	SW	1.9		30	27		17	4		2.316	0.421
1997/01/20	3:30	4:00	SW	1.7			29		17	5		2.301	0.448
1997/01/20	4:00	4:30	SSW	1.8		30	28		17	5		2.301	0.479
1997/01/20	4:30	5:00	SW	1.9		29	25		17	5		2.279	0.418
1997/01/20	5:00	5:30	SW	1.5		32	24		17	4		2.303	0.391
1997/01/20	5:30	6:00	SW	1.5		31	23		19	5		2.382	0.425
1997/01/20	6:00	6:30	WSW	1.6		38	22		19	5		2.355	0.504
1997/01/20	6:30	7:00	SW	1.8			22		21	5		2.342	0.450
1997/01/20	7:00	7:30	SSW	1.9		28	22		23	4		2.345	0.428
1997/01/20	7:30	8:00	SSW	1.8		30	22		23	7		2.362	0.553
1997/01/20	8:00	8:30	SSW	1.8		30	25		25	6		2.514	0.541
1997/01/20	8:30	9:00	SSW	1.6		36	23		25	10		2.467	0.631
1997/01/20	9:00	9:30	SW	1.8		35	23		27	8		2.489	0.560
1997/01/20	9:30	10:00	SSW	1.8			27		25	11		2.533	0.687
1997/01/20	10:00	10:30	SE	1.7	37	35	31	22	24	15	0.595	2.467	0.788
1997/01/20	10:30	11:00	WSW	1.3	42	38	33	14	38	11	0.639	2.475	0.624
1997/01/20	11:00	11:30	SW	1.3	46	32	32	20	20		0.637	2.330	0.768
1997/01/20	11:30	12:00	WSW	1.4	38	29	40	22	17		0.573	2.323	
1997/01/20	12:00	12:30	WNW	1.7	44	33	34	23	23	20	0.688	2.391	0.795
1997/01/20	12:30	13:00	S	2.1	47		35	13	30	18	0.534	2.426	0.612
1997/01/20	13:00	13:30	WNW	1.4	46		32	16	32	15	0.510	2.306	0.604
1997/01/20	13:30	14:00	WNW	2.0	40	42	28	9	33	13	0.451	2.323	0.548
1997/01/20	14:00	14:30	WNW	2.4	38	39	29	17	24	14	0.467	2.311	0.550
1997/01/20	14:30	15:00	WNW	2.0	36	37	26	9	23	14	0.374	2.311	0.567
1997/01/20	15:00	15:30	WNW	1.6	34	37	27	17	26	21	0.413	2.318	0.609
1997/01/20	15:30	16:00	WNW	1.5	35		27	19	23	21	0.431	2.387	0.621
1997/01/20	16:00	16:30	NNW	1.7	50	47	26	16	32	25	0.466	2.443	0.543
1997/01/20	16:30	17:00	S	1.7	35	37	31	8	28	18	0.416	2.357	0.487
1997/01/20	17:00	17:30	SSW	1.1	32	49	29	8	31	27	0.395	2.506	0.531
1997/01/20	17:30	18:00	WSW	1.1	33	36	31	10	21	26	0.400	2.516	0.629
1997/01/20	18:00	18:30	WSW	1.1	50	53	35	12	25	23	0.484	2.609	0.680
1997/01/20	18:30	19:00	WSW	1.0	34		31	9	25	19	0.419	2.494	0.560
1997/01/20	19:00	19:30	WSW	1.1	44	40	37	10	23	21	0.456	2.472	0.712
1997/01/20	19:30	20:00	WSW	1.1	35	39	26	9	25	18	0.409	2.435	0.599
1997/01/20	20:00	20:30	W	1.8	41	41	26	11	22	14	0.482	2.462	0.467
1997/01/20	20:30	21:00	NW	1.5	36	43	37	11	26	16	0.433	2.384	0.658
1997/01/20	21:00	21:30	NW	1.1	34	55	38	12	33	17	0.391	2.533	0.553
1997/01/20	21:30	22:00	NW	1.1	38		30	14	28	12	0.430	2.342	0.438
1997/01/20	22:00	22:30	NNW	1.1	44	42	25	18	29	9	0.443	2.279	0.399
1997/01/20	22:30	23:00	NNE	1.1	38	43	25	9	23	13	0.403	2.320	0.484
1997/01/20	23:00	23:30	NE	1.1	39	46	35	10	29	16	0.432	2.435	0.545
1997/01/20	23:30	0:00	S	1.3	43	39	29	11	21	11	0.467	2.350	0.455

Table 2.2.3.1 (10) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/21	0:00	0:30	NW	1.4	40	38	26	9	27	15	0.438	2.301	0.460
1997/01/21	0:30	1:00	NW	1.6	34		22	9	24	12	0.429	2.311	0.479
1997/01/21	1:00	1:30	W	1.7	26	38	20	8	20	11	0.365	2.335	0.487
1997/01/21	1:30	2:00	SW	1.8	24	35		8	19	11	0.368	2.340	0.457
1997/01/21	2:00	2:30	SW	1.8	27	33		9	19	12	0.469	2.372	0.492
1997/01/21	2:30	3:00	SW	1.9	21		16	7	22	9	0.327	2.406	
1997/01/21	3:00	3:30	SW	1.7	21	24	15	7	19	10	0.342	2.325	0.296
1997/01/21	3:30	4:00	WSW	1.8	24		14	16	19	9	0.408	2.352	0.230
1997/01/21	4:00	4:30	SW	1.8	27	27	12	23	21	10	0.455	2.338	0.266
1997/01/21	4:30	5:00	WNW	1.4	28	31	12	17	21	10	0.460	2.394	0.249
1997/01/21	5:00	5:30	WSW	1.6	28	30	18	22	20	13	0.503	2.347	0.252
1997/01/21	5:30	6:00	SW	1.8	26	36	15	16	21	15	0.494	2.355	0.242
1997/01/21	6:00	6:30	WSW	1.7	25	35	18	12	23	16	0.426	2.413	0.347
1997/01/21	6:30	7:00	SW	2.2	24		18	10	26	13	0.400	2.458	0.276
1997/01/21	7:00	7:30	SW	2.7	4	42	19	2	28	13	0.070	2.455	0.293
1997/01/21	7:30	8:00	SSW	2.5	6	40	18	6	31	13	0.095	2.502	0.237
1997/01/21	8:00	8:30	SW	2.0	23	46	22	31	30	35	0.603	2.634	0.665
1997/01/21	8:30	9:00	WSW	1.9	44	36	25	33	34	43	0.791	2.597	1.050
1997/01/21	9:00	9:30	WSW	1.8	66	35	32	31	26	51	0.979	2.675	1.079
1997/01/21	9:30	10:00	SW	1.6	63		37	37	32	21	0.951	2.861	0.545
1997/01/21	10:00	10:30	WSW	1.5	79	74	35	48	30	16	1.000	2.967	0.548
1997/01/21	10:30	11:00	WSW	1.6	56	64	30	44	30	17	0.814	2.788	0.496
1997/01/21	11:00	11:30	SW	1.7	49	78	27	36	38	26	0.666	2.810	0.465
1997/01/21	11:30	12:00	SW	1.8	54	77	33	32	43	20	0.619	2.822	0.452
1997/01/21	12:00	12:30	WSW	1.7	60	90	32	38	53	32	0.805	2.857	0.665
1997/01/21	12:30	13:00	NW	1.6	53		33	42	39	26	0.676	2.475	0.506
1997/01/21	13:00	13:30	NNW	1.3	55	42	47	38	46	24	0.622	2.458	0.597
1997/01/21	13:30	14:00	W	1.4	49	49	33	39	60	30	0.645	2.599	0.714
1997/01/21	14:00	14:30	W	1.5	47	50	32	40	52	29	0.716	2.570	0.697
1997/01/21	14:30	15:00	NW	1.4	45	49	29	41	57	30	0.697	2.644	0.607
1997/01/21	15:00	15:30	NNW	1.3	38	40	31	47	47	35	0.745	2.541	0.810
1997/01/21	15:30	16:00	NW	1.4	46	38	38	45	55	36	0.718	2.653	0.886
1997/01/21	16:00	16:30	SSE	1.5	49	40	40	54	65	52	0.869	2.830	1.020
1997/01/21	16:30	17:00	WNW	1.6	70	53	38	29	68	65	0.901	2.717	1.050
1997/01/21	17:00	17:30	WSW	1.8	71	60	41	32	98	61	1.378	3.376	1.378
1997/01/21	17:30	18:00	SW	1.7	67	66	51	35	63	83	1.392	3.207	1.701
1997/01/21	18:00	18:30	SSW	2.4	77	116	44	45	74	40	1.825	3.574	0.989
1997/01/21	18:30	19:00	SW	1.8	67	151	51	33	67	51	1.398	3.738	1.344
1997/01/21	19:00	19:30	SW	2.7	50	171	63	30	56	39	1.207	3.625	1.280
1997/01/21	19:30	20:00	SW	2.0	74	147	49	44	53	49	1.589	3.366	1.887
1997/01/21	20:00	20:30	SW	1.6	75	136	61	31	53	50	1.377	3.576	1.703
1997/01/21	20:30	21:00	SW	2.5	66	121	59	36	45	43	1.215	3.243	1.623
1997/01/21	21:00	21:30	SW	3.4	60	103	49	58	37	33	1.291	2.913	1.233
1997/01/21	21:30	22:00	SW	2.0	64	101	44	53	39	41	1.391	2.942	1.285
1997/01/21	22:00	22:30	SW	2.2	63	114	60	49	40	38	1.266	3.021	1.777
1997/01/21	22:30	23:00	WNW	1.8	70	101	63	45	48	40	1.265	3.180	1.302
1997/01/21	23:00	23:30	W	1.7	67	90	60	44	69	37	1.178	3.500	1.160
1997/01/21	23:30	0:00	NNW	1.5	66	72	68	44	64	35	1.311	3.114	1.055

Table 2.2.3.1 (11) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/22	0:00	0:30	WNW	1.3	51	68	62	51	50	37	1.316	3.035	1.131
1997/01/22	0:30	1:00	SW	1.3	45	68	65	54	61	39	1.453	3.221	1.273
1997/01/22	1:00	1:30	W	1.4	33	55	53	44	64	35	1.419	3.256	1.028
1997/01/22	1:30	2:00	WNW	1.4	30	43		43	69	53	1.370	3.283	0.974
1997/01/22	2:00	2:30	W	1.3	31	28		38	60	43	1.374	3.297	0.991
1997/01/22	2:30	3:00	W	1.5	25		29	39	59	48	1.379	3.234	
1997/01/22	3:00	3:30	WSW	1.3	29	30	25	38	43	40	1.151	3.373	1.150
1997/01/22	3:30	4:00	WSW	1.3	36	33	35	34	58	38	1.029	2.724	1.013
1997/01/22	4:00	4:30	NW	1.2	37	23	36	35	56	59	0.990	2.827	0.971
1997/01/22	4:30	5:00	WNW	1.2	25	29	26	36	41	45	1.189	2.741	1.003
1997/01/22	5:00	5:30	SW	1.2	16	30	22	35	41	36	1.331	2.798	0.940
1997/01/22	5:30	6:00	SW	1.1	21	10	24	36	43	43	1.133	2.950	1.025
1997/01/22	6:00	6:30	SSW	1.0	14	10	23	31	50	45	1.179	2.913	1.087
1997/01/22	6:30	7:00	SSW	1.0	9	11	21	26	52	45	1.060	2.805	1.527
1997/01/22	7:00	7:30	SW	1.0	11	2	22	29	42	64	1.185	2.810	1.539
1997/01/22	7:30	8:00	SW	1.0	12	11	44	30	38	59	1.231	2.776	1.740
1997/01/22	8:00	8:30	SW	0.9	15	8	47	35	47	81	1.261	2.852	1.801
1997/01/22	8:30	9:00	SSW	1.0		8	49		48	58		2.893	1.642
1997/01/22	9:00	9:30	SSW	0.9	45	18	51	33	47	31	1.317	2.866	1.028
1997/01/22	9:30	10:00	S	0.9	54	26	49	45	47	26	1.219	2.737	0.896
1997/01/22	10:00	10:30	SW	1.1	37	68	47	39	46	29	1.209	2.795	0.785
1997/01/22	10:30	11:00	ENE	1.2	34	70	41	51	69	25	1.150	3.001	0.675
1997/01/22	11:00	11:30	NE	1.2	38	39	20	52	84	38	1.127	2.808	0.896
1997/01/22	11:30	12:00	SW	0.9	33	50	6	37	75	59	0.847	2.783	1.324
1997/01/22	12:00	12:30	ENE	0.9	42	58	10	41	71	50	0.830	2.786	1.042
1997/01/22	12:30	13:00	ENE	0.9	48	60	11	50	62	38	0.931	2.648	0.920
1997/01/22	13:00	13:30	ENE	1.0	44	73	12	60	64	42	0.915	2.812	1.067
1997/01/22	13:30	14:00	E	1.7	42	68	16	44	62	46	0.798	2.741	1.113
1997/01/22	14:00	14:30	E	2.9	48	36	15	32	48	40	0.867	2.455	0.967
1997/01/22	14:30	15:00	ESE	1.9	80	28	19	32	40	46	0.935	2.443	0.979
1997/01/22	15:00	15:30	SE	1.8	62	23	26	24	35	34	0.748	2.328	0.829
1997/01/22	15:30	16:00	SSE	1.2	51	23	19	22	31	22	0.549	2.267	0.678
1997/01/22	16:00	16:30	SE	1.5	77	33	23	23	35	21	0.586	2.232	0.697
1997/01/22	16:30	17:00	SE	2.0	91	47	36	31	36	20	0.962	2.218	0.545
1997/01/22	17:00	17:30	ESE	1.4	95	68	37	36	41	21	0.771	2.328	0.575
1997/01/22	17:30	18:00	E	1.4	105	74	47	29	42	19	0.641	2.369	0.487
1997/01/22	18:00	18:30	WNW	1.0	104	69	60	42	42	23	1.571	2.252	0.538
1997/01/22	18:30	19:00	ENE	0.9	97	118	60	49	60	26	1.623	2.592	0.533
1997/01/22	19:00	19:30	E	1.1	69	59	57	38	52	26	0.755	2.431	0.572
1997/01/22	19:30	20:00	ESE	1.0	90	76	54	41	53	30	0.775	2.492	0.661
1997/01/22	20:00	20:30	E	1.6	82	66	34	36	49	30	0.752	2.384	0.663
1997/01/22	20:30	21:00	ESE	1.2	53	44	27	27	38	24	0.868	2.357	0.626
1997/01/22	21:00	21:30	E	1.0	81	65	29	26	43	23	1.851	2.396	0.597
1997/01/22	21:30	22:00	ESE	1.0	61	54	21	16	37	20	0.961	2.301	0.558
1997/01/22	22:00	22:30	ESE	2.0	60	32	21	13	24	15	0.590	2.137	0.484
1997/01/22	22:30	23:00	ESE	2.2	45	17	11	12	16	8	0.469	1.995	0.455
1997/01/22	23:00	23:30	ESE	3.2	44	16	7	9	17	7	0.467	2.017	0.403
1997/01/22	23:30	0:00	SE	2.6	42	7	7	10	12	6	0.476	1.921	0.421

Table 2.2.3.1 (12) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/23	0:00	0:30	SE	1.3	60	10	7	17	13	6	1.395	1.965	0.379
1997/01/23	0:30	1:00	ESE	1.7	44	12	7	20	16	5	0.834	2.022	0.372
1997/01/23	1:00	1:30	ESE	2.1	44	14	7	15	18	5	1.374	2.009	0.357
1997/01/23	1:30	2:00	ESE	1.8	33	15		13	20	6	0.499	2.022	0.384
1997/01/23	2:00	2:30	SE	1.7	52	11		16	17	7	0.610	1.997	0.413
1997/01/23	2:30	3:00	E	1.3	34		20	13	19	9	0.567	2.051	
1997/01/23	3:00	3:30	ESE	1.7	23	19	18	8	17	8	0.357	2.019	0.315
1997/01/23	3:30	4:00	SW	1.5	23	18	15	7	14	6	0.332	1.983	0.227
1997/01/23	4:00	4:30	SW	1.6	24	17	13	7	11	6	0.332	1.956	0.215
1997/01/23	4:30	5:00	SSW	1.5	23	17	13	8	12	7	0.307	1.956	0.237
1997/01/23	5:00	5:30	SW	1.6	20	16	15	13	12	7	0.292	1.921	0.237
1997/01/23	5:30	6:00	SSW	1.6	20	15	14	15	14	7	0.338	1.941	0.215
1997/01/23	6:00	6:30	WNW	1.6	24	16	14	21	15	10	0.394	1.973	0.291
1997/01/23	6:30	7:00	N	1.5	23	20	14	10	19	8	0.359	1.970	0.266
1997/01/23	7:00	7:30	NNW	1.3	23	23	13	13	27	13	0.476	1.990	0.352
1997/01/23	7:30	8:00	WSW	1.5	25	20	14	12	28	15	0.418	2.039	0.362
1997/01/23	8:00	8:30	SW	1.5	30	23	18	16	24	13	0.472	2.379	0.460
1997/01/23	8:30	9:00	WSW	1.4	33	24	15	11	24	10	0.454	2.085	0.281
1997/01/23	9:00	9:30	SW	1.3	27	27	22	11	21	13	0.405	2.120	0.448
1997/01/23	9:30	10:00	SW	1.2	29	26	16	16	15	9	0.409	2.088	0.332
1997/01/23	10:00	10:30	WNW	1.4	29	26	15	15	18	13	0.398	2.107	0.372
1997/01/23	10:30	11:00	NNE	1.4	27	24	17	13	21	17	0.386	2.147	0.403
1997/01/23	11:00	11:30	NNE	1.4	35	27	17	14	21	13	0.429	2.151	0.359
1997/01/23	11:30	12:00	NNE	1.4	35	35	16	13	21	14	0.389	2.188	0.411
1997/01/23	12:00	12:30	S	1.2	32	33	18	13	22	17	0.374	2.203	0.477
1997/01/23	12:30	13:00	NE	1.4	30	63	21	14	32	23	0.348	2.428	0.433
1997/01/23	13:00	13:30	NNE	1.5	31	33	21	16	20	17	0.397	2.230	0.457
1997/01/23	13:30	14:00	S	1.4	36	30	17	16	19	14	0.376	2.225	0.403
1997/01/23	14:00	14:30	NNW	1.3	30	32	18	14	20	16	0.389	2.242	0.423
1997/01/23	14:30	15:00	ENE	1.3	29	56	25	14	31	19	0.438	2.487	0.533
1997/01/23	15:00	15:30	ENE	1.4	29	65	22	12	34	20	0.386	2.538	0.521
1997/01/23	15:30	16:00	E	1.4	24	50	24	15	31	25	0.430	2.482	0.695
1997/01/23	16:00	16:30	NE	1.3	25	40	20	16	29	15	0.456	2.460	0.448
1997/01/23	16:30	17:00	ESE	1.3	23	38	16	16	33	24	0.453	2.531	0.445
1997/01/23	17:00	17:30	S	1.1	27	38	25	18	27	22	0.454	2.369	0.521
1997/01/23	17:30	18:00	S	1.2	27	43	24	15	56	19	0.386	2.741	0.494
1997/01/23	18:00	18:30	NNE	1.3	29	43	23	15	31	21	0.378	2.639	0.597
1997/01/23	18:30	19:00	N	1.4	45	46	26	17	27	27	0.342	2.531	0.612
1997/01/23	19:00	19:30	NNW	1.4	41	50	28	18	29	22	0.373	2.418	0.597
1997/01/23	19:30	20:00	S	1.3	38	56	33	15	35	23	0.318	2.394	0.612
1997/01/23	20:00	20:30	ENE	1.2	39	77	41	16	34	22	0.397	2.717	0.607
1997/01/23	20:30	21:00	S	1.2	42	42	45	19	24	23	0.611	2.387	0.621
1997/01/23	21:00	21:30	WSW	1.3	49	47	31	19	25	21	0.712	2.389	0.582
1997/01/23	21:30	22:00	SSW	1.3	35	58	28	18	30	15	0.632	2.458	0.435
1997/01/23	22:00	22:30	SW	1.5	30	78	26	17	28	13	0.549	2.558	0.450
1997/01/23	22:30	23:00	WSW	1.4	33	53	34	19	26	22	0.563	2.455	0.592
1997/01/23	23:00	23:30	SW	1.3	36	37	28	19	23	16	0.493	2.450	0.457
1997/01/23	23:30	0:00	SW	1.7	43	38	30	22	25	15	0.551	2.470	0.509

Table 2.2.3.1 (13) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/24	0:00	0:30	WSW	1.8	43	38	31	18	25	18	0.473	2.497	0.585
1997/01/24	0:30	1:00	ESE	1.8	44	45	27	17	29	17	0.480	2.565	0.452
1997/01/24	1:00	1:30	S	1.8	41	44	29	16	28	15	0.494	2.577	0.482
1997/01/24	1:30	2:00	WSW	1.9	24	42		10	25	14	0.419	2.533	0.484
1997/01/24	2:00	2:30	WSW	1.9	20	48		8	22	11	0.378	2.497	0.425
1997/01/24	2:30	3:00	SW	1.8	21		16	7	15	8	0.374	2.306	
1997/01/24	3:00	3:30	WSW	2.2	20	16	15	7	14	7	0.373	2.303	0.450
1997/01/24	3:30	4:00	WSW	1.9	19	22	14	7	14	8	0.351	2.323	0.438
1997/01/24	4:00	4:30	W	1.9	19	23	13	6	15	7	0.348	2.301	0.479
1997/01/24	4:30	5:00	WSW	1.7	18	15	13	6	15	6	0.337	2.286	0.384
1997/01/24	5:00	5:30	SW	1.6	18	15	12	7	14	6	0.351	2.281	0.362
1997/01/24	5:30	6:00	W	1.7	18	20	10	9	16	10	0.319	2.360	0.357
1997/01/24	6:00	6:30	W	1.8	19	16	13	10	16	10	0.371	2.396	0.504
1997/01/24	6:30	7:00	WNW	1.8	19	21	17	7	19	14	0.340	2.360	0.479
1997/01/24	7:00	7:30	NW	1.8	19	19	13	11	21	15	0.346	2.338	0.621
1997/01/24	7:30	8:00	W	1.6	19	23	13	21	18	11	0.354	2.541	0.450
1997/01/24	8:00	8:30	NW	1.5	19	19	21	10	30	18	0.353	2.399	0.700
1997/01/24	8:30	9:00	WNW	1.7	18	23	18	8	30	13	0.329	2.342	0.567
1997/01/24	9:00	9:30	W	1.9	18	21	16	9	18	19	0.345	2.394	0.492
1997/01/24	9:30	10:00	WSW	1.9	19	16	17	7	15	12	0.361	2.338	0.448
1997/01/24	10:00	10:30	NW	1.9	17	18	12	6	18	20	0.313	2.320	0.460
1997/01/24	10:30	11:00	SW	1.7	18	20	12	6	19	13	0.350	2.328	0.499
1997/01/24	11:00	11:30	WSW	1.8	17	16	13	6	14	14	0.351	2.328	0.494
1997/01/24	11:30	12:00	WSW	1.8	17	30	13	7	19	13	0.337	2.526	0.467
1997/01/24	12:00	12:30	W	2.1	19	38	18	8	16	13	0.351	2.492	0.489
1997/01/24	12:30	13:00	WSW	2.3	18	26	17	7	14	15	0.364	2.409	0.521
1997/01/24	13:00	13:30	WSW	2.3	18	39	16	7	16	14	0.376	2.443	0.558
1997/01/24	13:30	14:00	W	1.6	18	44	14	7	19	15	0.349	2.546	0.580
1997/01/24	14:00	14:30	W	1.7	19	40	19	7	21	15	0.334	2.670	0.582
1997/01/24	14:30	15:00	WSW	1.8	17	18	23	8	18	15	0.352	2.396	0.590
1997/01/24	15:00	15:30	WSW	1.7	18	19	16	9	17	14	0.405	2.342	0.511
1997/01/24	15:30	16:00	W	1.6	18	27	14	14	16	16	0.405	2.470	0.494
1997/01/24	16:00	16:30	NW	1.3	20	25	15	12	23	19	0.390	2.423	0.465
1997/01/24	16:30	17:00	N	1.5	16	23	13	12	29	15	0.382	2.487	0.523
1997/01/24	17:00	17:30	S	1.5	17	25	18	13	30	16	0.366	2.450	0.634
1997/01/24	17:30	18:00	SSE	1.2	20	28	13	15	42	16	0.406	2.448	0.607
1997/01/24	18:00	18:30	NW	1.2	20	25	16	9	33	16	0.424	2.502	0.545
1997/01/24	18:30	19:00	SW	1.2	19	36	19	8	30	12	0.411	2.516	0.514
1997/01/24	19:00	19:30	SW	1.3	20	28	19	8	20	14	0.437	2.416	0.533
1997/01/24	19:30	20:00	SW	1.3	16	35	22	8	26	18	0.408	2.509	0.658
1997/01/24	20:00	20:30	WSW	1.3	16	28	26	8	24	17	0.398	2.548	0.749
1997/01/24	20:30	21:00	WSW	1.6	18	14	29	9	18	14	0.420	2.360	0.607
1997/01/24	21:00	21:30	WNW	1.3	21	25	21	10	23	15	0.458	2.521	0.626
1997/01/24	21:30	22:00	W	1.5	21	30	17	11	27	13	0.468	2.536	0.565
1997/01/24	22:00	22:30	WSW	1.4	21	24	21	12	18	13	0.479	2.482	0.528
1997/01/24	22:30	23:00	WSW	1.9	27	22	28	12	18	17	0.461	2.470	0.553
1997/01/24	23:00	23:30	SW	1.8	29	38	24	13	22	12	0.450	2.404	0.545
1997/01/24	23:30	0:00	SW	1.9	29	51	25	14	27	13	0.477	2.406	0.526

Table 2.2.3.1 (14) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/25	0:00	0:30	SW	1.9	39	44	27	14	24	11	0.481	2.423	0.536
1997/01/25	0:30	1:00	SW	2.2	42	44	24	13	23	11	0.552	2.450	0.509
1997/01/25	1:00	1:30	SSW	2.1	43	39	22	13	21	10	0.613	2.467	0.514
1997/01/25	1:30	2:00	SSW	1.8	38	33		17	20	12	0.540	2.445	0.477
1997/01/25	2:00	2:30	SW	1.7	34	33		12	21	10	0.452	2.475	0.516
1997/01/25	2:30	3:00	SW	1.6	27		20	13	21	10	0.490	2.445	
1997/01/25	3:00	3:30	WSW	1.8	25	36	20	14	22	10	0.464	2.866	0.416
1997/01/25	3:30	4:00	W	1.9	23	29	18	11	23	10	0.439	2.930	0.403
1997/01/25	4:00	4:30	WSW	2.0	21	24	16	12	21	10	0.433	2.438	0.362
1997/01/25	4:30	5:00	W	1.9	20	23	16	14	20	10	0.462	2.509	0.386
1997/01/25	5:00	5:30	WNW	1.9	19	19	15	14	25	9	0.475	2.438	0.408
1997/01/25	5:30	6:00	WSW	1.9	19	18	14	16	24	9	0.502	2.541	0.389
1997/01/25	6:00	6:30	W	2.2	19	17	13	11	22	13	0.462	2.433	0.506
1997/01/25	6:30	7:00	WSW	2.0	21	26	15	21	24	12	0.469	2.587	0.543
1997/01/25	7:00	7:30	WSW	2.0	19	23	14	24	21	12	0.510	2.460	0.541
1997/01/25	7:30	8:00	SSE	1.9	16	32	15	19	30	16	0.482	2.707	0.462
1997/01/25	8:00	8:30	NE	1.9	18	23	17	16	33	31	0.500	2.555	0.646
1997/01/25	8:30	9:00	NE	1.8	19	33	18	18	31	21	0.709	2.604	0.536
1997/01/25	9:00	9:30	ENE	1.4	22	40	21	23	38	22	0.617	2.739	0.526
1997/01/25	9:30	10:00	E	1.4	18	75	22	16	49	23	0.551	2.925	0.504
1997/01/25	10:00	10:30	ENE	2.6	14	73	14	13	46	20	0.323	2.830	0.438
1997/01/25	10:30	11:00	ENE	2.7	15	53	6	10	34	12	0.337	2.663	0.247
1997/01/25	11:00	11:30	E	1.8	13	33	5	12	28	14	0.197	2.445	0.357
1997/01/25	11:30	12:00	ENE	1.5	10	42	5	8	25	8	0.154	2.372	0.235
1997/01/25	12:00	12:30	ENE	1.3	10	33	6	8	25	9	0.162	2.289	0.235
1997/01/25	12:30	13:00	NNE	1.3	11	21	7	8	26	7	0.186	2.220	0.176
1997/01/25	13:00	13:30	NE	1.8	12	23	9	10	25	14	0.197	2.245	0.296
1997/01/25	13:30	14:00	ESE	1.8	15	19	10	14	17	8	0.226	2.196	0.159
1997/01/25	14:00	14:30	WSW	2.0	17	16	7	11	21	6	0.244	2.247	0.186
1997/01/25	14:30	15:00	SSW	1.9	13	13	15	20	18	7	0.210	2.193	0.198
1997/01/25	15:00	15:30	E	2.0	27	10	13	14	16	6	0.371	2.156	0.127
1997/01/25	15:30	16:00	ESE	2.0	41	13	20	11	16	8	0.439	2.176	0.097
1997/01/25	16:00	16:30	ESE	1.7	19	15	9	19	23	6	0.353	2.242	0.149
1997/01/25	16:30	17:00	E	1.7	36	35	6	18	31	7	0.572	2.423	0.117
1997/01/25	17:00	17:30	E	1.9	33	46	33	18	43	43	0.635	2.690	1.001
1997/01/25	17:30	18:00	WSW	1.4	32	46	53	18	47	48	0.890	3.283	1.417
1997/01/25	18:00	18:30	SW	1.6	50	47	69	17	32	61	0.804	2.942	1.615
1997/01/25	18:30	19:00	SSW	2.1	61	77	49	20	41	39	0.870	2.901	1.057
1997/01/25	19:00	19:30	WSW	1.8	62	91	61	23	35	42	1.098	2.881	1.101
1997/01/25	19:30	20:00	SW	1.7	62	94	50	20	34	38	0.938	3.074	1.113
1997/01/25	20:00	20:30	SW	1.5	50	80	46	29	31	43	0.935	3.040	1.557
1997/01/25	20:30	21:00	WSW	1.4	56	94	58	24	30	55	1.031	3.013	1.701
1997/01/25	21:00	21:30	WSW	1.5	54	74	46	22	30	32	0.946	2.837	0.967
1997/01/25	21:30	22:00	SW	1.6	56	88	40	23	31	29	0.913	2.825	0.798
1997/01/25	22:00	22:30	SW	1.4	68	68	38	22	32	27	0.727	2.759	0.621
1997/01/25	22:30	23:00	SW	1.8	59	69	26	17	31	16	0.631	2.800	0.379
1997/01/25	23:00	23:30	SSE	2.0	34	73	26	16	35	18	0.369	2.737	0.445
1997/01/25	23:30	0:00	SSW	1.8	40	65	32	15	28	22	0.436	3.070	0.496

Table 2.2.3.1 (15) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/26	0:00	0:30	WNW	1.9	26	51	30	12	29	22	0.340	2.678	0.501
1997/01/26	0:30	1:00	WSW	1.8	41	36	25	13	27	20	0.407	2.387	0.511
1997/01/26	1:00	1:30	SW	1.8	53	35	18	16	20	15	0.477	2.291	0.367
1997/01/26	1:30	2:00	SW	1.8	47	42		17	22	15	0.470	2.301	0.244
1997/01/26	2:00	2:30	SW	1.9	37	56		20	20	15	0.566	2.276	0.230
1997/01/26	2:30	3:00	SW	1.8	27		16	20	18	19	0.598	2.291	
1997/01/26	3:00	3:30	SW	1.8	22	59	16	21	19	20	0.563	2.161	0.565
1997/01/26	3:30	4:00	WSW	1.7	24	64	11	22	18	16	0.652	2.342	0.482
1997/01/26	4:00	4:30	WSW	1.6	19	53	10	22	16	17	0.613	2.191	0.460
1997/01/26	4:30	5:00	WSW	1.7	16	49	14	22	19	19	0.615	2.073	0.543
1997/01/26	5:00	5:30	WSW	2.0	15	55	12	25	16	22	0.722	2.005	0.594
1997/01/26	5:30	6:00	WSW	1.9	14	38	9	27	16	26	0.674	1.946	0.526
1997/01/26	6:00	6:30	W	2.2	15	54	19	30	20	24	0.756	2.196	0.567
1997/01/26	6:30	7:00	WNW	1.4	14	22	23	30	34	25	0.833	2.364	0.685
1997/01/26	7:00	7:30	W	1.2	15	25	15	28	40	23	0.882	2.480	0.648
1997/01/26	7:30	8:00	W	1.4	11	29	12	30	36	30	1.088	2.477	0.663
1997/01/26	8:00	8:30	W	1.6	11	24	19	26	46	42	0.950	2.717	0.954
1997/01/26	8:30	9:00	WNW	1.5	13	24	25	29	47	34	0.843	2.710	0.856
1997/01/26	9:00	9:30	WNW	1.4	15	17	22	30	49	27	0.833	2.719	0.749
1997/01/26	9:30	10:00	WSW	1.1	17	19	26	33	44	30	0.911	2.847	0.805
1997/01/26	10:00	10:30	W	1.3	23	40	26	45	56	36	0.989	3.216	0.937
1997/01/26	10:30	11:00	WSW	1.2	13	48	28	41	55	33	1.137	3.248	0.903
1997/01/26	11:00	11:30	SW	1.1	19	69	26	37	49	26	1.136	3.371	0.876
1997/01/26	11:30	12:00	SW	1.1	32	55	29	29	46	26	0.952	3.006	0.712
1997/01/26	12:00	12:30	SW	1.0	81	47	18	19	34	18	0.523	2.622	0.448
1997/01/26	12:30	13:00	SW	1.2	71	48	28	13	21	25	0.255	2.289	0.793
1997/01/26	13:00	13:30	SW	1.3	33	46	17	13	19	15	0.253	2.132	0.511
1997/01/26	13:30	14:00	SW	1.2	26	41	18	14	15	31	0.333	1.943	0.734
1997/01/26	14:00	14:30	SW	1.4	31	30	39	14	14	23	0.347	2.068	0.702
1997/01/26	14:30	15:00	S	1.5	28	26	133	12	16	33	0.291	2.056	0.531
1997/01/26	15:00	15:30	SE	2.0	27	21	65	12	19	18	0.313	2.063	0.381
1997/01/26	15:30	16:00	SSE	1.4	37	11	10	12	16	9	0.366	1.973	0.357
1997/01/26	16:00	16:30	SE	1.4	63	19	4	16	15	9	0.768	2.078	0.379
1997/01/26	16:30	17:00	SE	1.3	66	24	5	16	18	8	1.127	2.142	0.372
1997/01/26	17:00	17:30	SSW	1.3	63	27	9	17	25	26	1.046	2.406	0.687
1997/01/26	17:30	18:00	SW	1.1	47	38	20	27	25	58	1.082	2.462	1.794
1997/01/26	18:00	18:30	WSW	1.4	54	59	37	30	26	47	1.226	2.587	1.728
1997/01/26	18:30	19:00	WNW	1.2	46	78	36	22	31	47	0.949	2.903	1.823
1997/01/26	19:00	19:30	SW	1.3	32	74	30	19	32	43	0.765	3.048	1.483
1997/01/26	19:30	20:00	SW	1.2	45	99	30	22	33	38	1.047	2.954	1.498
1997/01/26	20:00	20:30	SW	1.3	44	97	41	23	31	30	1.078	2.883	1.434
1997/01/26	20:30	21:00	WSW	2.2	65	94	29	26	25	30	1.181	2.624	1.380
1997/01/26	21:00	21:30	WSW	1.0	74	94	41	30	25	27	1.453	2.604	1.270
1997/01/26	21:30	22:00	WSW	1.3	66	86	36	32	21	27	1.466	2.609	1.045
1997/01/26	22:00	22:30	WSW	1.0	56	70	28	34	22	27	1.223	2.724	1.309
1997/01/26	22:30	23:00	WSW	1.0	58	57	21	39	30	21	1.045	2.964	1.042
1997/01/26	23:00	23:30	SW	1.4	57	54	19	37	24	22	1.060	2.622	0.908
1997/01/26	23:30	0:00	WSW	1.4	56	63	20	37	19	25	1.169	2.663	1.013

Table 2.2.3.1 (16) Automatic Measurement Data

Date	Time		WD	WS	SO2 (ppb)			NOx (ppb)			CO (ppb)		
	Start	End		m/s	J3	EC2	EC3	J3	EC2	EC3	J3	EC2	EC3
1997/01/27	0:00	0:30	W	1.6	50	70	24	36	22	16	1.036	2.724	0.739
1997/01/27	0:30	1:00	SSE	1.6	49	59	23	31	32	18	1.102	2.803	0.947
1997/01/27	1:00	1:30	WSW	1.7	35	44	18	22	33	17	0.971	2.668	0.790
1997/01/27	1:30	2:00	WSW	1.6	28	47		22	35	17	0.898	2.705	0.832
1997/01/27	2:00	2:30	WSW	1.6	27	51		27	26	17	0.985	2.595	0.734
1997/01/27	2:30	3:00	W	1.4	33		17	34	22	16	1.033	2.394	
1997/01/27	3:00	3:30	SSW	1.4	33	42	15	28	28	16	1.030	2.511	0.521
1997/01/27	3:30	4:00	NNW	1.5	32	23	14	27	26	13	1.029	2.401	0.504
1997/01/27	4:00	4:30	WSW	1.6	28	24	18	33	25	14	1.002	2.443	0.604
1997/01/27	4:30	5:00	WSW	1.5	27	36	14	31	24	17	0.941	2.377	0.575
1997/01/27	5:00	5:30	W	1.3	24	18	9	31	26	17	0.928	2.267	0.597
1997/01/27	5:30	6:00	S	1.4	20	29	7	31	40	21	0.955	2.435	0.538
1997/01/27	6:00	6:30	WSW	1.3	18	20	12	55	44	25	1.052	2.384	0.861
1997/01/27	6:30	7:00	SW	1.3	17	33	16	50	38	44	1.053	2.345	0.944
1997/01/27	7:00	7:30	W	1.4	16	20	10	59	26	43	1.118	2.264	1.243
1997/01/27	7:30	8:00	WSW	1.0	21	12	17	59	31	42	1.036	2.357	1.148
1997/01/27	8:00	8:30	SSE	1.3	32	33	25	54	57	70	1.195	2.764	1.236
1997/01/27	8:30	9:00	S	1.4	40	37	28	59	54	65	1.334	2.560	1.035
1997/01/27	9:00	9:30	WSW	1.4	29	54	27	63	70	49	1.215	2.820	0.984
1997/01/27	9:30	10:00	WSW	1.3	32	53	21	54	74	36	0.993	2.989	0.810
1997/01/27	10:00	10:30	WSW	0.9	22	77	30	57	74	42	1.136	3.006	1.052
1997/01/27	10:30	11:00	WSW	0.8	21	60	31	52	72	46	1.091	3.021	0.967
1997/01/27	11:00	11:30	SW	0.8	21	56	29	49	68	42	0.968	3.013	0.871
1997/01/27	11:30	12:00	NE	0.8	27	32	27	41	40	33	0.834	2.389	0.695
1997/01/27	12:00	12:30	S	0.8	31	32	25	33	42	26	0.528	2.293	0.531
1997/01/27	12:30	13:00	SSW	0.8	31	31	22	30	36	19	0.483	2.240	0.418
1997/01/27	13:00	13:30	NE	0.7	32	30	22	25	25	22	0.460	2.098	0.362
1997/01/27	13:30	14:00	NE	0.8	32	34	22	35	27	23	0.624	2.156	0.465
1997/01/27	14:00	14:30	N	1.2	50	32	18	33	25	22	0.819	2.171	0.418
1997/01/27	14:30	15:00	NNE	1.4	81	35	16	33	39	20	0.730	2.249	0.443
1997/01/27	15:00	15:30	E	1.1	44	56	12	33	53	24	0.663	2.450	0.411
1997/01/27	15:30	16:00	ENE	0.8	38	72	13	38	56	32	0.650	2.577	0.484
1997/01/27	16:00	16:30	NE	0.9	18	82	14	37	45	36	0.653	2.553	0.484
1997/01/27	16:30	17:00	W	0.8	15	55	20	37	48	60	1.033	2.553	0.893
1997/01/27	17:00	17:30	WSW	0.8	40	61	45	38	56	69	1.599	2.918	1.525
1997/01/27	17:30	18:00	WSW	0.8	38		67	37	56	65	1.076	2.930	2.051
1997/01/27	18:00	18:30	WSW	0.9	37	51	83	38	55	64	1.205	3.082	1.965
1997/01/27	18:30	19:00	WSW	1.0	48	98	88	42	56	60	1.591	3.586	2.078
1997/01/27	19:00	19:30	WSW	1.1	63	75	88	41	50	51	1.749	3.329	1.620
1997/01/27	19:30	20:00	WSW	1.2	90	81	78	61	51	46	1.939	3.422	1.782
1997/01/27	20:00	20:30	SW	1.1	86	101	68	55	55	38	1.782	3.603	1.637
1997/01/27	20:30	21:00	WSW	1.1	73	113	43	49	53	39	1.600	3.317	1.167
1997/01/27	21:00	21:30	WSW	1.1	64	88	47	42	48	43	1.347	3.412	1.647
1997/01/27	21:30	22:00	WSW	0.9	62	70	44	40	44	36	1.257	3.346	1.344
1997/01/27	22:00	22:30	W	0.9	56	59	36	46	40	28	1.261	3.199	1.006
1997/01/27	22:30	23:00	WSW	0.9	62	53	36	51	36	30	1.404	3.021	1.001
1997/01/27	23:00	23:30	WSW	1.1	65	70	29	52	37	26	1.546	3.163	0.898
1997/01/27	23:30	0:00	WSW	1.5	87	45	29	55	31	29	1.790	2.852	0.876

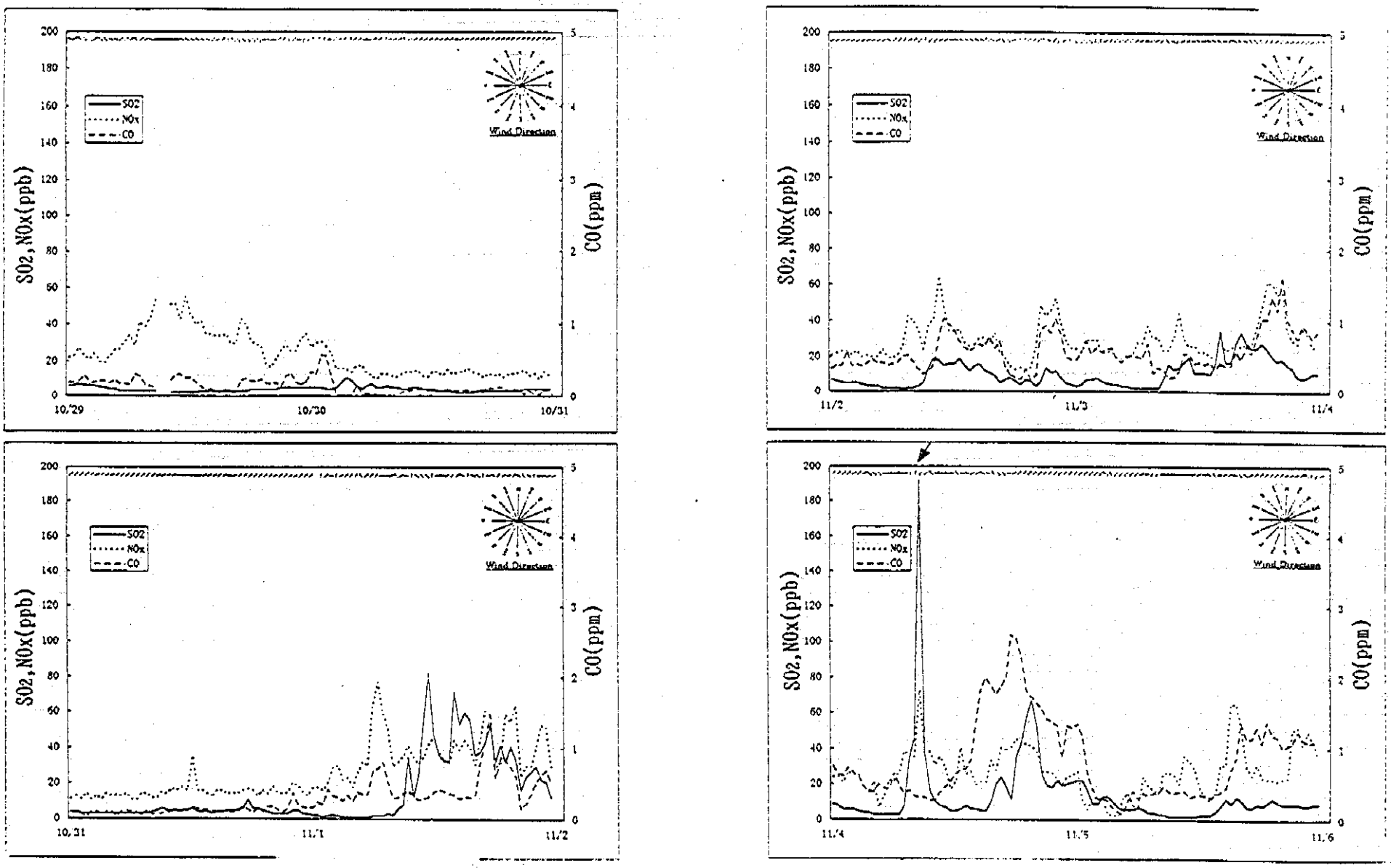


Figure 2.2.3.1 (1) The Chronological Transition of the Automatic Measurement Data of Each Air Pollutant in Autumn (J3 Station)

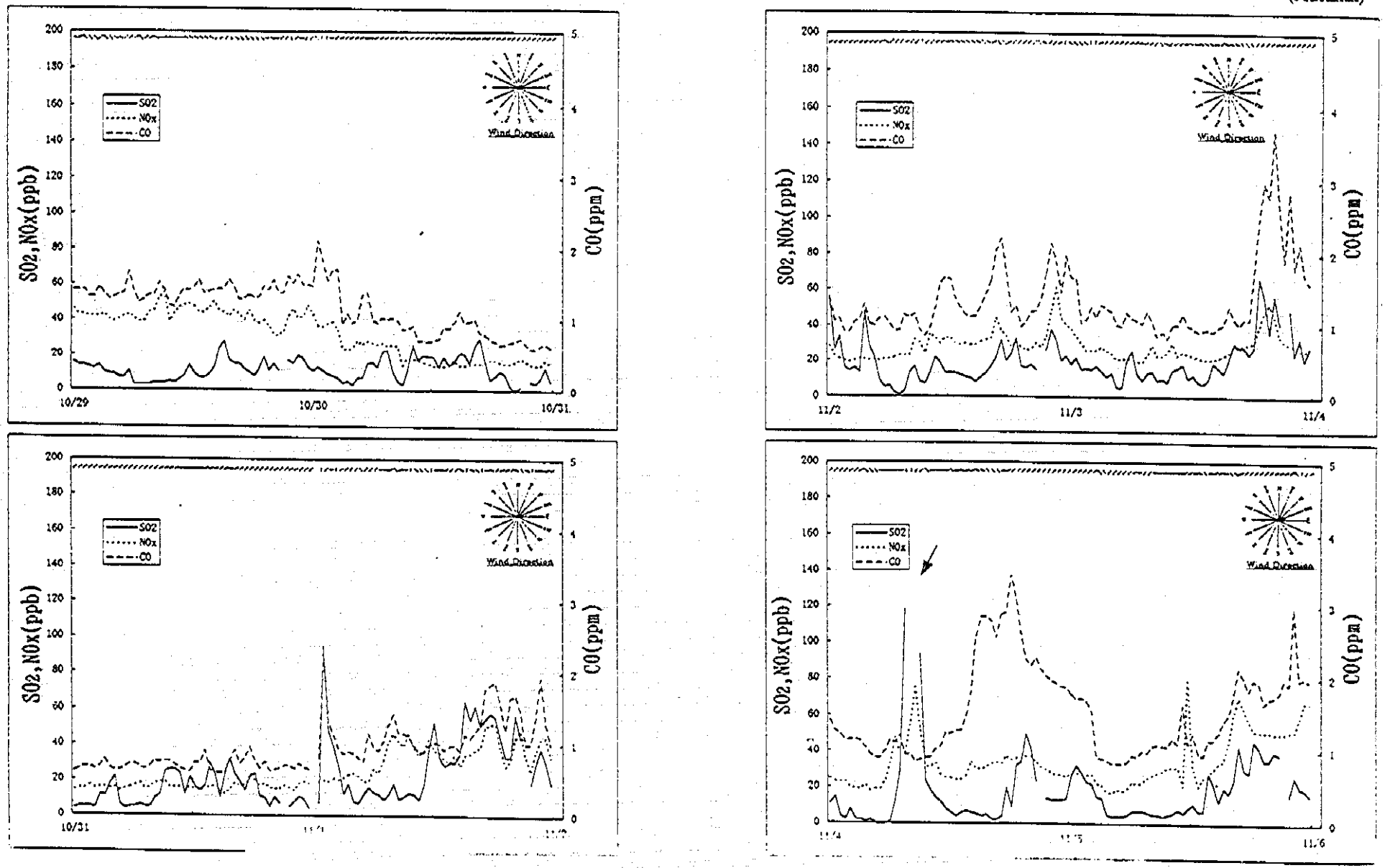


Figure 2.2.3.1 (2) The Chronological Transition of the Automatic Measurement Data of Each Air Pollutant in Autumn (EC2 Station)

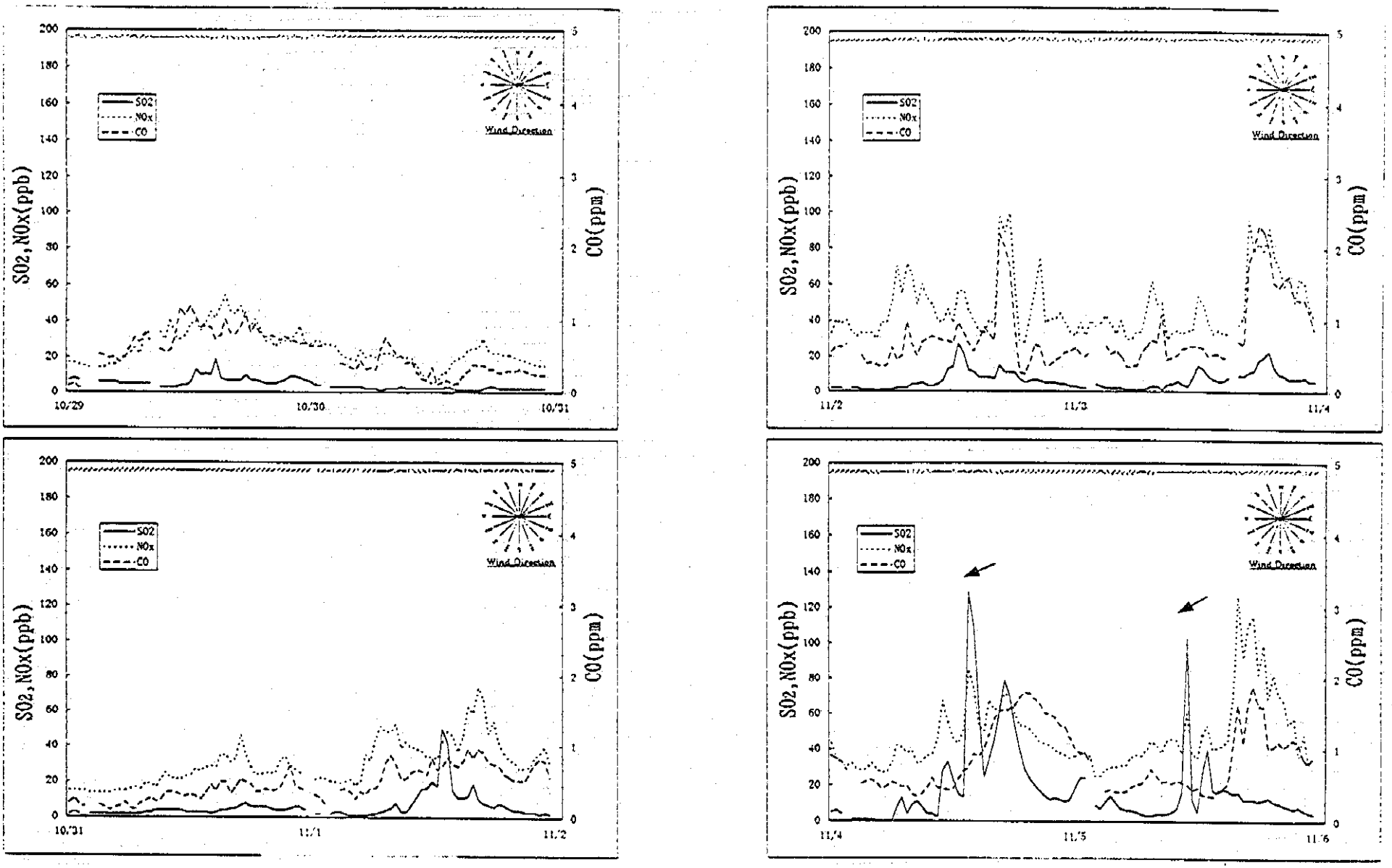


Figure 2.2.3.1 (3) The Chronological Transition of the Automatic Measurement Data of Each Air Pollutant in Autumn (EC3 Station)

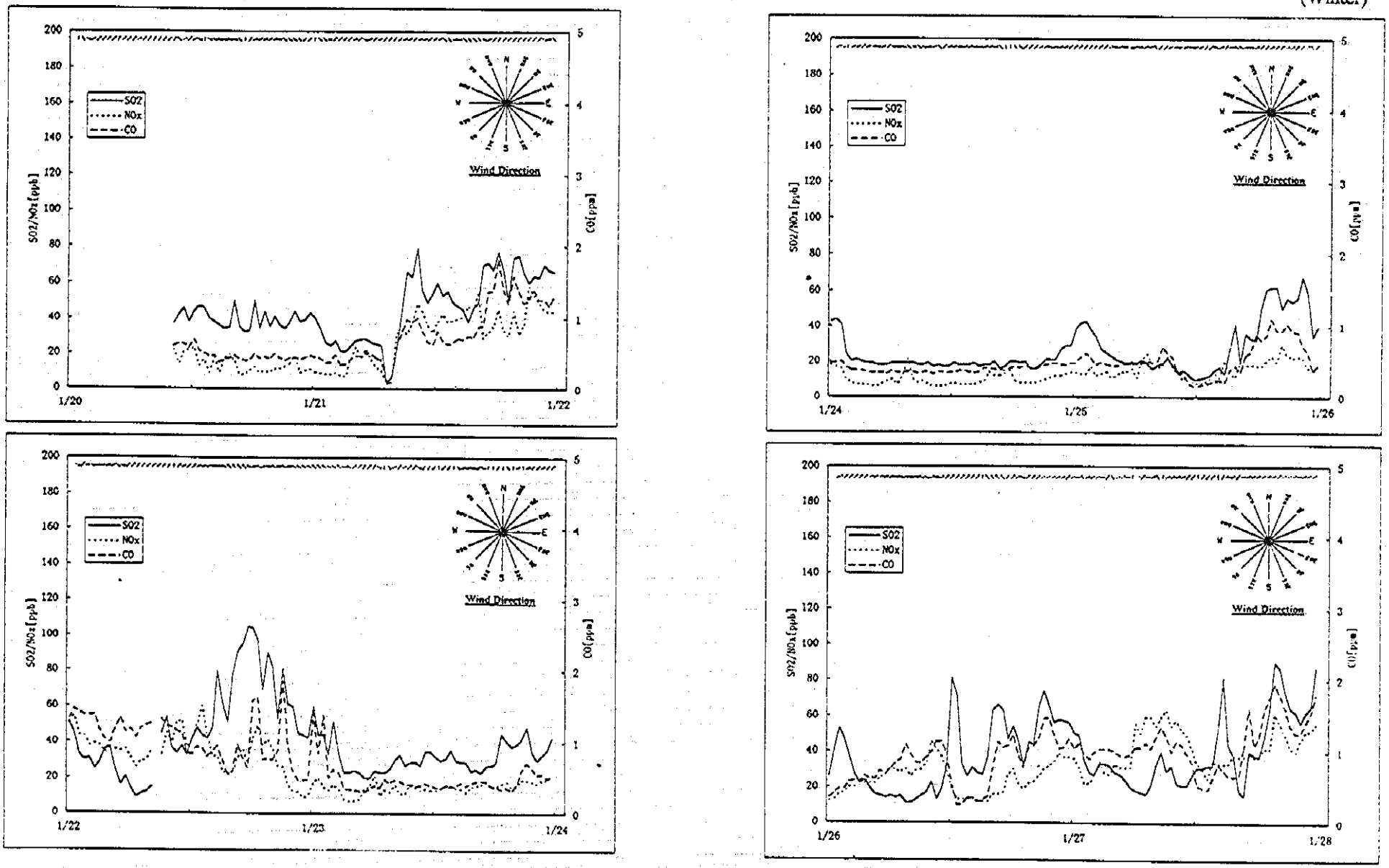


Figure 2.2.3.2 (1) The Chronological Transition of the Automatic Measurement Data of Each Air Pollutant in Winter (J3 Station)

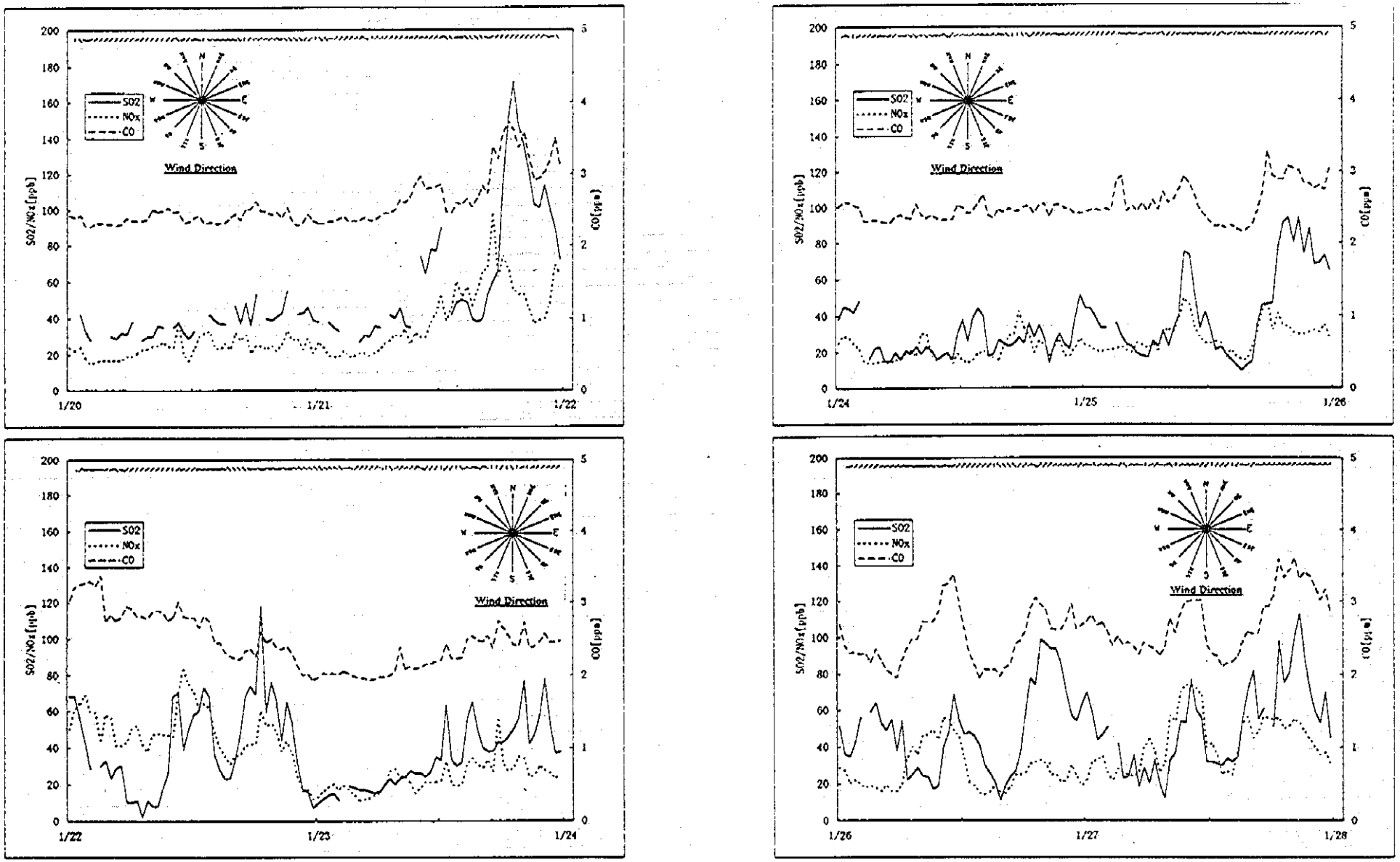


Figure 2.2.3.2 (2) The Chronological Transition of the Automatic Measurement Data of Each Air Pollutant in Winter (EC2 Station)

(Winter)

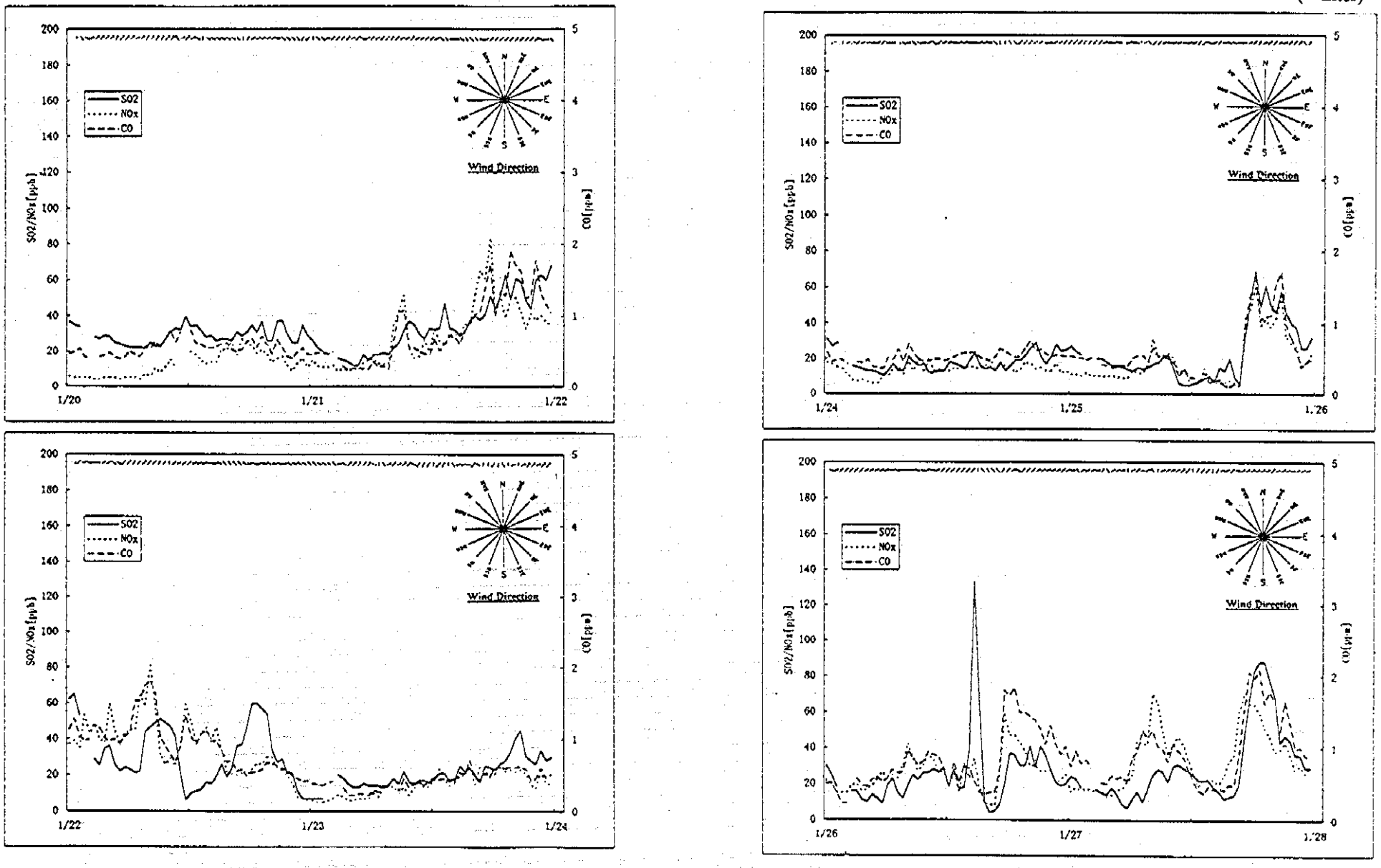


Figure 2.2.3.2 (3) The Chronological Transition of the Automatic Measurement Data of Each Air Pollutant in Autumn (EC3 Station)

2.2.4 Groundwater and Surface Water Data

Table 2.2.4.1 (1) Location and Water Level of the Observation Wells

(1996 Oct. 24~Oct. 30)

Well No.	Location (X-Y)		Measure Level	Water Level		Depth of Well		Note
	X (m)	Y (m)	a (mBf) (2)	b (1) (m)	(a-b) (mBf) (2)	c (1) (m)	(a-c) (mBf) (2)	
TM-2	324830	772640	129.35	3.50	125.85	7.50	121.85	
TM-3	324500	773060	128.36	3.10	125.26	6.50	121.86	
TM-4	324410	772960	129.00	3.10	125.90	7.10	121.90	
TM-5	324070	773050	125.68	3.10	122.58	8.30	117.38	
TM-6	324020	773100	125.98	2.10	123.88	6.80	119.18	
TM-7	323807	773563	124.98	3.00	121.98	7.00	117.98	
TM-8	323730	773430	125.65	2.90	122.75	6.00	119.65	
TM-9	323436	773783	125.10	3.10	122.00	6.50	118.60	
TM-11	323020	773920	127.44	2.80	124.64	6.40	121.04	
TM-12	323000	773840	127.22	2.40	124.82	6.70	120.52	
TM-13	322660	773990	127.21	3.00	124.21	6.00	121.21	Bad odor
TM-14	322680	773930	126.86	2.40	124.46	5.80	121.06	Oil odor
TM-15	322180	774170	126.80	3.10	123.70	6.90	119.90	
TM-16	322200	774180	126.70	3.00	123.70	6.00	120.70	Bad odor
TM-17	322200	774640	125.77	2.40	123.37	7.20	118.57	
TM-18	321950	774640	126.13	2.80	123.33	6.50	119.63	
TM-19	322570	771260	134.28	4.50	129.78	6.00	128.28	Suspension
TM-20	323070	771090	133.27	4.00	129.27	8.00	125.27	
TM-21	323070	771090	131.45	3.40	128.05	6.80	124.65	
TM-22	323580	771560	129.91	2.90	127.01	6.00	123.91	
TM-23	323100	771750	129.53	2.50	127.03	5.40	124.13	
TM-24	322820	771690	130.24	4.10	126.14	6.70	123.54	
TM-25	325730	769820	132.81	6.90	125.91	9.70	123.11	
TM-27	325260	771070	132.32	5.20	127.12	9.00	123.32	
TM-28	325780	771600	128.59	4.70	123.89	8.30	120.29	
TM-30	325200	775020	127.66	4.00	123.66	9.50	118.16	
TM-31	320170	776820	123.48	3.70	119.78	6.70	116.78	Ocher
TM-32	321060	777880	123.25	2.40	120.85	9.10	114.15	
TM-33	322407	772512	128.33	3.40	124.93	10.30	118.03	
TM-34	322170	773280	128.42	3.60	124.82	8.60	119.82	
TM-35	321810	774870	125.98	4.10	121.88	8.50	117.48	
TM-36	321060	775730	124.32	3.30	121.02	9.40	114.92	
TM-37	323670	771280	130.94	3.60	127.34	7.00	123.94	
TM-40	322450	771850	133.75	6.80	126.95	11.00	122.75	
TM-41	322330	774920	126.24	3.50	122.74	9.50	116.74	
TM-42	322150	775600	126.31	4.70	121.61	9.00	117.31	
TM-43	322760	776250	127.41	5.90	121.51	11.00	116.41	
TM-44	322210	776670	125.76	4.50	121.26	10.40	115.36	

(1) It is depth from the measure level(the upper end of well).
(2) "mBf" means above sea level based on the Baltic Sea.

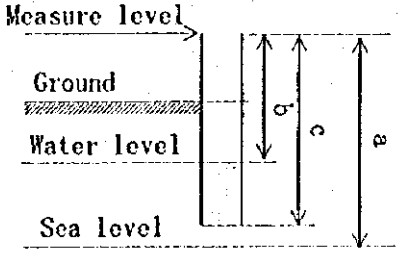


Table 2.2.4.1 (2) Location and Water Level of the Observation Wells

(1996 Oct. 24～Oct. 30)

Well No.	Location (X-Y)		Measure Level	Water Level		Depth of Well		Note
	X (m)	Y (m)	a (mBf) (2)	b (1) (m)	(a-b) (mBf) (2)	c (1) (m)	(a-c) (mBf) (2)	
TT-1	322980	773500	126.48	18.50	107.98	24.00	102.48	Slight bad odor
TT-4	324530	772230	125.60	14.30	111.30	21.00	104.60	Strong bad odor
TT-8	323920	773120	125.97	13.60	112.37	19.00	106.97	
TT-9	323280	773170	125.82	17.80	108.02	23.00	102.82	
TT-10	322670	773860	126.12	15.70	110.42	21.00	105.12	Suspension, Bad odor
TT-11	324330	772420	125.17	21.00	104.17	28.00	97.17	
TT-12	323180	771500	128.60	13.00	115.60	20.00	108.60	
TT-13	323010	771570	128.48	14.00	114.48	20.00	108.48	
E-1	321630	777430	127.45	4.32	123.13	9.00	118.45	
E-4	323330	776320	124.35	3.90	120.45	7.30	117.05	
E-5	324070	775850	124.79	3.38	121.41	8.30	116.49	
E-6	324970	774580	127.93	4.98	122.95	10.70	117.23	
ET-101	322710	775000	127.08	5.00	122.08	7.70	119.38	
ET-102	322720	775520	126.16	4.10	122.06	10.20	115.96	
ET-103	322530	775500	126.19	4.00	122.19	22.50	103.69	Bad odor
ET-104	322500	775320	126.60	4.50	122.10	10.30	116.30	
H-2	323173	774799	127.86	5.40	122.46	9.50	118.36	
H-3	323395	772298	126.58	2.60	123.98	12.30	114.28	
HS	323075	772777	127.67	2.00	125.67	7.00	120.67	
M*2	323380	771400	-	2.00	-	4.00	-	
T1*	324710	772880	-	3.30	-	9.00	-	H_2S odor
TS	324058	772102	128.17	2.20	125.97	9.80	118.37	
V-2	323609	773132	139.48	18.00	121.48	20.00	119.48	

(1) It is depth from the measure level (the upper end of well).
(2) "mBf" means above sea level based on the Baltic Sea.

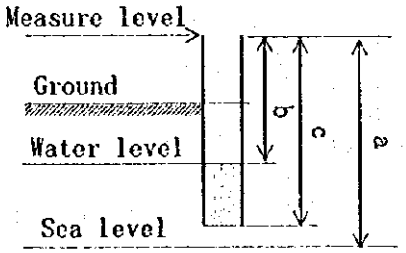


Table 2.2.4.2 Location and Water Level of Selected Observation Wells

Well No.			TM7	TM9	TM33	V1	V2	H2	H3	HS
Location (X - Y)	X	m	773563	773783	772512	772795	773132	774799	772298	772777
	Y	m	323807	323436	322407	323995	323609	323173	323395	323075
Well Edge Level		mBf	127.57	128.20	128.36	138.27	139.48	130.48	129.04	127.67
Depth of Well		m	6.00	6.00	7.40	17.00	19.00	9.00	12.50	6.50
		mBf	120.55	121.21	119.43	120.55	120.18	120.46	115.47	120.36
Ground Level		mBf	126.55	127.21	126.83	137.55	139.18	129.46	127.97	126.86
Filter	Lower	mBf	121.55	122.21	121.43	122.55	122.18	124.06	115.97	120.86
	Upper	mBf	123.55	124.21	123.43	124.55	128.18	126.06	119.97	124.86
Penetration Layer of Ground Water	Lower	mBf	121.65	121.11	121.43	122.55	122.18	122.66	115.97	120.86
	Upper	mBf	123.75	124.91	124.73	124.55	127.08	126.76	125.37	124.46
Ground Water Level	Height to Well Edge Level	m	2.64	27.76	2.89	12.31	13.24	5.32	2.13	1.48
		mBf	124.93	125.44	125.47	125.96	126.24	125.13	126.91	126.19

"mBf" means above sea level based on the Baltic Sea.

Table 2.2.4.3 Geographical Distribution of Sampling Points for Surface Water

Sampling No.	Location (X-Y)		Detailed sampling point
	X (m)	Y (m)	
TM-6'	323970	773110	Sampling of rainwater and leakage water at the side of Sludge Storage.
TM-12'	322990	773840	Sampling of rainwater and leakage water at the side of Sludge Storage.
V-2'	323630	773150	Sampling of puddle water at the Thick Sludge Storage.
C.W.	324440	772730	Sampling of puddle water at the Coal Cleaning Storage.
S.L.	323160	771450	Sampling of wastewater in Sump Pit at the side of the Stand-by Storage.
Sajo Up	323420	771820	Sampling of Sajo river water on the upper stream of Borsod Power Plant.
Sajo Dn.	321050	774270	Sampling of Sajo river water on the down stream of Borsod Power Plant.
Sajo A	322830	771930	Sampling of Sajo river water at the main stream.
Sajo B	322570	771950	Sampling of Sajo river water at the tributary side (intake side of Borsod Power Plant).
Bodva Up	325330	775200	Sampling of Bodva river water near the TM-30 point.
Bodva Dn.	324260	776240	Sampling of Bodva river water near the E-5 point.
Szuha	322490	774100	Sampling of Szuha river water on the down stream at junction of rain water and leakage water.

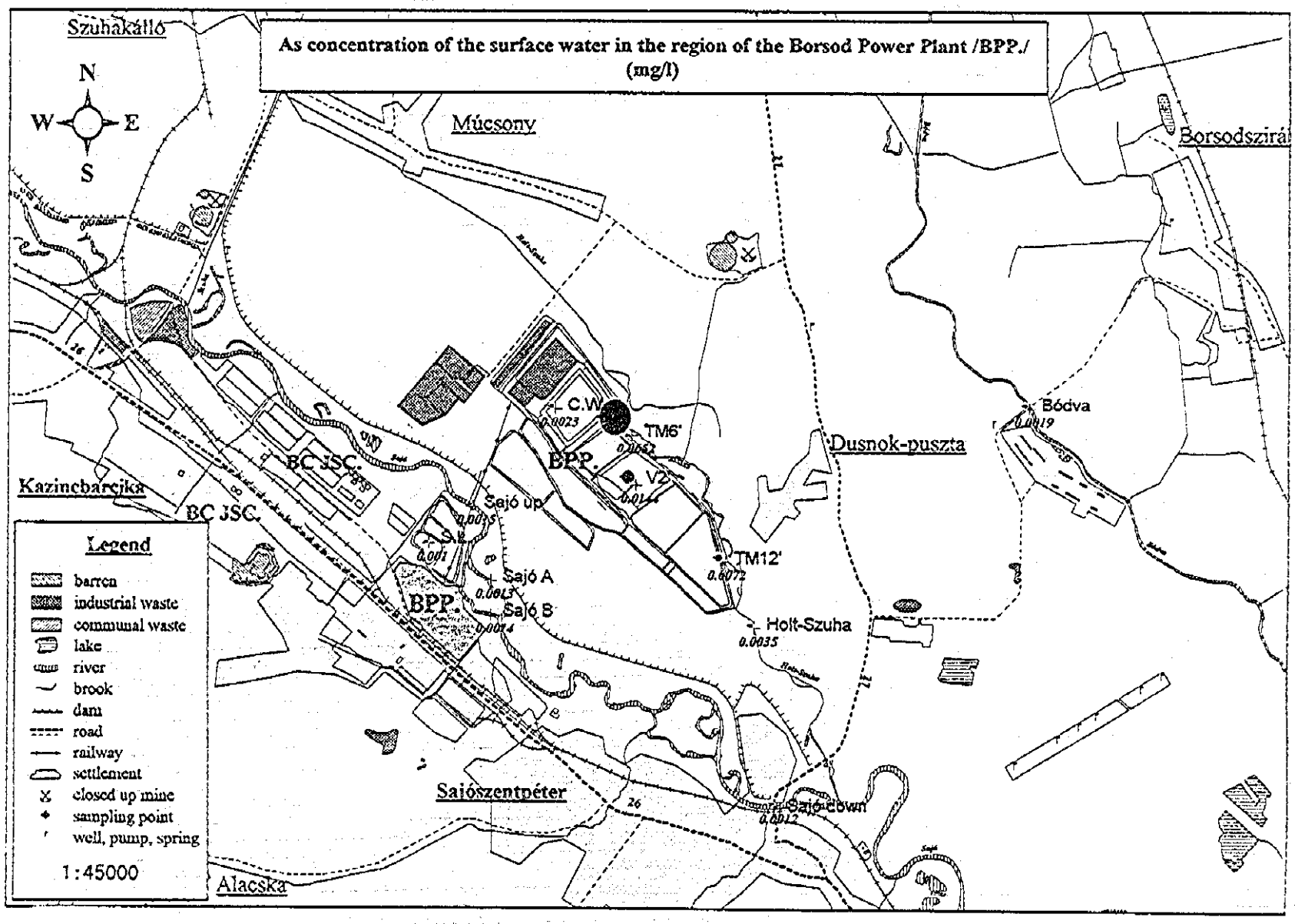


Figure 2.2.4.1 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (As : mg/l)

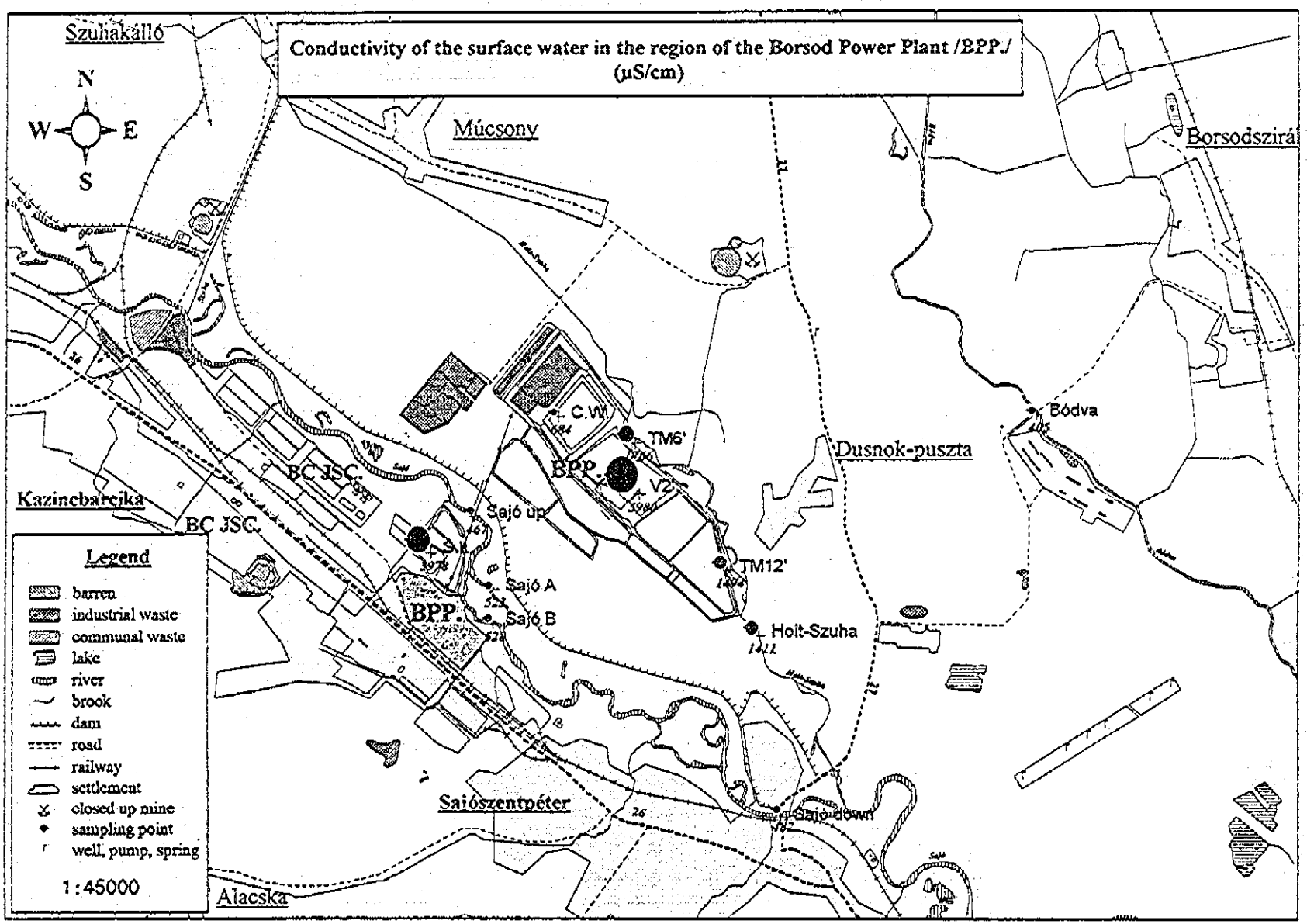


Figure 2.2.4.2 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant
(Electrical Conductivity : μ S/cm)

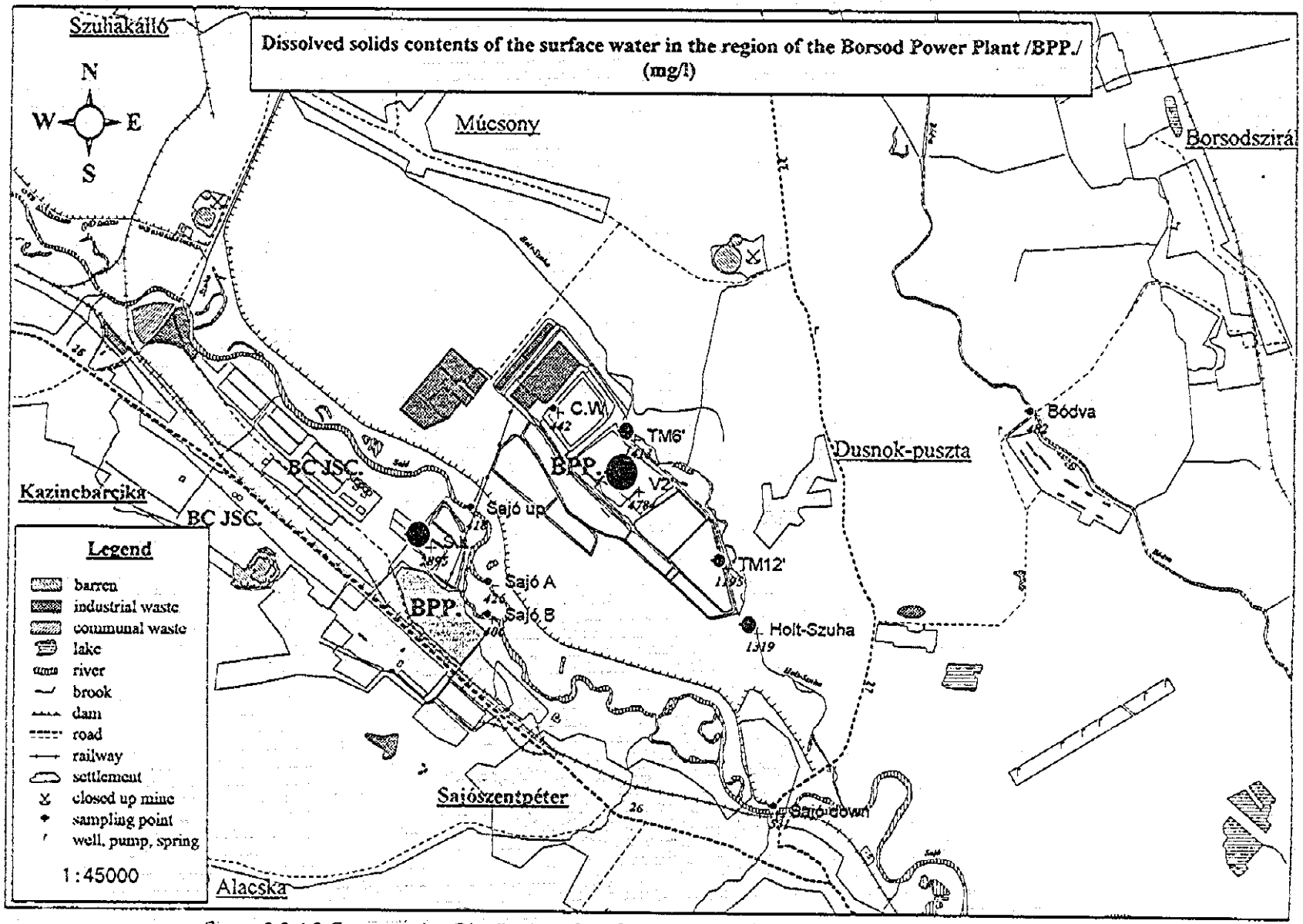


Figure 2.2.4.3 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant

(Dissolved Solids Contents : mg/l)

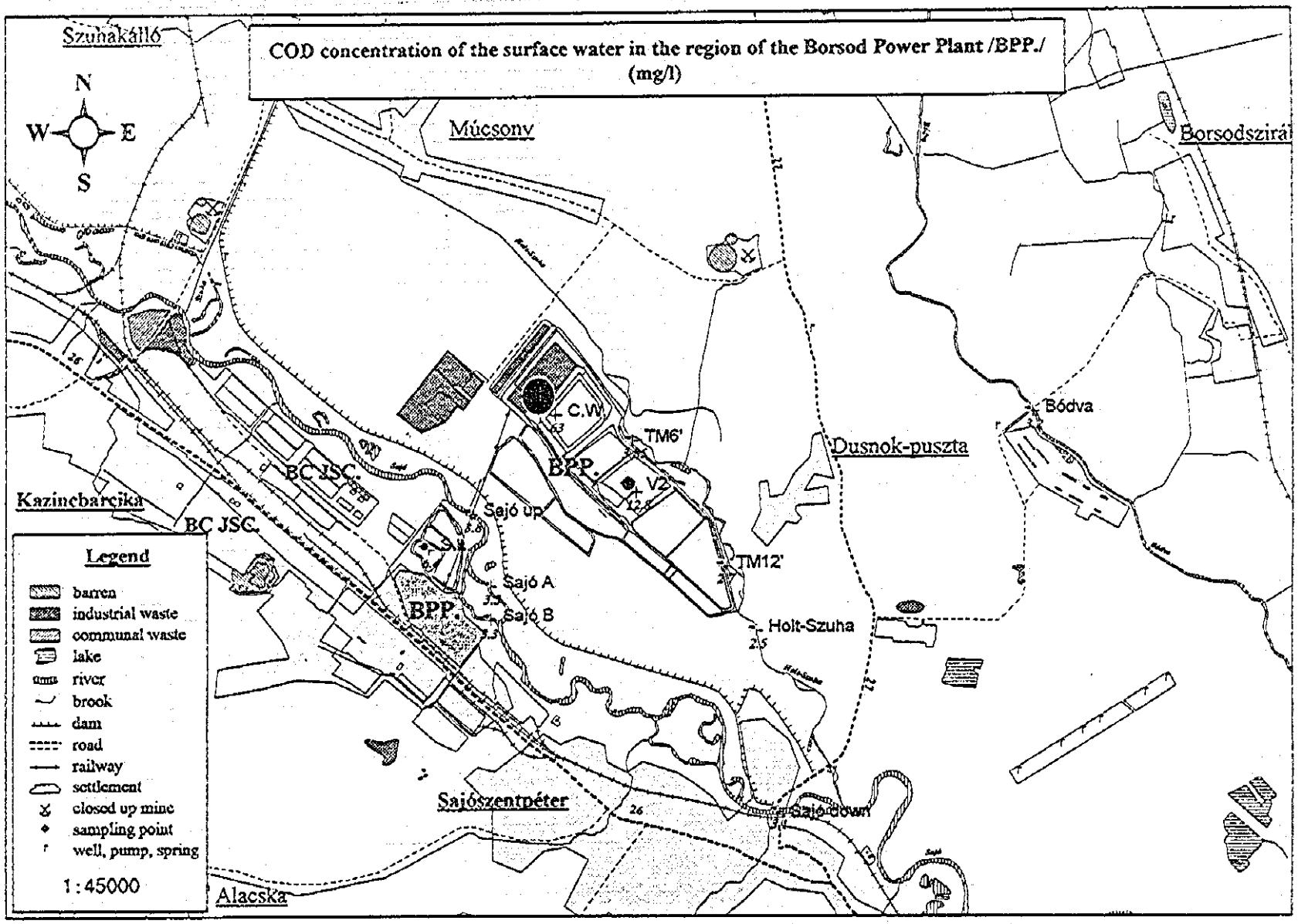


Figure 2.2.4.4 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (COD : mg/l)

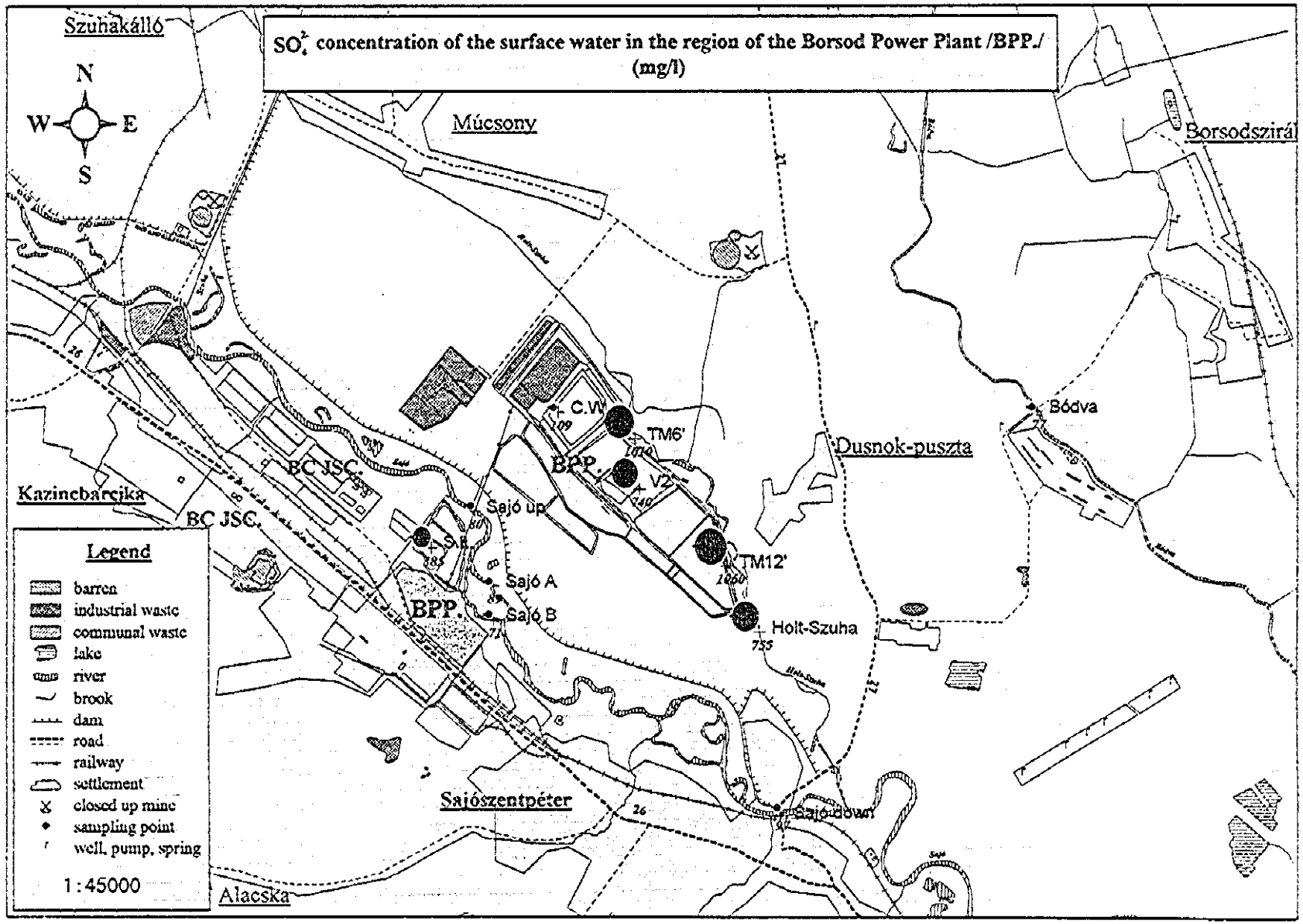


Figure 2.2.4.5 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (SO_4^{2-} : mg/l)

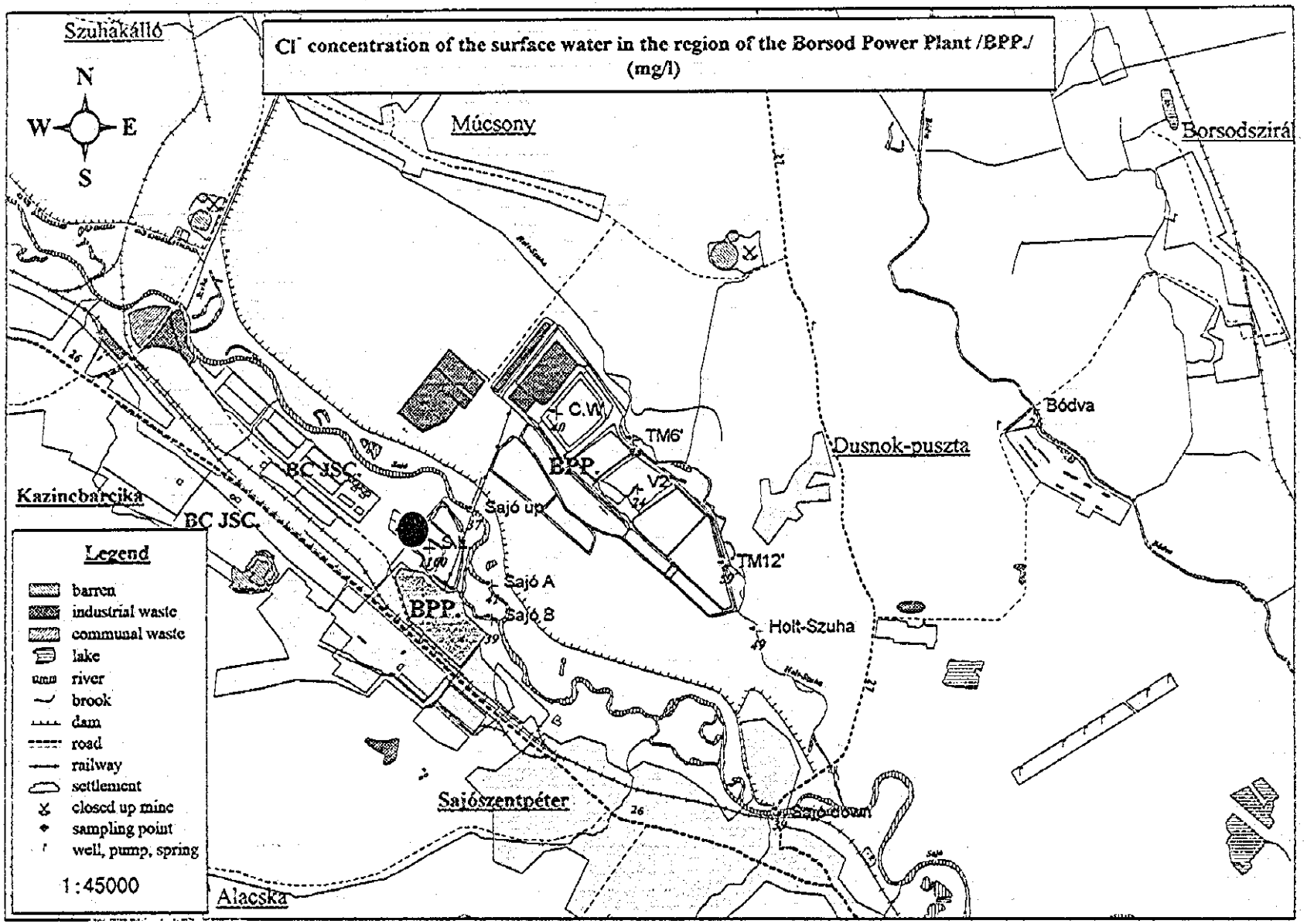


Figure 2.2.4.6 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (Cl⁻ : mg/l)

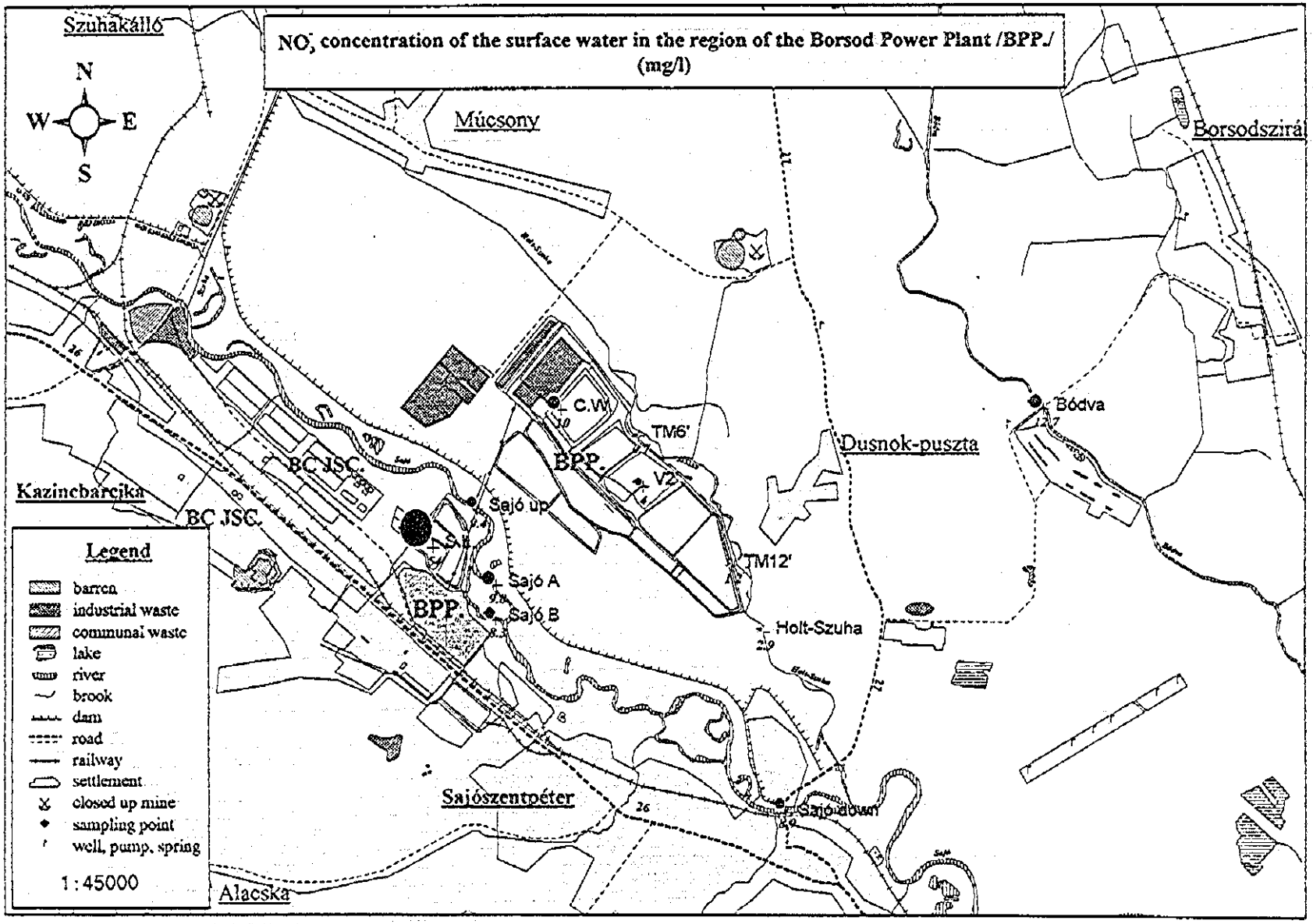


Figure 2.2.4 7 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (NO_3^- mg/l)

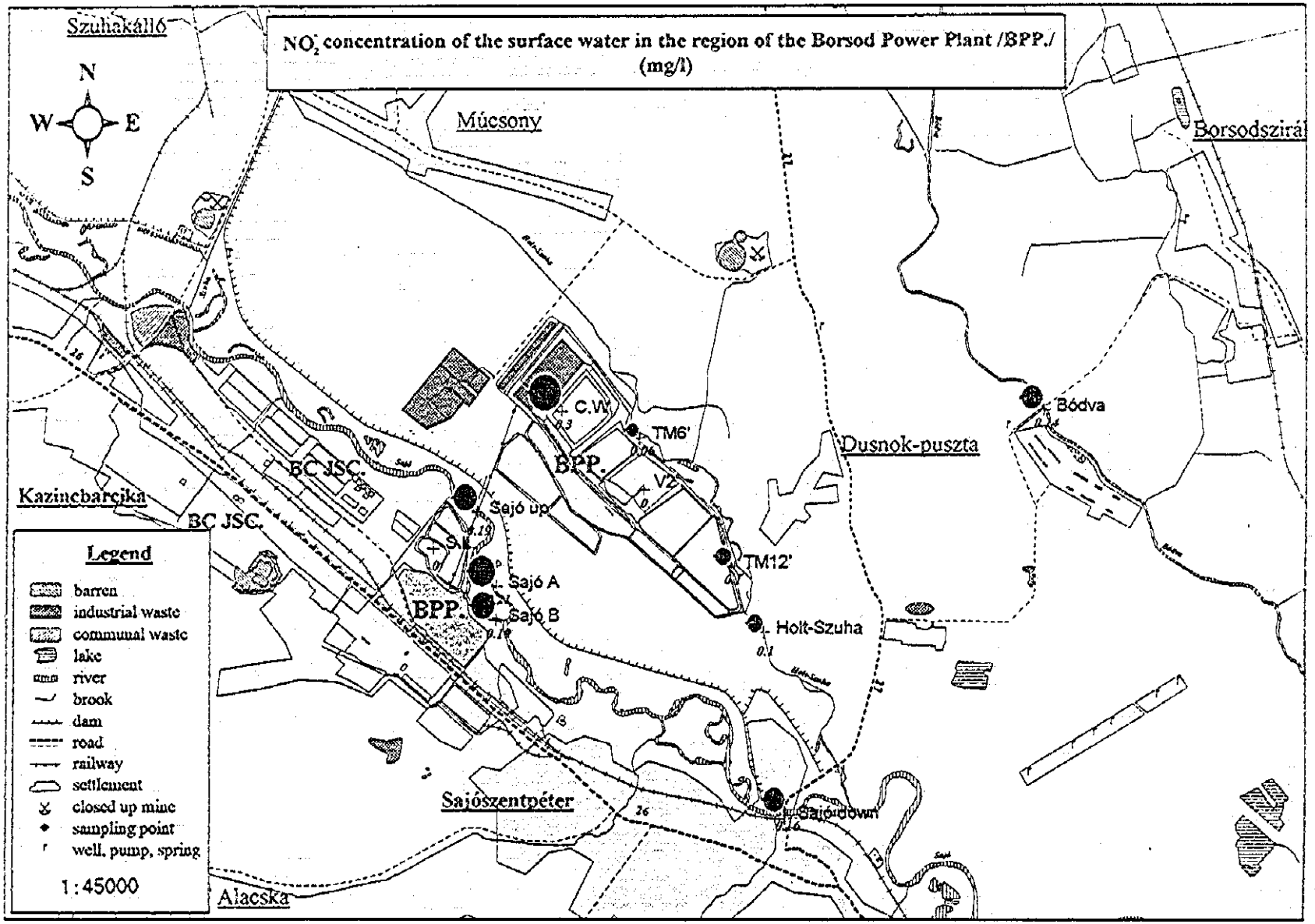


Figure 2.2.4.8 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (NO_2^- : mg/l)

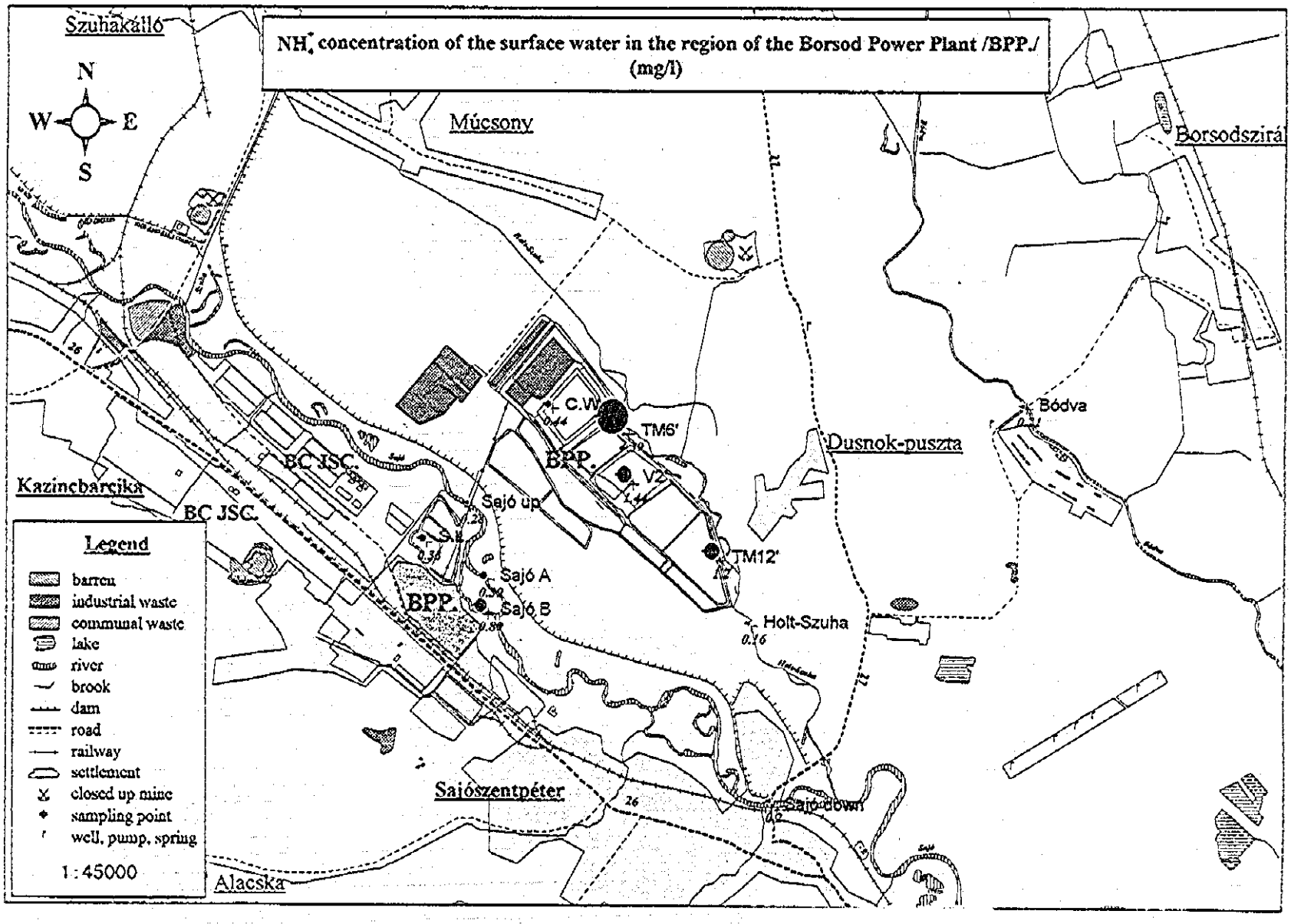


Figure 2.2.4.9 Concentration Distribution of the Surface Water in the Region of the Borsod Power Plant (NH_4^+ : mg/l)

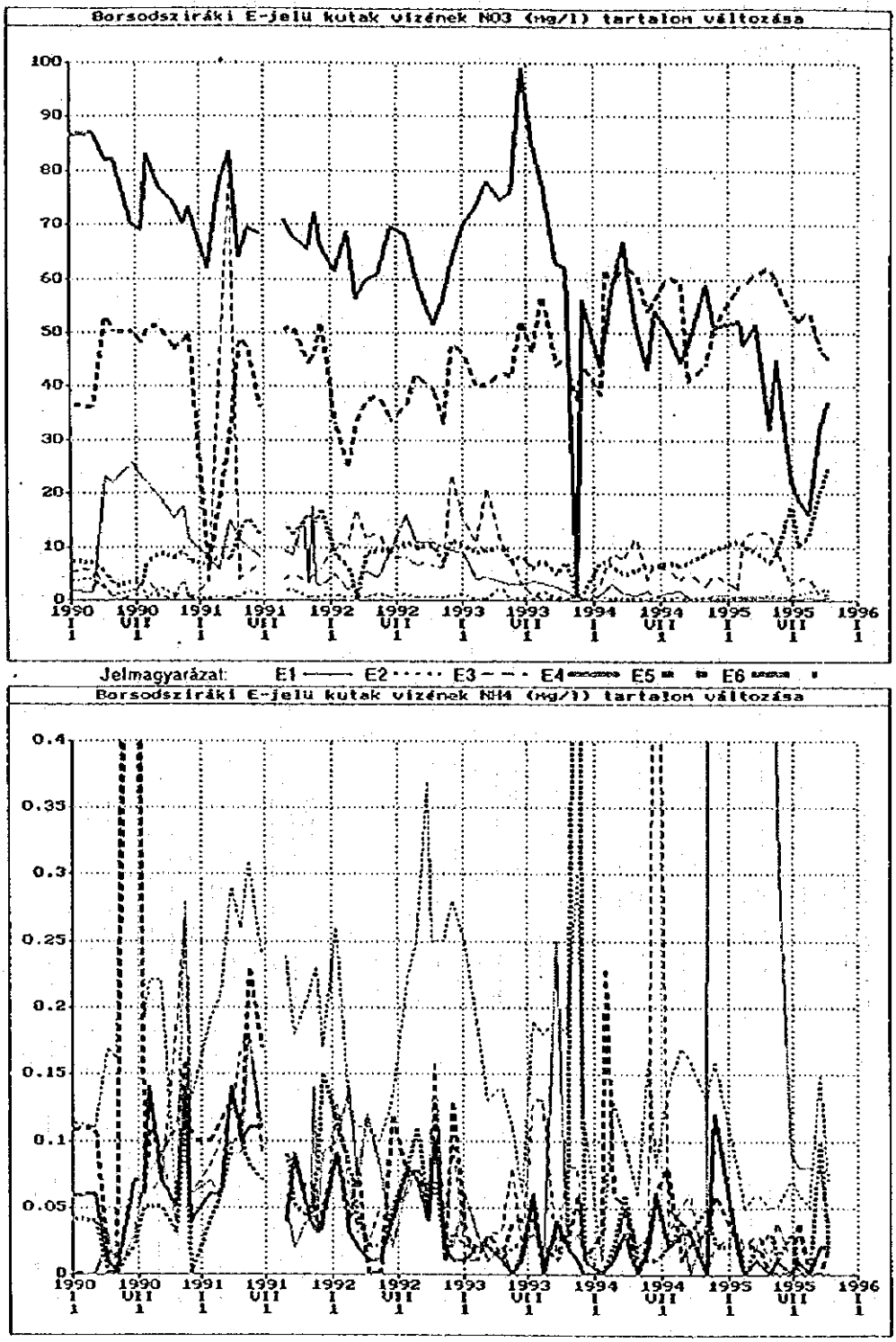


Figure 2.2.4.10 Annual Variation of NO_3^- and NH_4^+ Concentration Nearby the Source of City Water (E-1~E-6)

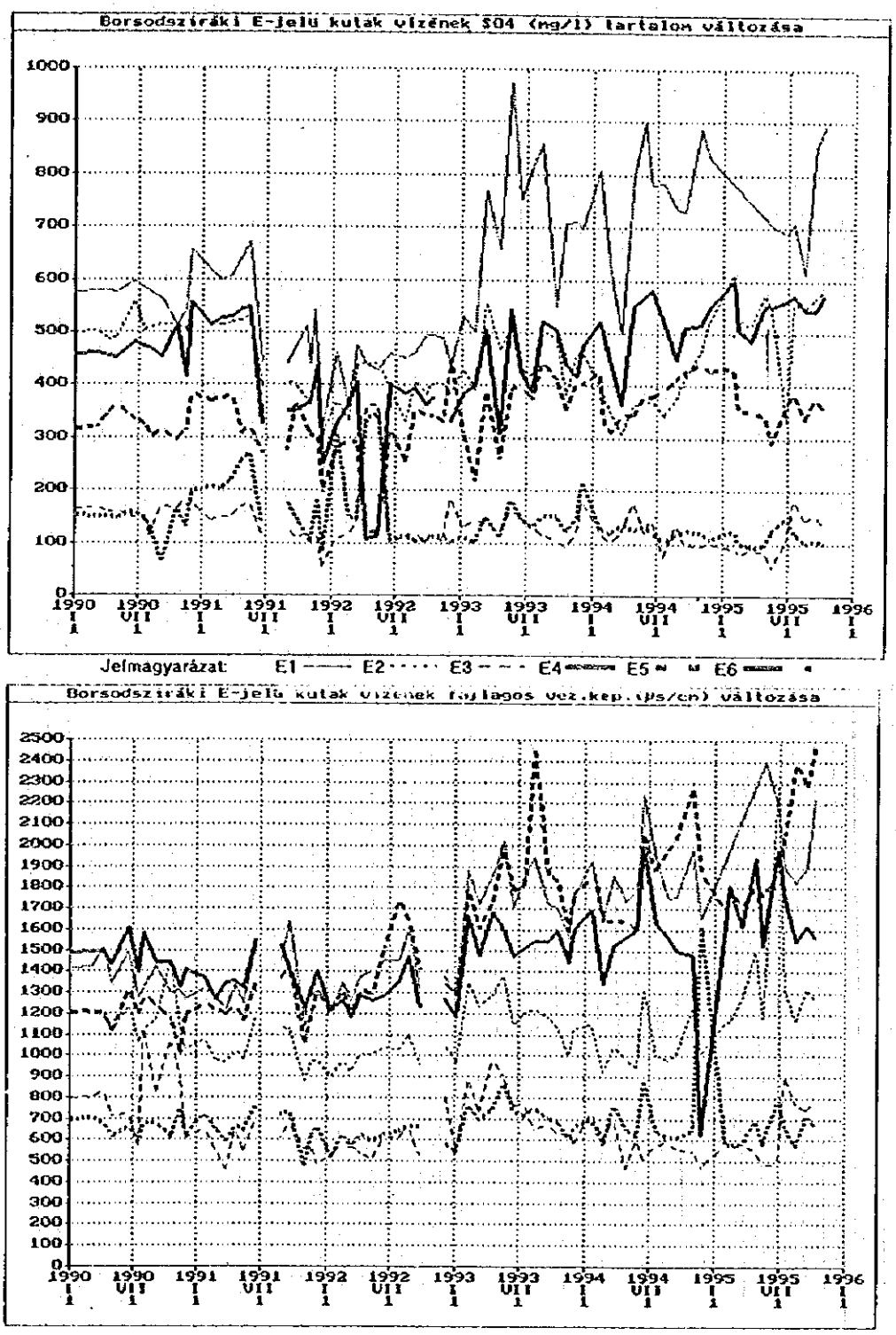


Figure 2.2.4.11 Annual Variation of SO_4^{2-} Concentration and Conductivity Nearby the Source of City Water (E-1~E-6)

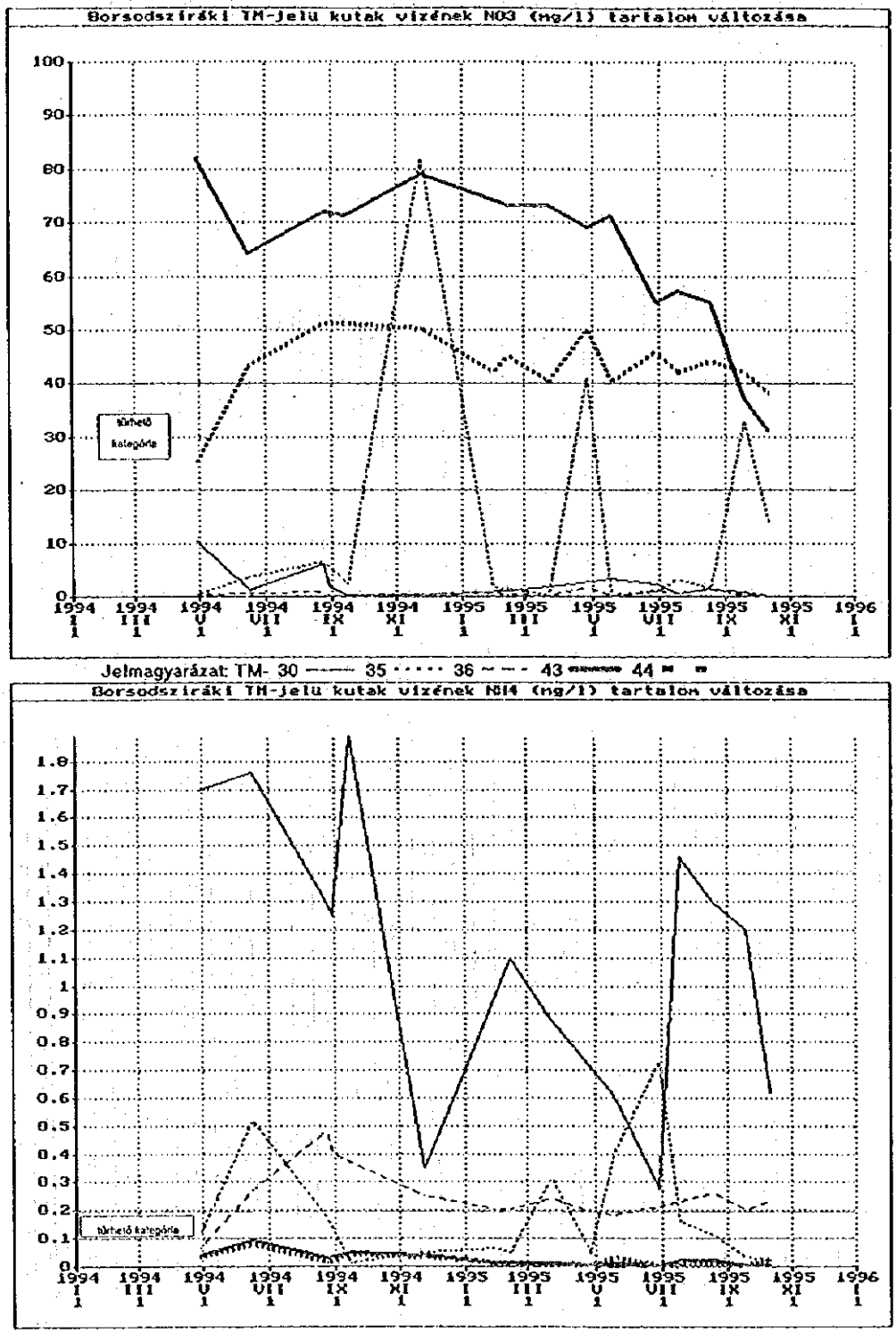


Figure 2.2.4.12 Annual Variation of NO_3^- and NH_4^+ Concentration Nearby the Source of City Water (TM-30, TM-35, TM-36, TM-43, TM-44)

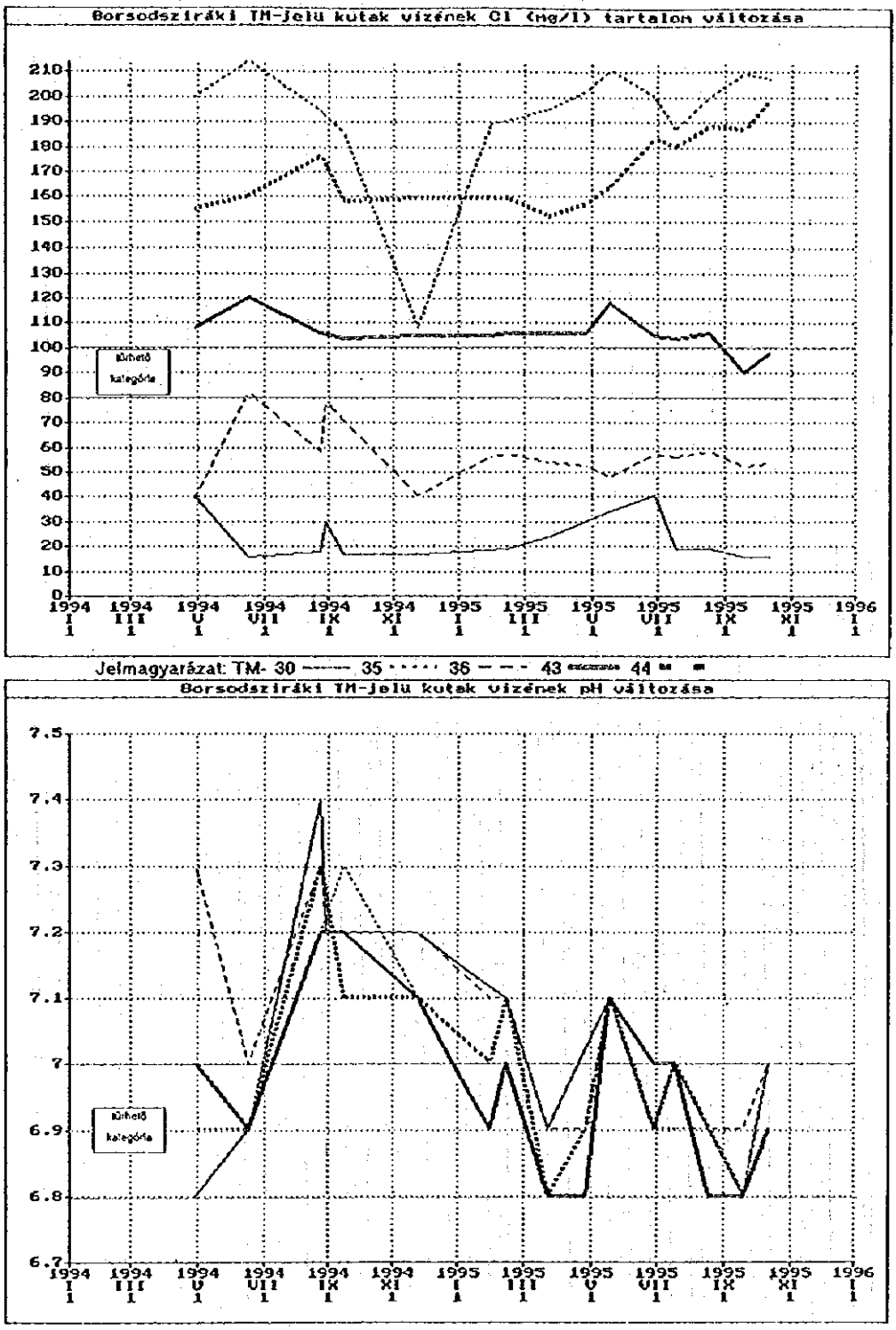


Figure 2.2.4.13 Annual Variation of Cl Concentration and pH Nearby the Source of City Water (TM-30, TM-35, TM-36, TM-43, TM-44)

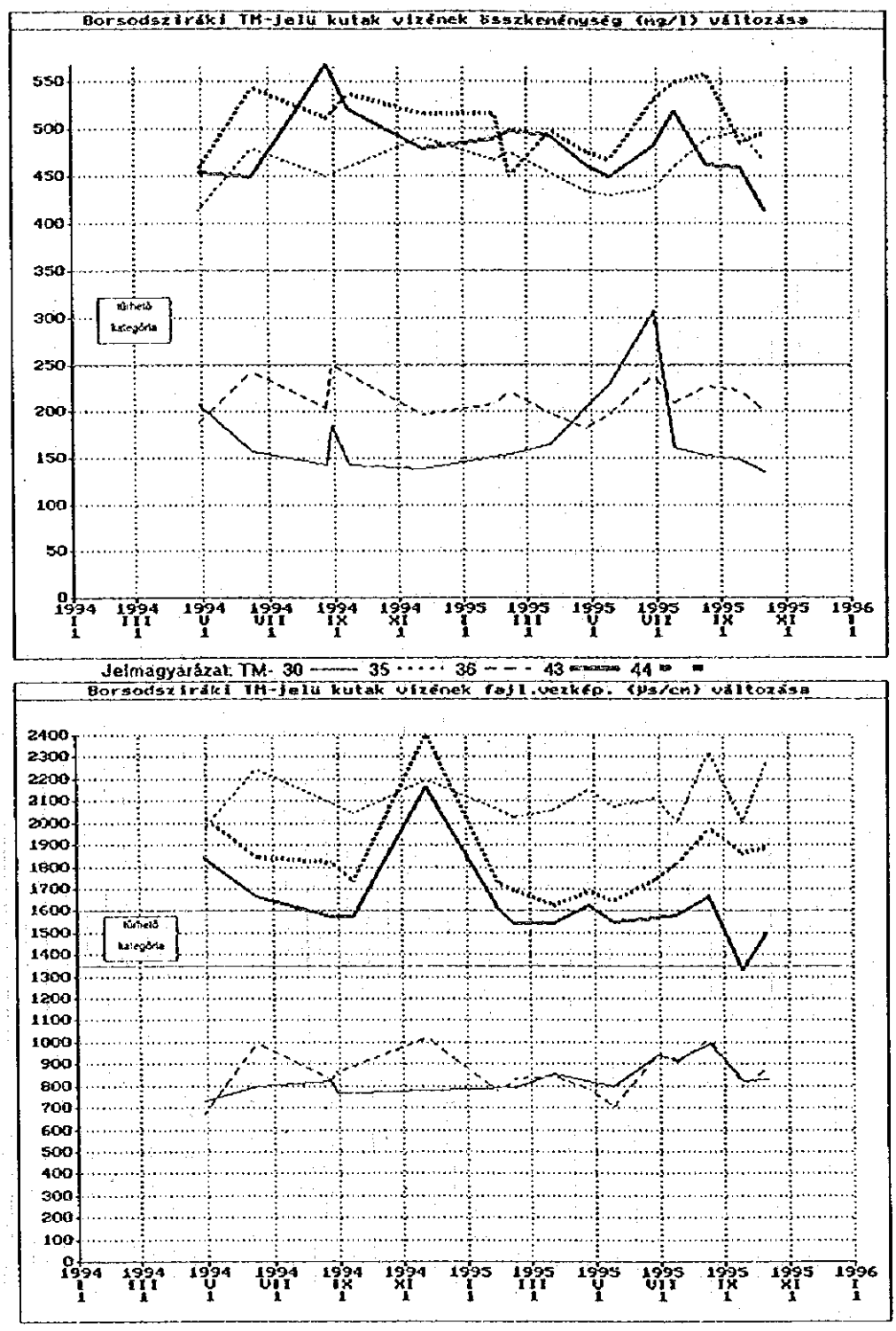


Figure 2.2.4.14 Annual Variation of Total Hardness and Conductivity Nearby the Source of City Water (TM-30, TM-35, TM-36, TM-43, TM-44)

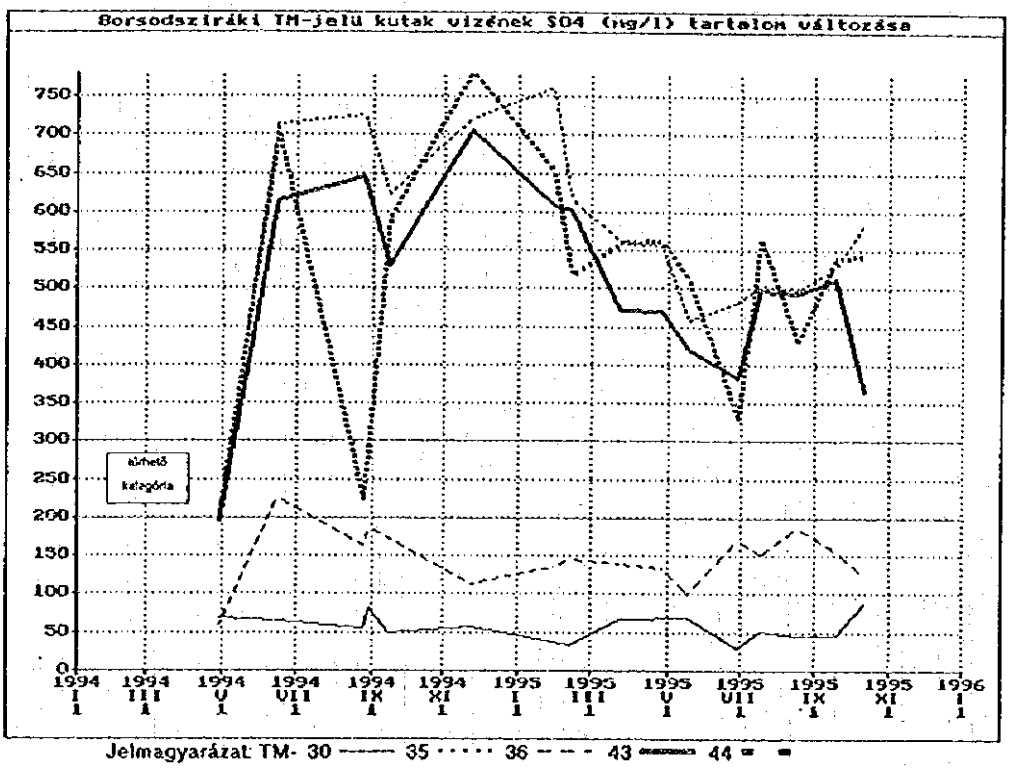


Figure 2.2.4.15 Annual Variation of SO_4^{2-} Concentration Nearby the Source of City Water (TM-30, TM-35, TM-36, TM-43, TM-44)

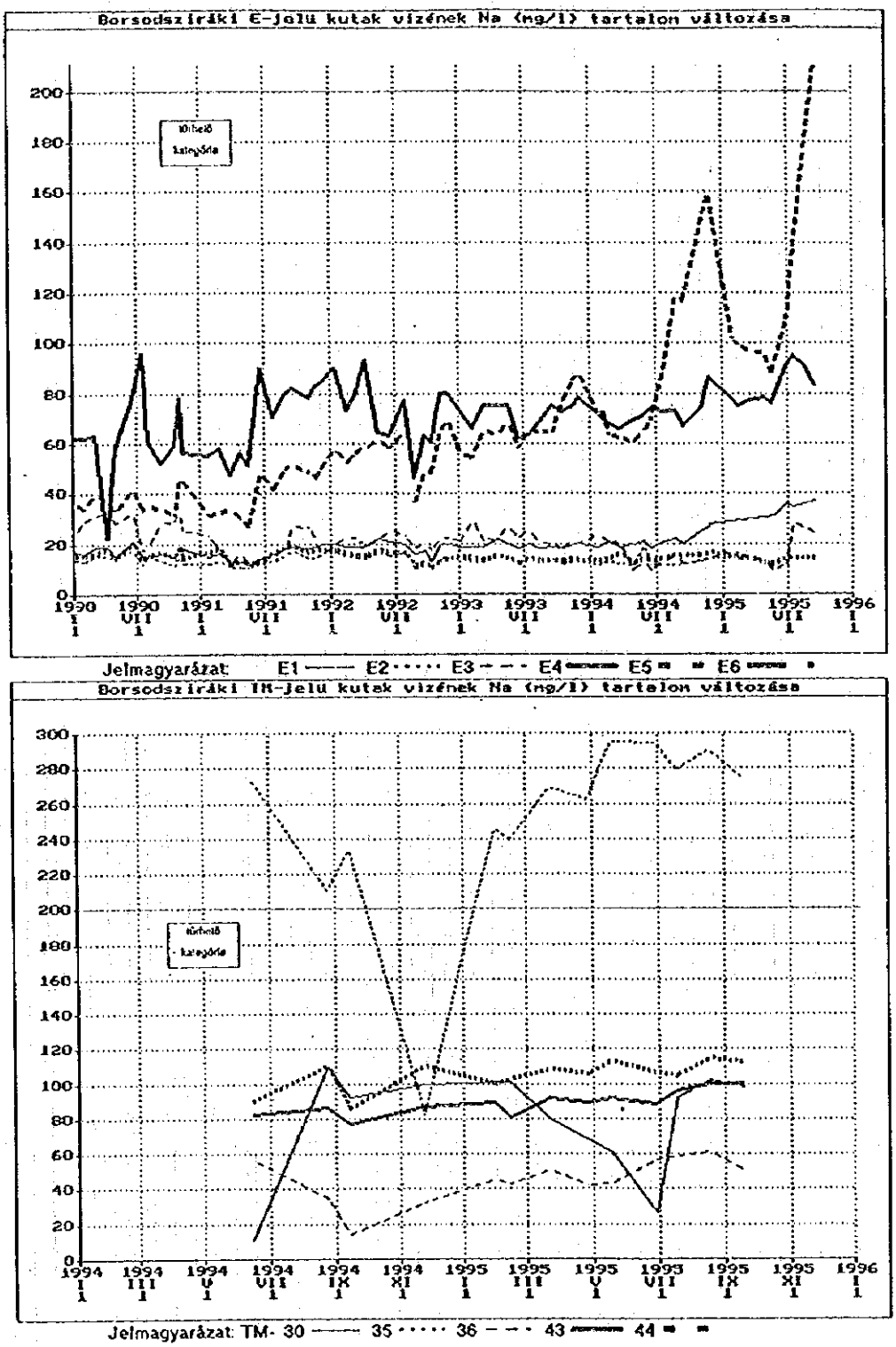


Figure 2.2.4.16 Annual Variation of Na^+ Concentration Nearby the Source of City Water (E-1~E-6, TM-30, TM-35, TM-36, TM-43, TM-44)

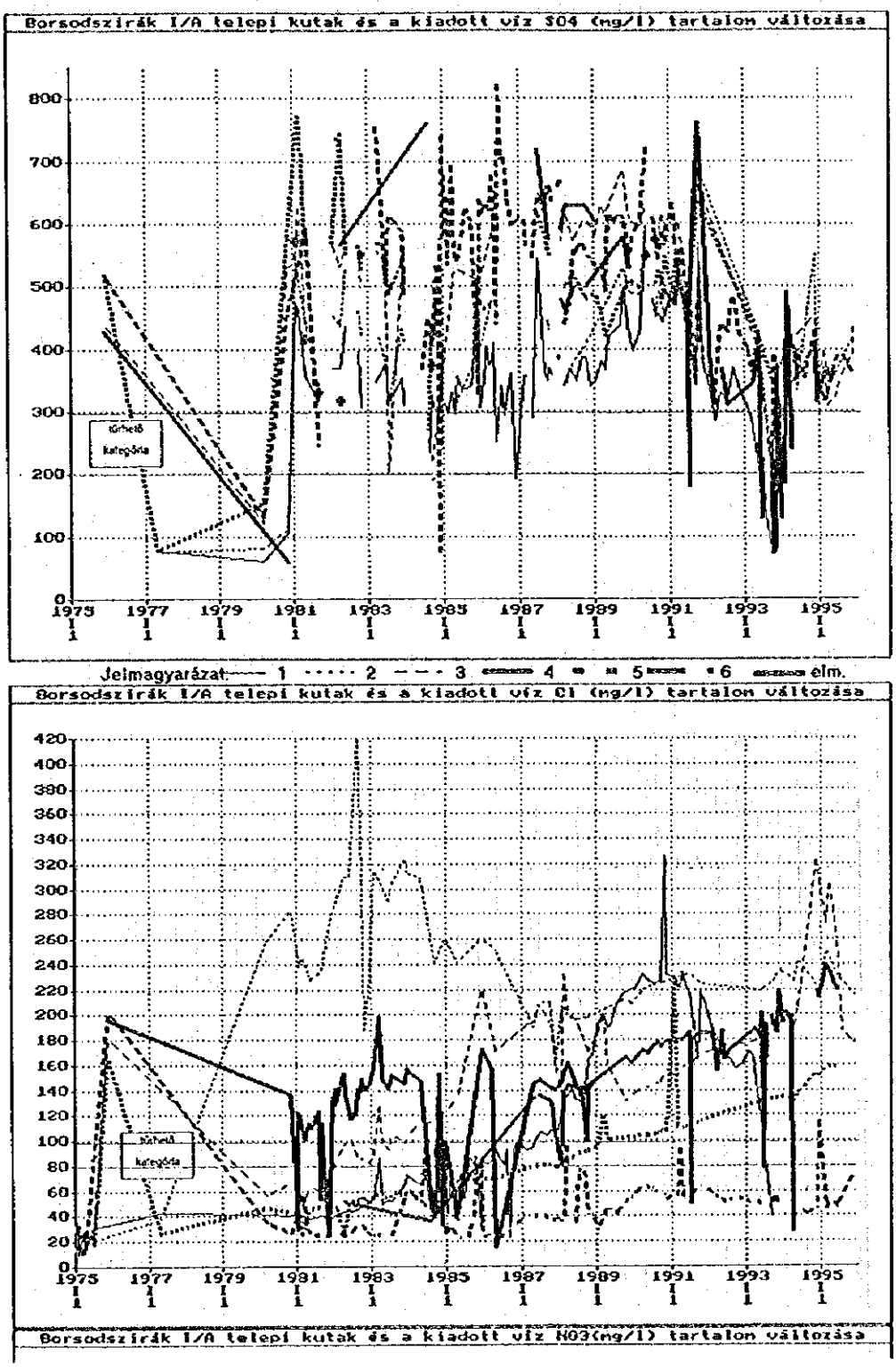


Figure 2.2.4.17 Annual Variation of SO_4^{2-} and Cl^- Concentration at Borsodszirak I/A

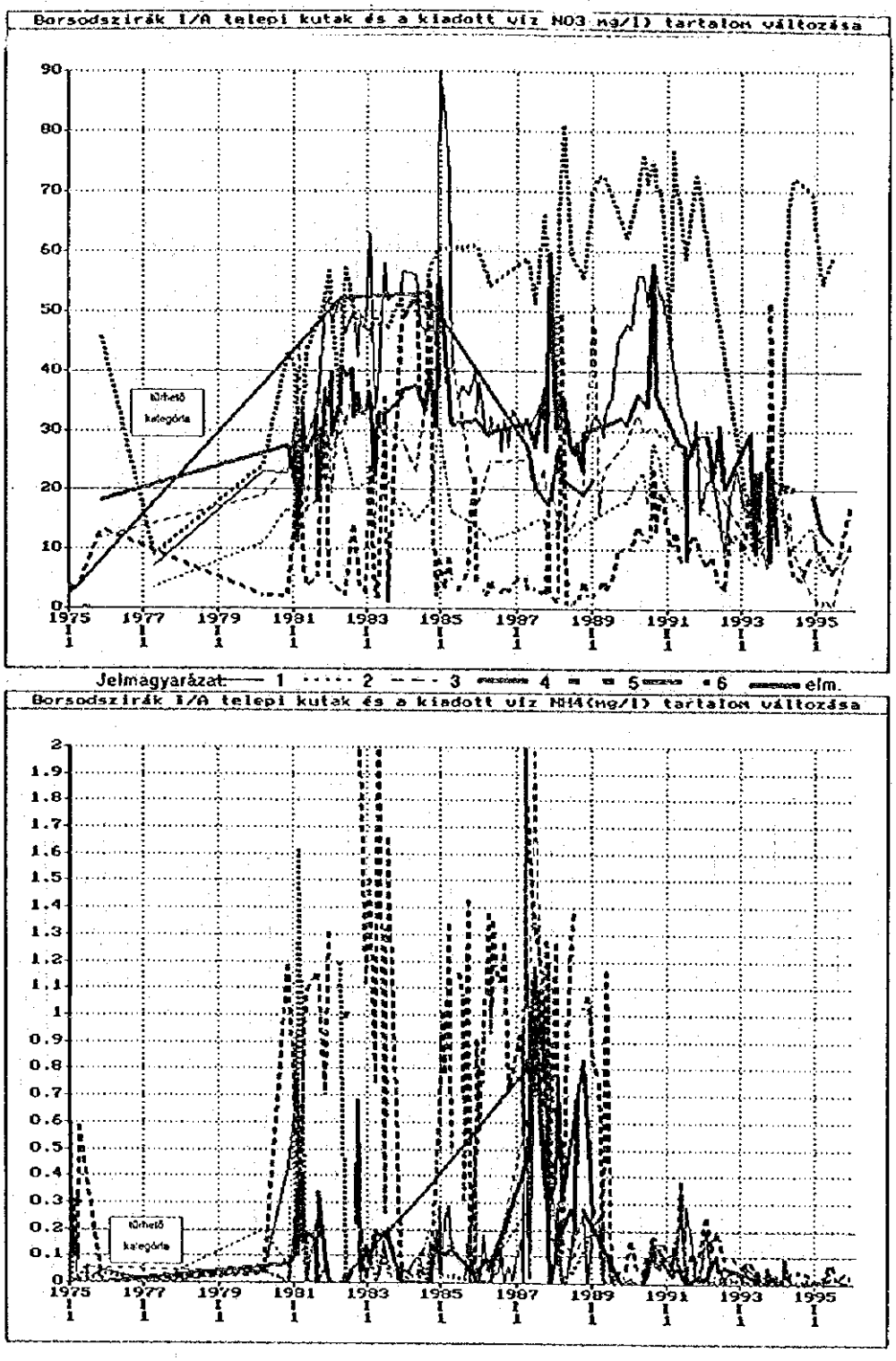


Figure 2.2.4.18 Annual Variation of NO_3^- and NH_4^+ Concentration at Borsodszirak I/A

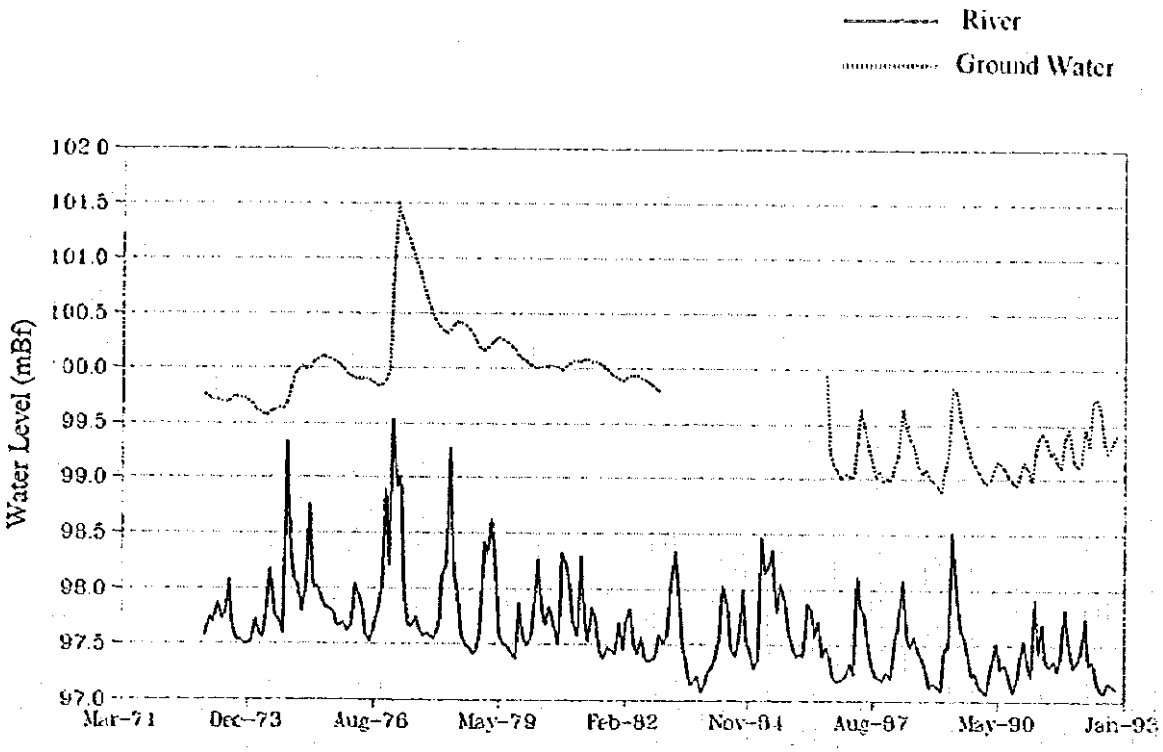
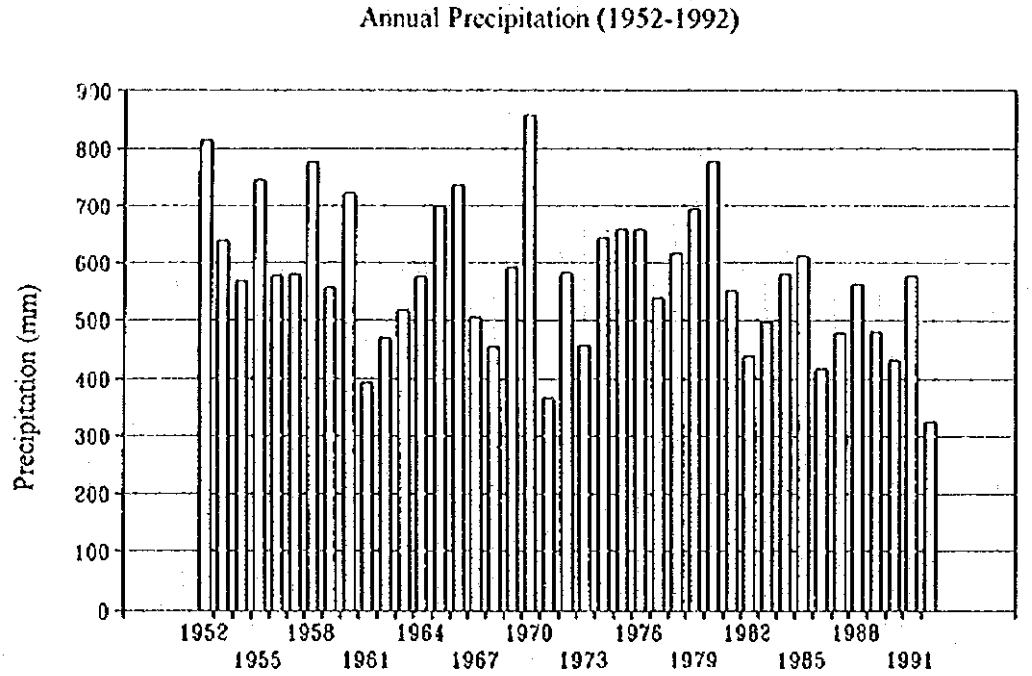


Figure 2.2.4.19 Water Level of Sajo River and Ground Water Level



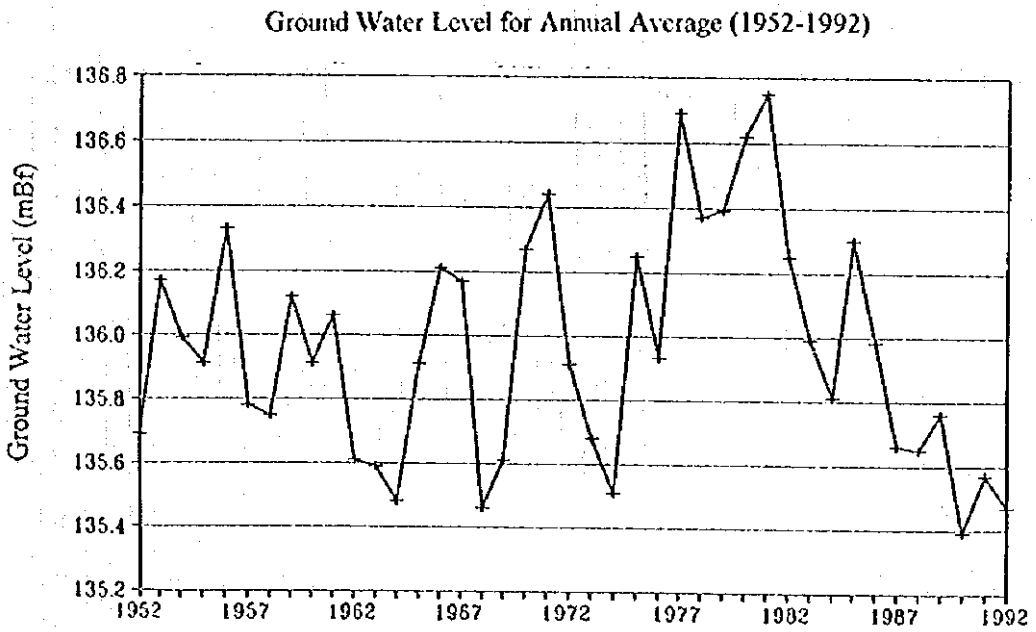
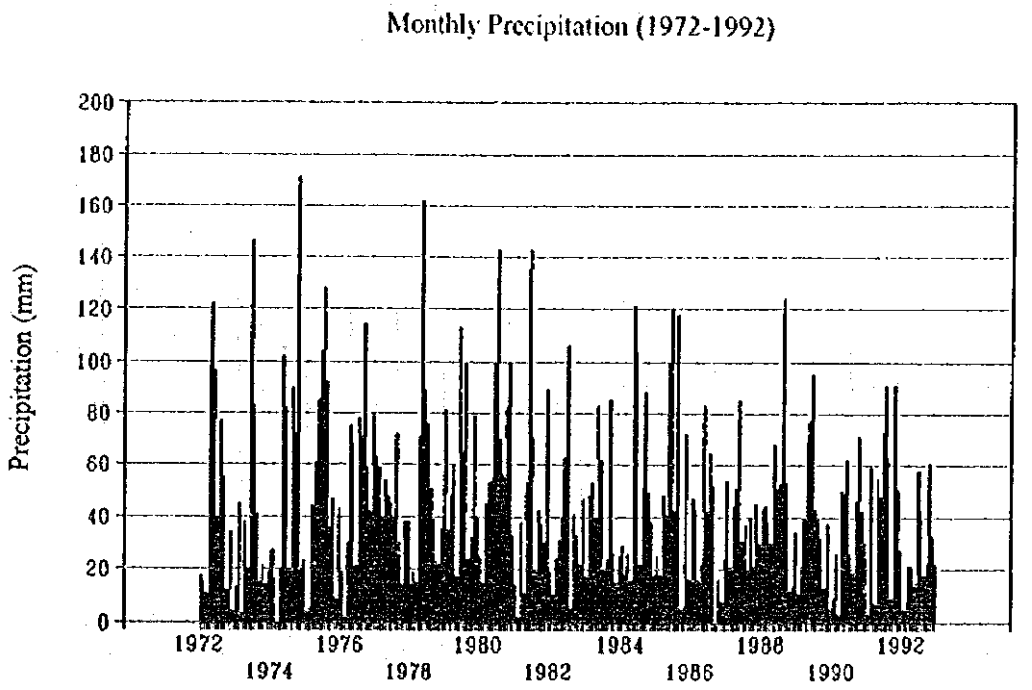


Figure 2.2.4.20 Annual Precipitation and Ground Water Level for Annual Average



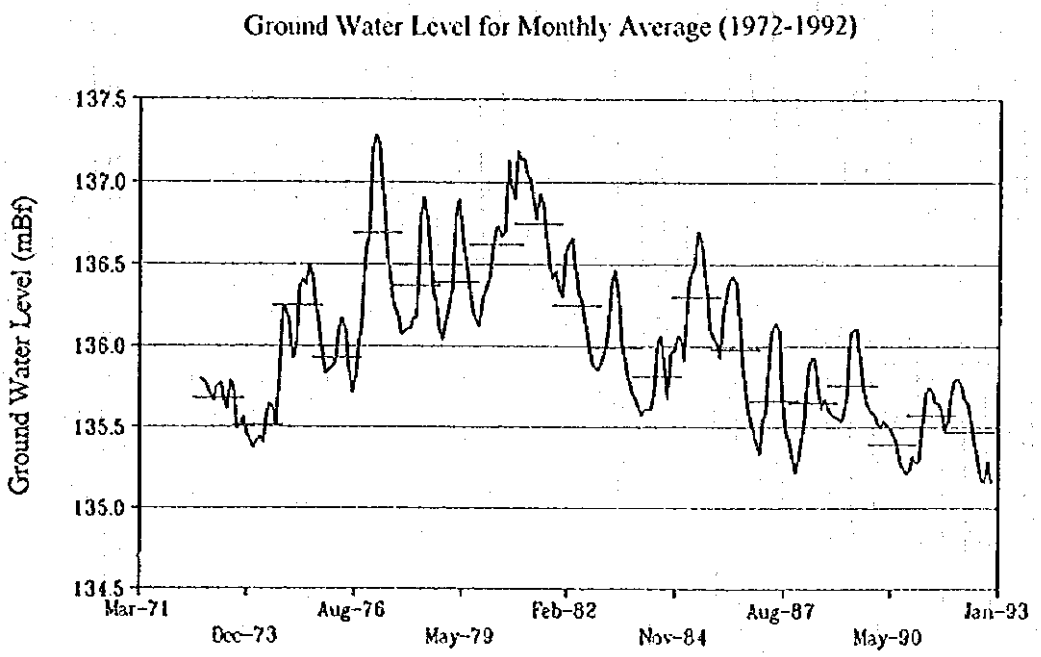
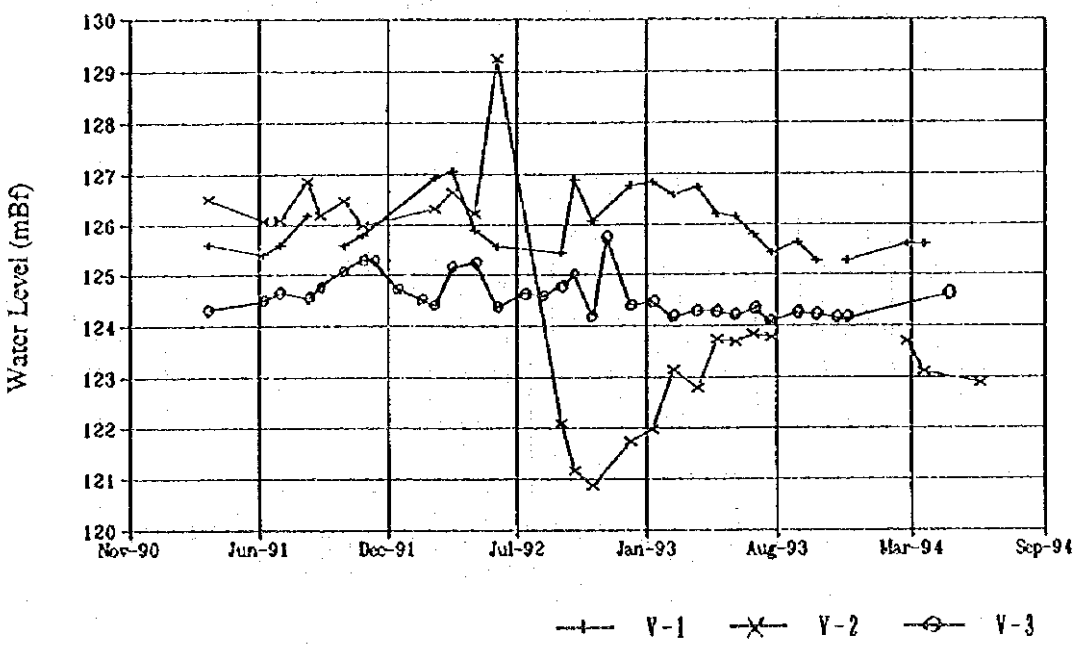


Figure 2.2.4.21 Monthly Precipitation and Ground Water Level for Monthly Average



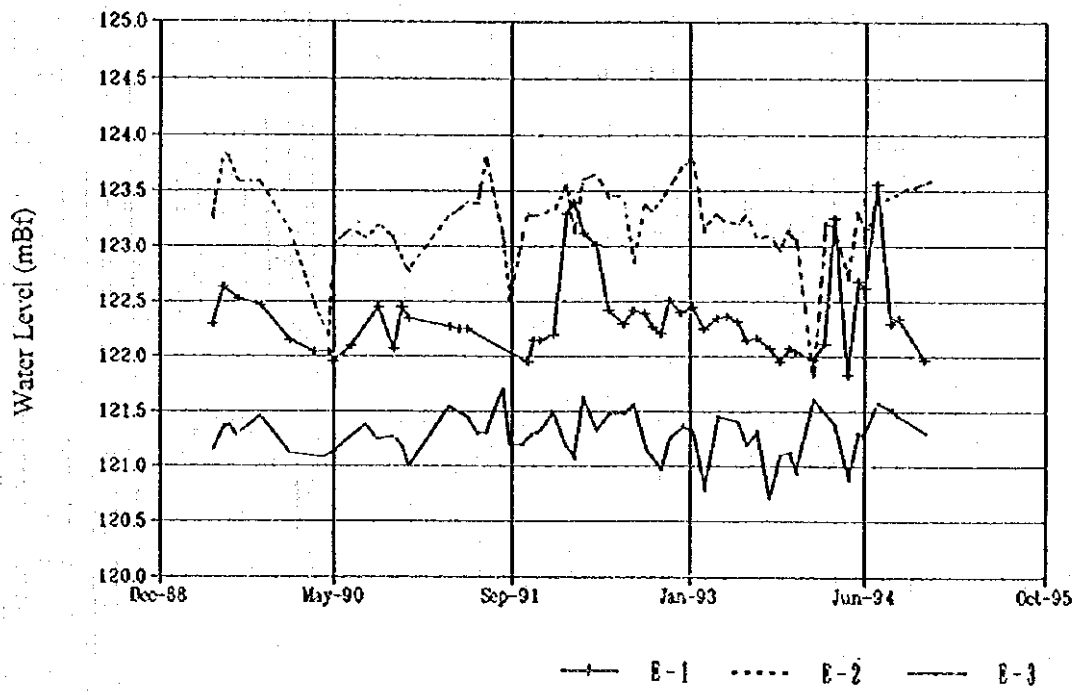


Figure 2.2.4.22 Variation of Ground Water Level at Monitoring Wells

2.2.5 Vegetation, Precious Species and Endemic Animals

TYPICAL PLANT SPECIES OF OAK FORESTS (QUERCETUM PETREAE-CERRIS) IN SURROUNDIG OF BPP

Quercus petreae
Quercus cerris
Acer campestre
Acer platanoides
Carpinus betulus
Populus tremula
Crataegus monogyna
Ligustrum vulgare
Cerasus avium
Coryllus avellana
Euonymus europeus
Rosa sp.
Dactylis polygama
Glechoma hederacea
Rubus sp.
Viola silvestris
Vicia cassubica
Festuca heterophylla
Melica uniflora
Poa pratensis
Poa nemoralis
Lathyrus vernus
Lathyrus niger
Pulmonaria officinalis
Stellaria holostea
Trifolium medium
Cruciata glabra
Fragaria vesca
Agrimonia eupatoria
Hypericum hirsutum
Geum urbanum
Trifolium medium
Trifolim rubra

Degradation indicator species
Eupatoria cannabinum
Galeopsis speciosa
Sambucus nigra
Geranium robertianum
Robinia pseudo-acacia
Rubus sp.
Sambucus ebulus
Urtica dioica
Phytolacca americana

TYPICAL PLANT SPECIES IN HOLM-OAK (QUERCO-CARPINETUM) FORESTS IN SURROUNDING OF BPP.

Quercus petrea
Carpinus betulus
Cerasus avium
Acer campestre
Acer pseudoplatanus
Cornus sanguinea
Crataegus monogyna
Euonymus europeus
Euonymus verrucosus
Fagus silvatica
Staphylea pinnata
Rubus caesius
Tilia platyphyllos
Carex pilosa
Dactylis polygama
Dactylis glomerata
Glechoma hederacea
Heraclenum sphondylium
Lamium galeobdolon
Lathyrus vernus
Pulmonaria officinale
Symphytum tuberosum
Viola sylvestris
Veronica chamaedrys
Gallium verum
Fragaria vesca
Veronica officinalis
Hypericum sp.
Viola odorata
Asarum europeum
Galium schultesii
Poa nemoralis
Mellica uniflora

Degradation indicator species

Calamagrostis epigeios
Circaea lutetiana
Convolvulus arvensis
Eupatorium cannabinum
Galeopsis speciosa
Geranium robertianum
Sambucus nigra
Sambucus ebulus
Rubus caesius
Urtica dioica

TYPICAL PLANT SPECIES IN WOODED GRASSLANDS IN SURROUNDING OF BPP.

Achillea collina
Agrimonia eupatoria
Agrostis stolonifera
Ajuga genevensis
Alopecurus pratensis
Anthoxanthum odoratum
Anthriscus silvestris
Anthyllis macrocephala
Centaurea micranthos
Cerastium vulgare
Cerasus avium
Chenopodium album
Chrysanthemum leucanthemum
Crataegus monogyna
Cynoglossum officinale
Cynosurus cristatus
Daucus carota
Dianthus deltoides
Dorycnium herbaceum
Eryngium campestre
Euphorbia cyparissias
Festuca pratensis
Festuca rubra
Festuca valesiaca
Fragaria vesca
Galium mollugo
Galium verum
Geum urbanum
Glechoma hederacea
Helianthemum ovatum
Hieracium bauhinii
Hieracium pilosella
Hypericum perforatum
Leontodon hispidus
Ligustrum vulgare
Lotus corniculatus
Luzula campestris
Lysimachia nummularia
Pimpinella saxifraga
Plantago lanceolata
Plantago major
Plantago media
Poa compressa
Polygala comosa
Populus tremula
Potentilla heptaphylla
Potentilla reptans
Prunus spinosa
Quercus cerris
Quercus petrea
Ranunculus polyanthemos
Rosa canina
Salix cinerea
Sanguisorba minor
Senecio jacobaea
Sesseli annuum
Taraxacum officinale
Thymus glabrescens
Tifolium repens
Trifolium alpestre
Trifolium campestre
Trifolium pratense
Urtica dioica
Veronica chamaedrys
Veronica officinalis
Viola canina

TYPICAL PLANT SPECIES IN SECUNDARY STEPPE (CLEAR CUTTED AREAS OR ABANDONED AGRICULTURAL AREAS, WHICH BECOMES SPECIAL VEGETATION FORMS. ITS CALLED SECUNDARY STEPPE) IN SURROUNDING OF BPP.

Achillea millefolium
Agrimonia eupatoria
Anthericum sp.
Aster linosyris
Betonica officinale
Briza media
Campanula patula
Carduus nutans
Carex hirta
Carlina vulgaris
Centaurium erythraea
Cirsium eriophorum
Clinopodium vulgare
Cornus sanguinea
Corylus avellana
Crataegus monogyna
Cytisus nigricans
Dorycnium herbaceum
Erigeron canadensis
Eryngium campestre
Euphorbia cyparissias
Festuca pseudovina
Festuca rupicola
Festuca valensiaca
Filipendula vulgaris
Galium aparine
Hieracium sp.
Hypericum sp.
Inula salicina
Knautia arvensis
Lathyrus latifolius
Ligustrum vulgare
Origanum vulgare
Pimpinella saxifraga
Plantago lanceolata
Plantago media
Prunella vulgaris
Prunus spinosa
Pulmonaria mollissima
Rosa canina
Rosa gallica
Rubus sp.
Rumex acetosa
Salix caprea
Serratula tinctoria
Teuchrium chamedrys
Thymus sp.
Trifolioum aureum
Trifolium arvense
Veronica chamaedrys
Veronica officinalis
Veronica spicata
Viburnum opulus
Vincetoxicum hirundinaria
Viola odorata

TYPICAL PLANT SPECIES IN ALLUVIAL FORESTS IN SURROUNDING OF BPP.

Salix alba
S. fragilis
S. purpurea
Populus alba
P. nigra
Acer negundo

Angelica silvestris
Arctium nemorosum
Aster parviflorus
Chelidonium majus
Ficaria verna
Typhoides arundinaceae
Lamium maculatum
L. purpureum
Humulus lupulus
Clematis vitalba
Vitis silvestris
Rubus caesius
Ranunculus repens
Stellaria media
Heracleum sphondylum

Degradation indicator species
Urtica dioica
Solidago canadensis
Calistegia, sepium
Arctium lappa
Calamagrostis epigeios
Rumex acetosa
Polygonum japonica
Polygonum lapathifolium
Agrostis alba

TYPICAL PLANT SPECIES IN FLYASH LANDFILL OF BPP.

Agropyron repens
Ambrosia elatior
Apera spica-venti
Arctium lappa
Artemisia vulgaris
Barbarea vulgaris
Berteroa incana
Calamagrostis epigeios
Carduus acanthoides
Chenopodium spp.
Chrysanthemnum vulgare
Cirsium vulgare
Crepis rhoeadifolia
Cynodon dactylon
Datura stramonium
Descurainia sophia
Digitaria sanguinalis
Echinochloa crus-galli
Echium vulgare
Erigeron canadensis
Hibiscus trionum
Inula britannica
Kochia scoparia
Lactuca saligna
Lactuca serriola
Lepidium ruderale
Linaria vulgaris
Matricaria maritima ssp. inodora
Melilotus officinalis
Oenothera biennis
Picris hieracioides
Plantago media
Polygonum aviculare
Polygonum lapathifolium
Rumex spp.
Setaria lustescens
Sisymbrium strictissimum
Tussilago farfara
Xanthium spinosum

SOME TYPICAL INVERTEBRATE SPECIES IN SURROUNDING OF BPP.

Mollusca

Cepaea vindobonensis
Helix pomatia

Arthropoda

Agonum dorsale
Araschnia levana
Andricus collari
Bibio hortulanus
Blepharita satura
Chantaris fusca
Calliphora erythrocephala
Cetonia aurata
Chortippus dorsatus
Chortippus albomarginatus
Euchortippus declivus
Inachis io
Panorpa communis
Coccinella septempunctata
Diplolepsis roseae
Ephippigera ephippiger
Formica rufa
Formica gagates
Graphosoma lineatum
Gryllus campestris
Ixodes ricinus
Lithobius forficarius
Microtrombidium pusillum
Polygonia c-album
Pieris napi
Tetramorium caespitum
Tettigonia viridissima

TYPICAL VERTEBRATA SPECIES IN SURROUNDING OF BPP.

Pisces

name of species	distribution	
Anguilla anguilla	Sajó river	
Rutilus rutilus	Sajó river, Holt-Szuha stream, Szuha stream, Bódva river	
Scardinius erythrophtalamus	Sajó river	
Leuciscus leuciscus	Sajó river, Holt-Szuha stream, Bódva river	
Leuciscus cephalus	Sajó river, Holt-Szuha stream, Szuha stream, Bódva river	
Aspius aspius	Sajó river, Bódva river	
Leucaspius delineatus	Sajó river, Holt-Szuha stream	*
Alburnus alburnus	Sajó river, Holt-Szuha stream, Bódva-river	
Alburnoides biunctatus	Sajó river, Bódva river	*
Blicca bjoerkna	Sajó river	
Ambramis brama	Sajó river	
Vimba vimba	Bódva river	
Chondrostoma nasus	Sajó river, Bódva river	
Tinca tinca	Sajó river, Holt-Szuha stream	
Barbus barbus	Sajó river, Szuha stream, Bódva river	
Barbus peloponnesius petényi	Szuha stream, Bódva river	
Gobio gobio	Sajó river, Szuha stream, Bódva river	
Gobio kessleri	Bódva river	*
Pseudorasbora parva	Sajó river, Holt-Szuha stream	
Rhodeus sericeus amarus	Sajó river, Holt-Szuha stream, Bódva river	
Carassius carassius	Sajó river, Holt-Szuha stream	
Carassius auratus	Sajó river, Holt-Szuha stream, Bódva river	
Cyprinus carpio	Sajó river	
Hypothalmycthys molitrix	Sajó river	
Arystichthys nobilis	Sajó river	
Orthrias barbatulus	Bódva river	
Cobitis taenia	Bódva river	*
Sabanajewia aurata	Bódva river	*
Silurus glanis	Sajó river	
Ictalurus nebulosus	Sajó river	
Esox lucius	Sajó river, Holt-Szuha stream, Bódva river	
Lota lota	Bódva river	
Lepomis gibbosus	Sajó river, Holt-Szuha stream	
Perca fluviatilis	Sajó river, Holt-Szuha stream, Bódva river	
Stizostedion lucioperca	Sajó river, Bódva river	
Zingel streber	Bódva river	

Note
* : Protected Species

Amphibia:

Bufo viridis	Widespread species	*
Pelobates fuscus	Rare appear	*
Hyla arborea	Widespread in alluvial forests	*
Rana arvalis	Rare appear	*
Rana dalmatina	Rare appear in larger forest	*
Rana esculenta	Widespread along greater water body	*
Rana ridibunda	Widespread along greater water body	*

Reptilia

Lacerta viridis	Widespread in grassland or wooded grassland	*
Lacerta agilis	Widespread species	*
Natrix natrix	Appeare on floodplain, or catchment areas	*

Aves

Nycticorax nycticorax	Rare appear. Foodplain of Sajó river its feeding area.	*
Egretta garzetta	Rare appear. Foodplain of Sajó river its feeding area	*
Egretta alba	Rare appear. Foodplain of Sajó river its feeding area	*
Ardea cinerea	Widespread. Foodplain of Sajó river its feeding area	*
Ciconia ciconia	Some couple nests villages	*
Cygnus cygnus	Rare appear, during migration period	*
Anas crecca	Wandering and feeding flocks could recorded	
Anas platyrhynchos	Widespread nesting species along Sajó river	
Milvus migrans	Wanderimg species rare appearing	*
Circus aeruginosus	Often recorded as wandering species	*
Circus cyaneus	Widespread in winter	*
Accipiter gentilis	Probably it nests	*
Accipiter nisus	Probably it nests	*
Buteo buteo	Some couples nest regularly	*
Buteo lagopus	Often appear in winter	*
Aquila pomarina	Rare recorded as wandering species	*
Falco tinunculus	Widespread nesting species	*
Falco columbarius	Regularly recorded in winter	*
Falco subbuteo	Probably it nests	*
Falco cherrug	Rare recorded as wandering species	*
Perdix perdix	Widespread in agricultural land	*
Coturnix coturnix	Nesting species	*
Phasianus colchicus	Widespred nesting species	
Fulica atra	It nest in reeds along Holt Szuha stream	
Grus grus	Great flocks often recorded during migration period	*
Charadrius dubius	Widespread along Sajó river	*
Vanellus vanellus	Probably it nests	*

Aves follow

Rallus aqaticus	It nest in reeds along Holt Szuha stream	*
Porzana porzana	It nest in reeds along Holt Szuha stream	
Gallinula chloropus	It nest in reeds along Holt Szuha stream	*
Tringa hypoleucos	Appear along Sajó river	
Larus ridibundus	Sometimes recorded	*
Columba oenas	Sometimes recorded in migration period	*
Columba palumbus	Widespread nesting species	
Streptopelia decaocto	Widespread nesting species particularly in villages	
Streptopelia turtur	It nests alluvial forests	
Cuculus canorus	Widespread, probably nesting species	*
Tyto alba	Some couples nest in church	*
Athene noctua	Some couples nest in buildings	*
Strix aluco	Rare nesting species	*
Asio otus	Some couples nest in Sajó valley	*
Alcedo atthis	Some couples nest along Sajó river	*
Merops apiaster	Some couples nest along Sajó river	*
Upupa epops	Often recorded, but rare nesting species	*
Jynx torquilla	Nesting species	*
Picus viridis	Often nest in forests	*
Dryocopus martius	Sometimes recorded in Sajó valley	*
Dentrocopos major	Widespread nesting species	*
Dentrocopos medius	Rare nesting species	*
Dentrocopos minor	Rare nesting species	*
Galerida cristata	Often nesting species	*
Lullula arborea	Regularly nest in greater forest	*
Alauda arvensis	Often nest in agricultural areas	*
Riparia riparia	Regularly nesting species in steep banks	*
Hirundo rustica	Often nestingspecies in villages	*
Delichon urbica	Sometimes recorded as wandering species	*
Anthus campestris	Rare recorded	*
Anthus trivialis	Sometimes appear some places	*
Anthus pratensis	Sometimes recorded in pastures	*
Motacilla flava	Regularly appear	*
Motacilla alba	Widespread nesting species	*
Troglodytes troglodytes	Widespread nesting species	*
Erithacus rubecola	Widespread nesting species mainly forests	*
Phoenicurus ochruros	Widespread nesting species	*
Phoenicurus phoenicurus	Widespread nesting species	*
Saxicola terquata	Regularly appear	*
Oenanthe oenanthe	Rare recorded as wandering species	*
Turdus merula	Widespread nesting species	*
Turdus pilaris	Greater flocks are regularly recorded in winter	*
Turdus philomelos	Widespread nesting species	*
Acrocephalus palustris	Rare nesting species	*
Sylvia curruca	Widespread	*
Sylvia communis	Widespread	*

Mammalia

Erinaceus europaeus	Rare appear	
Talpa europea	Widespread	*
Sorex minutus	Widespread	*
Sorex araneus	Often recorded in lerger forest body	*
Crocidura leucodon	Widespread in grasslands, pastures	*
Crocidura suaveolens	Widespread	*
Rhinolopus ferrumeguinum	Often recorded in churches	*
Myotis myotis	Often recorded in churches	*
Lepus europeus	Rare species	
Sciurus vulgaris	Rare species	*
Citellus citellus	Rare species	*
Cricetus cricetus	Widespread	
Ondatra zibethica	Rare recorded along Sajó river	
Clethrionomys glareolus	Widespread in larger forest body	
Mycrotus arvalis	Widespread	
Apodemus sylvaticus	Widespread	
Micromys minutus	Rare species	
Mus musculus	Widespread	
Rattus norvegicus	Widespread	
Vulpes vulpes	Widespread, its holes was recorded on ash-depony too	
Martes foina	Widespread	
Mustella nivalis	Widespread	*
Mustella putorius	Sometimes recorded	
Felis silvestris	Rare species	*
Sus scrofa	Rare species	
Capreolus capreolus	Widespread	

Aves follow

Sylvia atricapilla	Widespread, recorded as nesting species	*
Phylloscopus collybita	Widespread probably nesting species	*
Phyloscopus trochilus	Rare recorded	*
Regulus regulus	Widespread	*
Muscicapa srtiata	Often recorded during migration period	*
Ficedula albicellis	Nesting species in older local oak forests	*
Aegithalos caudatus	Often recorded	*
Parus palustris	Rare recorded in dense alluvial forests	*
Parus caeruleus	Widespread nesting species	*
Parus major	Widespread nesting species	*
Sitta europea	Widespread nesting species	*
Certhia brachydachtyla	Nesting species in smaller forest body	*
Oriolus oriolus	Rare nesting species in remnant alluvial forests	*
Lanius collurio	Widespread nesting species	*
Lanius minor	Rare recorded as wandering species	*
Lanius excubitor	Sometimes recorded as wandering species in winter	*
Garullus glandarius	Often nest in Sajó valley	
Pica pica	Often nest in Sajó valley	
Corvus monedula	Some nesting species recorded	*
Corvus frugilegus	Often nest in Sajó valley	
Corvus corone cornix	Often nest in Sajó valley	*
Corvus corax	Regulerly recorded	*
Sturnus vulgaris	Often nest in Sajó valley	
Passer domesticus	Often nest in Sajó valley	
Passer montanus	Often nests in Sajó valley	
Fringilla coelebs	Widespread in larger forests	*
Fringilla montifringilla	Widespread in winter	*
Serinus serinus	Widespread	*
Carduelis chloris	Widespread nesting species	*
Carduelis carduelis	Widespread nesting species	*
Carduelis spinus	Rare recorded in winter	*
Carduelis cannabina	Wintering flocks often recorded	*
Pyrrhula pyrrhula	Regularly appear mainly in winter season	*
Coccothraustes coccothraustes	Widespread. It nests some place	*
Emberiza citrinella	Widespread nesting species	*

2.2.6 Analysis of Exhaust Gas and Ash from Borsod Power Plant

Table 2.2.6.1 Result of the Boiler Measuring No.2

Date : 29. Oct. 1996

RESULTS OF MEASUREMENTS BY EACH FUEL-GAS-CHANNEL

Measured parameter	*Unit*	*Fuel-gas-channel No.1.*	*Fuel-gas-channel No.2.*
TEMPERATURE	K	452	449
DINAMIC PRESSURE	Pa	123	193
FLOW VELOCITY	m/s	16,5	20,3
VOLUME OF FLOW AT OPERATIONAL CONDITION	m^3/h	131366	161783
VOLUME OF FLOW AT NORMAL CONDITION	m^3/h	77180	95687
VOLUME OF FLOW AT DRY GAS	m^3/h	70100	86910
DUST CONCENTRATION	mg/m^3	50,4	37,4

AVERAGE VALUES FOR THE BOILER

Measured parameter	*Unit*	*Measured value*
VOLUME OF FLOW AT OPERATIONAL	m^3/h	293149
VOLUME OF FLOW AT PHYSICAL NORMAL CONDITION	m^3/h	172867
VOLUME OF FLOW CALCULATED FOR DRY GAS	m^3/h	157010
DUST CONCENTRATION	mg/m^3	43,2
DUST EMISSION	kg/h	6,78

MEASURED DATA OF COMMON FUEL-GAS-CHANNEL

COMPONENTS	*CONCENTRATION [mg/m^3]*	*VOLUME OF FLOW [kg/h]*
SULPHUR-DIOXIDE	3923	616,5
CARBON-MONOXIDE	22,6	3,55
NITROGEN-OXIDES	370	58,1
CARBON-DIOXIDE	9,85 %	-
OXYGEN	9,5 %	-

MEASURED DATA OF OTHER COMPONENTS

MEASURED COMPONENTS	CONCENTRATION (mg/m^3)			EMISSION (kg/h)
	IN STEAM	IN DUST	TOTAL	
MERCURY	0,0021	0,0003	0,0024	$0,376x10^{-3}$
ARSENIUM	<0,0004	0,1477	0,148	$23,2x10^{-3}$
CHLORIDE	19,76	-	-	3,10
FLUORIDE	19,9	-	-	3,12

Table 2.2.6.2 Result of the Boiler Measuring No.3

Date : 30. Oct. 1996

RESULTS OF MEASUREMENTS BY EACH FUEL-GAS-CHANNEL

Measured parameter	*Unit*	*Fuel-gas-channel No.1.*	*Fuel-gas-channel No.2.*
TEMPERATURE	K	459	458
DINAMIC PRESSURE	Pa	80,4	116,4
FLOW VELOCITY	m/s	14,8	17,81
VOLUME OF FLOW AT OPERATIONAL CONDITION	m^3/h	155471	187090
VOLUME OF FLOW AT NORMAL CONDITION	m^3/h	89915	108138
VOLUME OF FLOW AT DRY GAS	m^3/h	80024	96243
DUST CONCENTRATION	mg/m^3	181	193

AVERAGE VALUES FOR THE BOILER

Measured parameter	*Unit*	*Measured value*
VOLUME OF FLOW AT OPERATIONAL	m^3/h	342561
VOLUME OF FLOW AT PHYSICAL NORMAL CONDITION	m^3/h	198053
VOLUME OF FLOW CALCULATED FOR DRY GAS	m^3/h	176267
DUST CONCENTRATION	mg/m^3	187,5
DUST EMISSION	kg/h	33,05

MEASURED DATA OF COMMON FUEL-GAS-CHANNEL

COMPONENTS	*CONCENTRATION [mg/m^3]*	*VOLUME OF FLOW [kg/h]*
SULPHUR-DIOXIDE	5454	961,4
CARBON-MONOXIDE	23,7	4,18
NITROGÉN-OXIDES	369,3	65,1
CARBON-DIOXIDE	9,05 %	
OXYGEN	10,5 %	

MEASURED DATA OF OTHER COMPONENTS

MEASURED COMPONENTS	CONCENTRATION (mg/m^3)			EMISSION (kg/h)
	IN STEAM	IN DUST	TOTAL	
MERCURY	0,0020	0,0004	0,0024	$0,423x10^{-3}$
ARSENIUM	0,0003	0,6569	0,6572	0,116
CHLORID	21,92	-	-	3,86
FLUORIDE	24,65	-	-	4,34

Table 2.2.6.3 Result of the Boiler Measuring No.4

Date : 31. Oct. 1996

RESULTS OF MEASUREMENTS BY EACH FUEL-GAS-CHANNEL

Measured parameter	*Unit*	*Fuel-gas-channel No.1.*	*Fuel-gas-channel No.2.*
TEMPERATURE	K	444	442
DINAMIC PRESSURE	Pa	101	100
FLOW VELOCITY	m/s	16,2	15,8
VOLUME OF FLOW AT OPERATIONAL CONDITION	m^3/h	169933	165800
VOLUME OF FLOW AT NORMAL CONDITION	m^3/h	101878	99836
VOLUME OF FLOW AT DRY GAS	m^3/h	89652	87856
DUST CONCENTRATION	mg/m^3	107	102

AVERAGE VALUES FOR THE BOILER

Measured parameter	*Unit*	*Measured value*
VOLUME OF FLOW AT OPERATIONAL	m^3/h	335733
VOLUME OF FLOW AT PHYSICAL NORMAL CONDITION	m^3/h	201714
VOLUME OF FLOW CALCULATED FOR DRY GAS	m^3/h	177508
DUST CONCENTRATION	mg/m^3	104,5
DUST EMISSION	kg/h	18,55

MEASURED DATA OF COMMON FUEL-GAS-CHANNEL

COMPONENTS	*CONCENTRATION [mg/m³]*	*VOLUME OF FLOW [kg/h]*
SULPHUR-DIOXIDE	5152	914,5
CARBON-MONOXIDE	24,5	4,35
NITROGÉN-OXIDES	334	59,3
CARBON-DIOXIDE	8,2 %	-
OXYGEN	11,6 %	-

MEASURED DATA OF OTHER COMPONENTS

MEASURED COMPONENTS	CONCENTRATION (mg/m^3)			EMISSION (kg/h)
	IN STEAM	IN DUST	TOTAL	
MERCURY	0,0015	0,0003	0,0018	$0{,}320 \times 10^{-3}$
ARSENIUM	<0,0003	0,5040	0,5043	0,0895
CHLORIDE	26,72	-	-	4,74
FLUORID	18,1	-	-	3,21

Table 2.2.6.4 Result of the Boiler Measuring No.2

Date : 20. Jan. 1997

RESULTS OF MEASUREMENTS BY EACH FUEL-GAS-CHANNEL

Measured parameter	*Unit*	*Fuel-gas-channel No.1.*	*Fuel-gas-channel No.2.*
TEMPERATURE	K	440	442
DINAMIC PRESSURE	Pa	112,7	191,8
FLOW VELOCITY	m/s	14,67	19,73
VOLUME OF FLOW AT OPERATIONAL CONDITION	m^3/h	117152	126542
VOLUME OF FLOW AT NORMAL CONDITION	m^3/h	70324	75617
VOLUME OF FLOW AT DRY GAS	m^3/h	63874	68681
DUST CONCENTRATION	mg/m^3	180,8	193,6

AVERAGE VALUES FOR THE BOILER

Measured parameter	*Unit*	*Measured value*
VOLUME OF FLOW AT OPERATIONAL	m^3/h	243694
VOLUME OF FLOW AT PHYSICAL NORMAL CONDITION	m^3/h	145941
VOLUME OF FLOW CALCULATED FOR DRY GAS	m^3/h	132555
DUST CONCENTRATION	mg/m^3	187,1
DUST EMISSION	kg/h	24,8

MEASURED DATA OF COMMON FUEL-GAS-CHANNEL

COMPONENTS	CONCENTRATION(mg/m^3)	VOLUME OF FLOW(kg/h)
SULPHUR-DIOXIDE	7049	934,4
CARBON-MONOXIDE	20,25	2,68
NITROGEN-OXIDES	412,2	54,6
CARBON-DIOXIDE	10,65 %	-
OXYGEN	9,02 %	-

MEASURED DATA OF OTHER COMPONENTS

MEASURED COMPONENTS	CONCENTRATION (mg/m^3)			EMISSION (kg/h)
	IN STEAM	IN DUST	TOTAL	
MERCURY	0,0032	0,00046	0,00366	$0,485x10^{-3}$
ARSENIUM	0,016	0,3117	0,3277	$43,4x10^{-3}$
CHLORIDE	6,96	-	-	0,923
FLUORIDE	14,03	-	-	1,86

Table 2.2.6.5 Result of the Boiler Measuring No.3

Date : 21. Jan. 1997

RESULTS OF MEASUREMENTS BY EACH FUEL-GAS-CHANNEL

Measured parameter	*Unit*	*Fuel-gas-channel No.1.*	*Fuel-gas-channel No.2.*
TEMPERATURE	K	451	452
DINAMIC PRESSURE	Pa	78,0	81,6
FLOW VELOCITY	m/s	12,97	13,17
VOLUME OF FLOW AT OPERATIONAL CONDITION	m^3/h	136320	138434
VOLUME OF FLOW AT NORMAL CONDITION	m^3/h	80910	81942
VOLUME OF FLOW AT DRY GAS	m^3/h	73488	74426
DUST CONCENTRATION	mg/m^3	344,2	309,0

AVERAGE VALUES FOR THE BOILER

Measured parameter	*Unit*	*Measured value*
VOLUME OF FLOW AT OPERATIONAL	m^3/h	274752
VOLUME OF FLOW AT PHYSICAL NORMAL CONDITION	m^3/h	162852
VOLUME OF FLOW CALCULATED FOR DRY GAS	m^3/h	147914
DUST CONCENTRATION	mg/m^3	326,5
DUST EMISSION	kg/h	48,29

MEASURED DATA OF COMMON FUEL-GAS-CHANNEL

COMPONENTS	CONCENTRATION (mg/m^3)	VOLUME OF FLOW (kg/h)
SULPHUR-DIOXIDE	5235	774,3
CARBON-MONOXIDE	28,5	4,22
NITROGÉN-OXIDES	400,7	59,3
CARBON-DIOXIDE	8,65 %	-
OXYGEN	10,7 %	-

MEASURED DATA OF OTHER COMPONENTS

MEASURED COMPONENTS	CONCENTRATION (mg/m^3)			EMISSION (kg/h)
	IN STEAM	IN DUST	TOTAL	
MERCURY	0,0021	0,000032	0,002132	$0,315x10^{-3}$
ARSENIUM	0,0085	0,4177	0,4262	$63,0x10^{-3}$
CHLORID	25,2	-	-	3,73
FLUORIDE	12,43	-	-	1,84

Table 2.2.6.6 (1) Result of the Boiler Measuring No.4

Date : 22. Jan. 1997

RESULTS OF MEASUREMENTS BY EACH FUEL-GAS-CHANNEL

Measured parameter	*Unit*	*Fuel-gas-channel No.1.*	*Fuel-gas-channel No.2.*
TEMPERATURE	K	441	439
DINAMIC PRESSURE	Pa	92,2	99,32
FLOW VELOCITY	m/s	14,14	14,81
VOLUME OF FLOW AT OPERATIONAL CONDITION	m^3/h	148741	155747
VOLUME OF FLOW AT NORMAL CONDITION	m^3/h	90936	95220
VOLUME OF FLOW AT DRY GAS	m^3/h	82595	86485
DUST CONCENTRATION	mg/m^3	152,3	146,9

AVERAGE VALUES FOR THE BOILER

Measured parameter	*Unit*	*Measured value*
VOLUME OF FLOW AT OPERATIONAL	m^3/h	304488
VOLUME OF FLOW AT PHYSICAL NORMAL CONDITION	m^3/h	186156
VOLUME OF FLOW CALCULATED FOR DRY GAS	m^3/h	169080
DUST CONCENTRATION	mg/m^3	149,5
DUST EMISSION	kg/h	25,28

MEASURED DATA OF COMMON FUEL-GAS-CHANNEL

COMPONENTS	CONCENTRATION (mg/m^3)	VOLUME OF FLOW (kg/h)
SULPHUR-DIOXIDE	4411	745,8
CARBON-MONOXIDE	44,5	7,52
NITROGÉN-OXIDES	336,6	56,9
CARBON-DIOXIDE	8,05 %	-
OXYGEN	11,5 %	-

MEASURED DATA OF OTHER COMPONENTS

MEASURED COMPONENTS	CONCENTRATION (mg/m^3)			EMISSION (kg/h)
	IN STEAM	IN DUST	TOTAL	
MERCURY	0,0018	$7,5x10^{-5}$	0,001875	$0,32x10^{-3}$
ARSENIUM	0,0055	0,4713	0,4768	$80,6x10^{-3}$
CHLORIDE	11,57	-	-	1,95
FLUORID	11,19	-	-	1,89

Table 2.2.6.6 (2) Result of the Boiler Measuring No.4

Date : 22. Jan. 1997

SAMPLE IDENTIFICATION	METHOD OF DISSOLUTION	NUMBER OF BOILERS		
		Hg [mg/l]		
		2	3	4
SLAG	WATER	0,0006	0,0005	0,0007
	ACIDIC	0,002	0,0034	0,0031
ECO FLY ASH	WATER	0,0009	0,001	0,0007
	ACIDIC	0,0013	0,0022	0,0024
EF FLY ASH	WATER	0,0009	0,0009	0,0007
	ACIDIC	0,0027	0,0022	0,0027
		As [mg/l]		
SLAG	WATER	0,018	0,014	0,024
	ACIDIC	5,65	5,8	6,9
ECO FLY ASH	WATER	0,052	0,046	0,067
	ACIDIC	6,9	8,55	9,9
EF FLY ASH	WATER	0,309	0,141	0,165
	ACIDIC	39,1	21,5	34,0

COMMENTS:

- AT EVERY CASE 10 g OF DRY SAMPLE WAS SOAKED IN 90 ml OF SOLVENT FOR 24 HOURS
- THE ACID WAS 2M NITRIC ACID
- IN CASES OF SOAKING BY WATER THE pH OF THE SAMPLE BECAME BASIC BECAUSE OF THE LIME CONTENT.

3. Geotechnical Study

3. Geotechnical Study

3.1 Outline

The proposed new unit is to be located in the south-eastern area of the existing unit. The stack of the new unit is planned in the north-eastern edge of the site near the Sajo River.

The proposed site for the new unit is a backfilled and leveled land, and the ground surface is relatively flat. The base layer of the site is firm clay located -5.1 ~ -8.00m from the G.L. under the gravel layer of the Sajo River bank terrace. It is advisable that the foundation of the new stack be constructed on this base layer. As organic clay layers are not likely to exist near the new main buildings, it is possible to make shallow foundations for the new buildings. However, boring tests should be conducted at locations of the important structures for foundation designs.

(1) Soil Surveys in the Past

For the area where the new unit is planned, geotechnical data are available from the soil surveys conducted in the past for 3 times. The locations of these surveys are shown in Figure 3.1.

(2) Soil Profile

The soil profiles that were drawn using the results of the past soil surveys are shown in Figures 3.2 through 3.4. The soil conditions of the planned site can be summarized as follows:

- A firm clay layer exists near G.L. -8.00 m. This layer can be considered as the base layer of the area.
- The sandy gravel layer of about 3 m thickness which forms the bank terrace of the Sajo River exists above the base layer.
- The surface backfill layer is 1.0 m - 1.5 m thick, and the sand-and-gravel containing clay layer is 3.0 m thick below the surface layer.
- Near the Sajo River, the organic clay layer is observed below the backfilled surface layer.

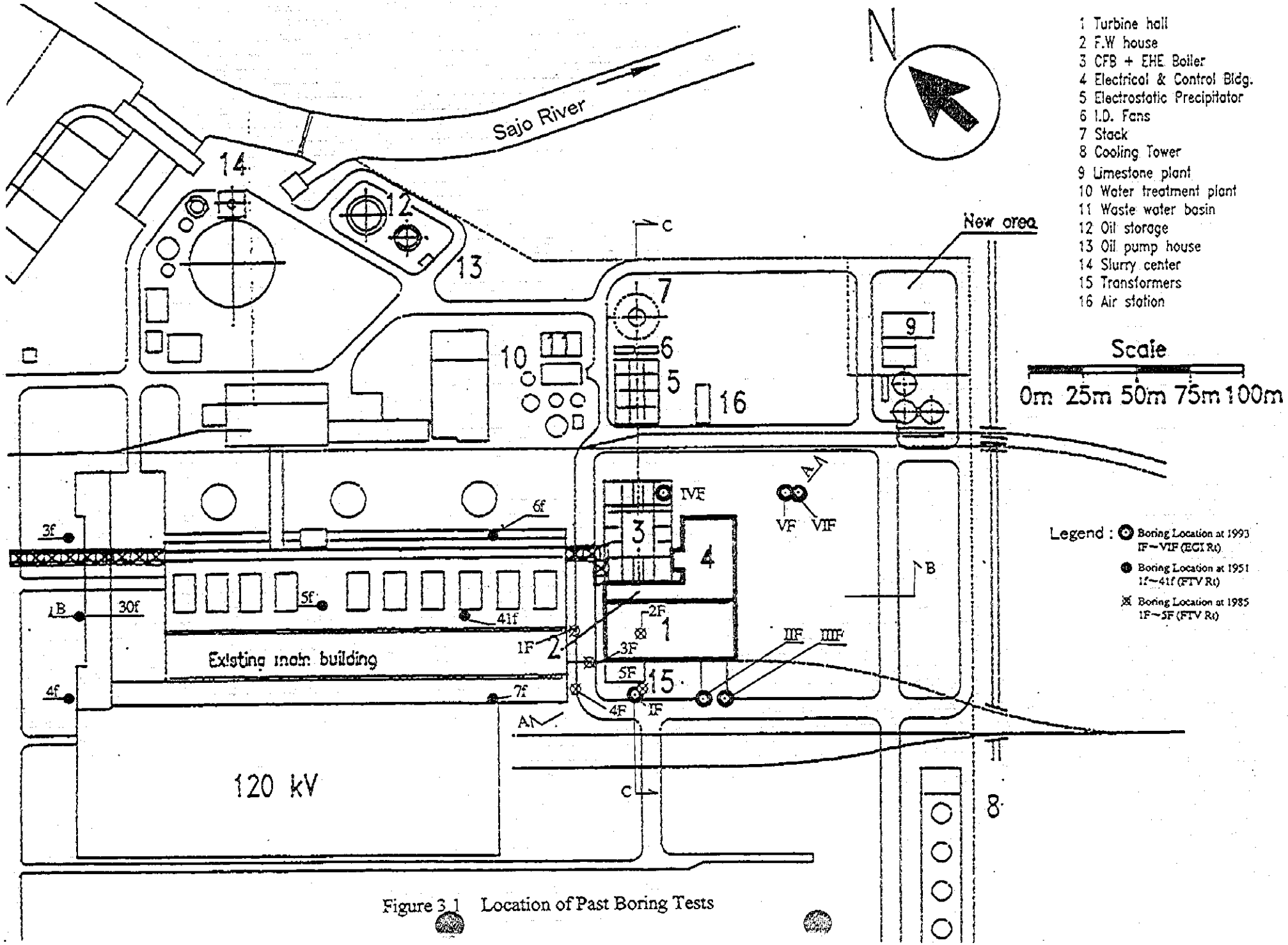


Figure 3.1 Location of Past Boring Tests

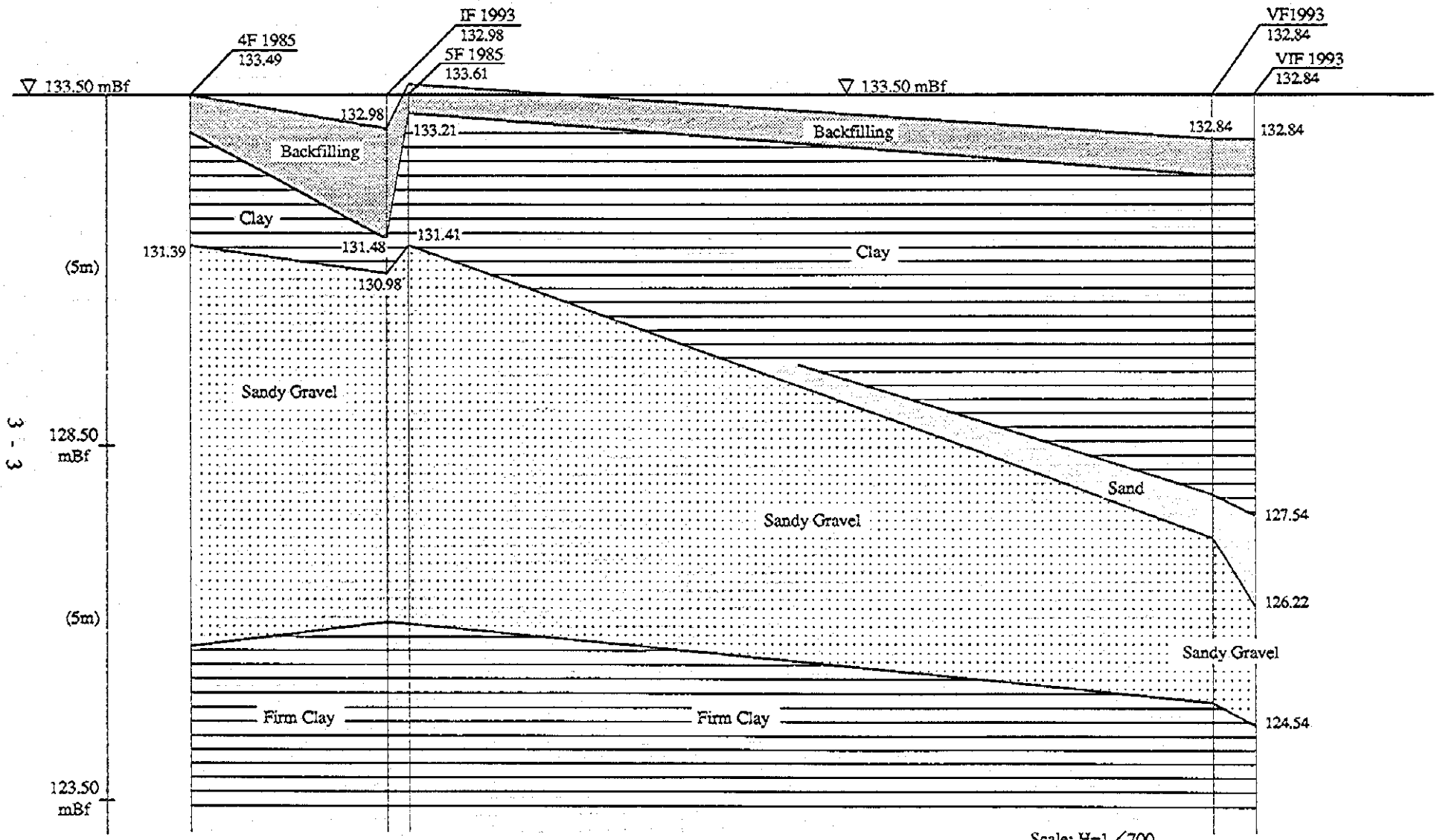
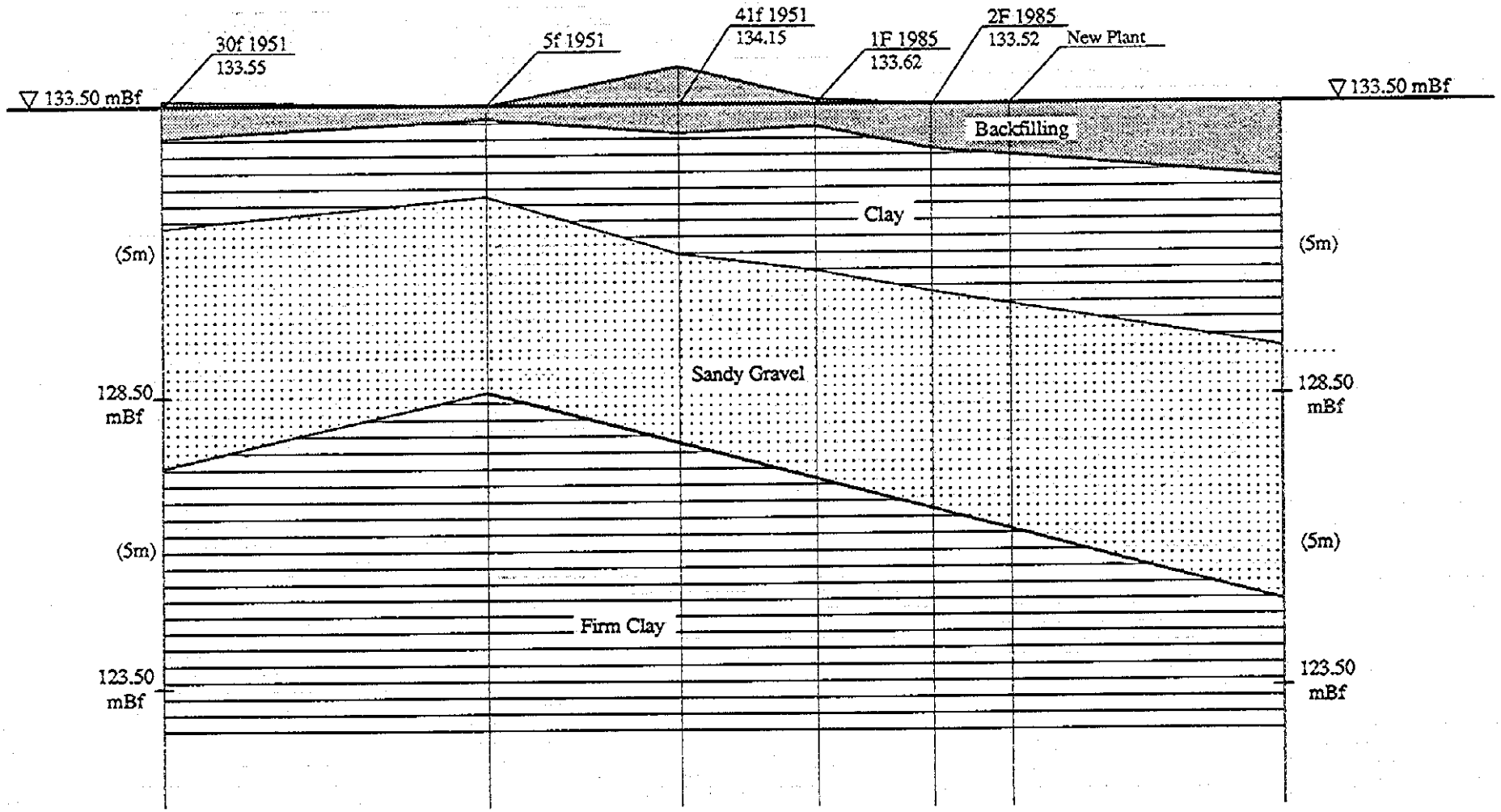


Figure 3.2 Soil Profile (A - A Line)



Scale: H=1/2000
V=1/100

Figure 3.3 Soil Profile (B - B Line)

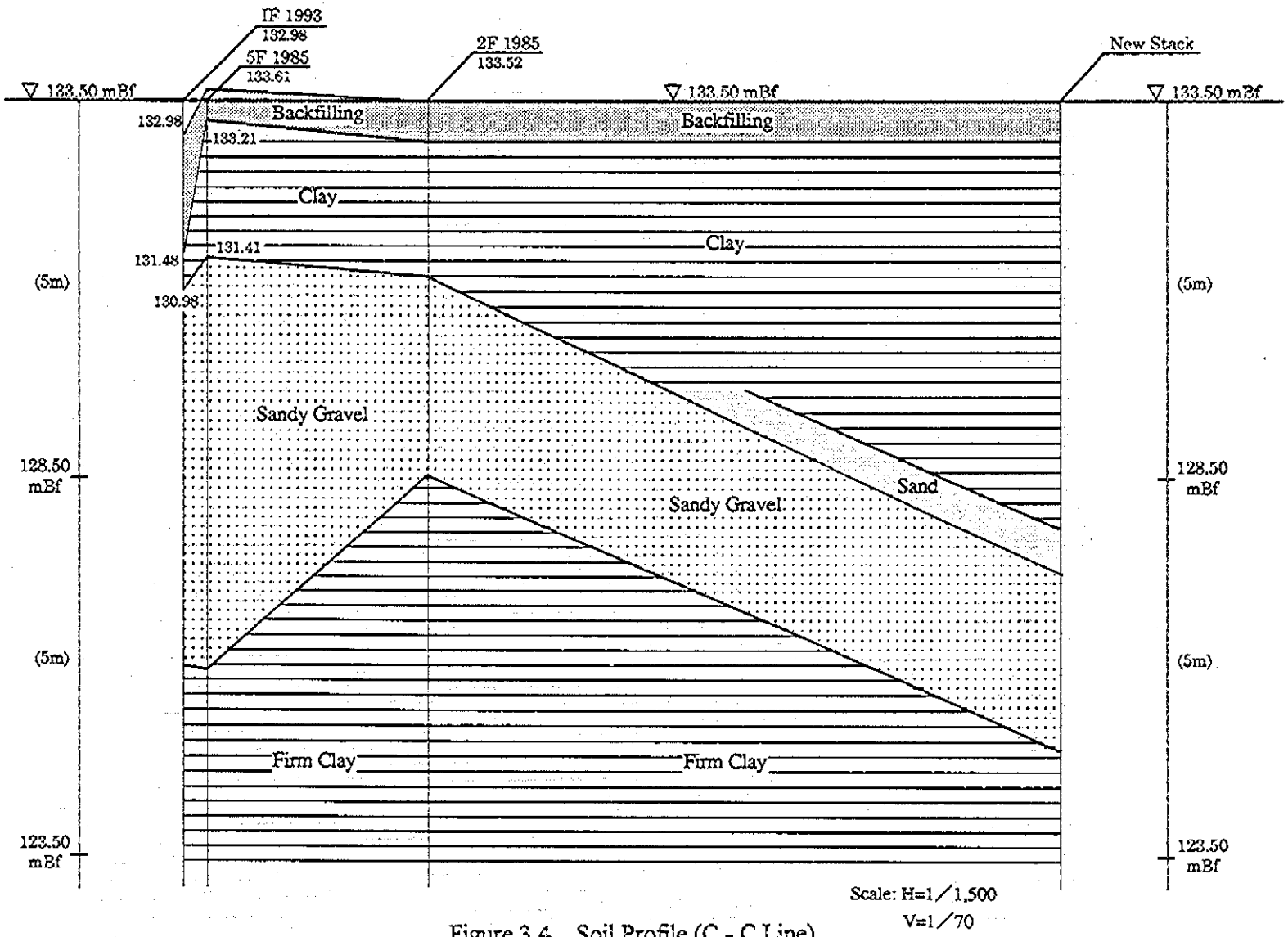


Figure 3.4 Soil Profile (C - C Line)