ZAŁĄCZNIK 4

Oddziaływanie na powietrze atmosferyczne

PRZYKŁAD DANYCH WEJŚCIOWYCH

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Modelowanie poziomow substancji w powietrzu zgodnie z metodyka referencyjna
   wg Rozporzadzenia Ministra Srodowiska z dn. 5.12.02, Dz.U. 01/03, poz. 12

      @@@@@@@@@@   WERSJA 6.01   @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
             @@                         @@
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         @@    @@  @@  @@@@@@  @@  @@  @@  Marcin Jozwiak    22 847 73 00
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              R a p o r t  /  d i a g n o s t y k a
            w p r o w a d z o n y c h   d a n y c h


  nazwa uzytkownika :  TRANSPROJEKT - WARSZAWA
  numer licencji    : MJ/14/03

  data obliczen : 2006-04-26
 ==============================================================================
  IDENTYFIKATOR :
   c:\zanat6\pd399A\15marsa2

 ==============================================================================
  TYTUL  :
 Marsa-Zolnierska
 P2-Artur


 ==============================================================================
  OS LICZBOWA :
   - rzedna punktow   zk [m] =        .0
   - wsp. poczatku   xk0 [m] =    8381.0
                     yk0 [m] =     -15.0
   - kierunek osi    alf [ř] =   301
   - przyrost        dk  [m] =      10.0
   - liczba punktow  lk      =    31

 ==============================================================================
  DANE PODSTAWOWE :
   - dokladnosc obliczen                EPS =  .010000
   - liczba zanieczyszczen             LZAN =   3
   - liczba zanieczyszczen pylowych    LZAP =   0
   - liczba sezonow                    LSEZ =   1
   - liczba podokresow emisji           LOE =   2
   - maksymalny numer emitora          MNEM =  97
   - liczba emitorow punktowych        LKOM =   0
   - liczba emitorow powierzchniowych  LPOW =   0
   - liczba emitorow liniowych         LLIN =  97

 ==============================================================================
  DANE METEOROLOGICZNE W SEZONACH :
 sezon|  nazwa    |wgledny udzial|temperatura| wysokosc |   nazwa
  nr  |  sezonu   |    w roku    | otoczenia |anemometru| zbioru rozy
 ------------------------------------------------------------------------------
   1  | rok       |    1.000     |  281.0 [K]|  14.0 [m]| warszawa.rok
```

```
DANE ZANIECZYSZCZEN :
  numer | typ | czestosc |  nazwa zanieczyszczenia
 ----------------------------------------
    1   | gaz |     .20  | dwutlenek azotu
    2   | gaz |     .20  | PM10
    3   | gaz |     .20  | benzen

================================================================================
 DOPUSZCZALNE WARTOSCI ORAZ TLO STEZEN ZANIECZYSZCZEN :
 --------------------------------------------------------------------------------
 zanieczyszczenie nr 1  [ug/m3] - dwutlenek azotu
  d1 =   200.00| da =   40.000| tlo =   25.000
 --------------------------------------------------------------------------------
 zanieczyszczenie nr 2  [ug/m3] - PM10
  d1 =   280.00| da =   40.000| tlo =   36.000
 --------------------------------------------------------------------------------
 zanieczyszczenie nr 3  [ug/m3] - benzen
  d1 =   30.000| da =   5.0000| tlo =   2.3000

================================================================================
DANE PODOKRESOW EMISJI :
     numer    |    numer   | udzial podokresu
   podokresu  |    sezonu  |     w sezonie
  ------------------------------------------------------
        1     |      1     |       .6667
        2     |      1     |       .3333

================================================================================
 SZORSTKOSC AERODYNAMICZNA :
    z0 [m] =  2.000

================================================================================
  DANE EMITOROW :
 ================================================================================
 EMITOR NR   1 - LINIOWY "1                                                    "
 ------------------------------------------------------------------------
           wspolrzedne  emitora          |wysokosc| liczba okresow
  xl1[m]    yl1[m]  |  xl2[m]    yl2[m]  |  hl[m] |     emisji
   8139.0    -125.0 |   8165.0     -82.0 |     5.0|        2

 d a n e   w   o k r e s a c h   e m i s j i :
 --------------------------------------------------------------------------------
 NUMER OKRESU  1 | sezon  1
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     n u m e r y   p o d o k r e s o w   e m i s j i
       1
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     e m i s j a   z a n i e c z y s z c z e n   g a z o w y c h
 nr zaniecz. |      1  |      2  |      3  |
emisja [kg/h]|  .083000| .0020000| .0050000
 --------------------------------------------------------------------------------
 NUMER OKRESU  2 | sezon  1
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     n u m e r y   p o d o k r e s o w   e m i s j i
▮
       2
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     e m i s j a   z a n i e c z y s z c z e n   g a z o w y c h
 nr zaniecz. |      1  |      2  |      3  |
emisja [kg/h]|  .025000|.00060000|.00100000
 --------------------------------------------------------------------------------
```

■ WYNIKI OBLICZEŃ W PRZEKROJACH OBLICZENIOWYCH

• Przekrój 1

Wyniki obliczen w wezlach osi liczbowej
ZANIECZYSZCZENIE NR 1 - dwutlenek azotu
dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 25.00 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8277	-186	0	26.170v	.000v	95.25	44.23v
2	8268	-180	0	26.245	.000v	98.43	46.38
3	8259	-175	0	26.331	.000v	101.33	46.09
4	8251	-170	0	26.427	.000v	104.41	49.29
5	8242	-165	0	26.543	.000v	109.91	50.46
6	8234	-160	0	26.679	.000v	113.85	52.81
7	8225	-155	0	26.844	.000v	120.26	55.72
8	8216	-149	0	27.058	.000v	125.36	59.82
9	8208	-144	0	27.325	.000v	135.80	62.89
10	8199	-139	0	27.668	.000v	147.74	68.47
11	8191	-134	0	28.169	.000v	162.80	73.79
12	8182	-129	0	28.873	.000v	180.00	80.71
13	8174	-124	0	29.927	.015	208.25	88.48
14	8165	-119	0	31.482	.047	248.36	101.96
15	8156	-113	0	30.940	.081	321.59	129.43
16	8148	-108	0	29.007	.110^	436.17^	145.39^
17	8139	-103	0	32.300^	.069	318.44	125.90
18	8131	-98	0	31.953	.042	242.50	105.00
19	8122	-93	0	30.446	.000v	197.50	90.05
20	8114	-88	0	29.377	.000v	171.05	82.44
21	8105	-82	0	28.662	.000v	147.75	74.44
22	8096	-77	0	28.157	.000v	132.42	69.95
23	8088	-72	0	27.783	.000v	120.80	64.66
24	8079	-67	0	27.492	.000v	109.25	60.73
25	8071	-62	0	27.264	.000v	101.84	57.93
26	8062	-57	0	27.075	.000v	93.25	54.45
27	8054	-52	0	26.921	.000v	86.86	51.81
28	8045	-46	0	26.788	.000v	82.14	50.66
29	8036	-41	0	26.676	.000v	76.51	47.52
30	8028	-36	0	26.577	.000v	71.78	46.16
31	8019	-31	0	26.490	.000v	67.32v	44.68
	wartosci srednie			28.053	.012	152.55	70.40

ZANIECZYSZCZENIE NR 2 - PM10
dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 36.00 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8277	-186	0	36.030v	.000v	2.18	1.06v
2	8268	-180	0	36.032	.000v	2.26	1.10
3	8259	-175	0	36.034	.000v	2.32	1.11
4	8251	-170	0	36.036	.000v	2.37	1.17
5	8242	-165	0	36.039	.000v	2.49	1.21
6	8234	-160	0	36.042	.000v	2.57	1.27
7	8225	-155	0	36.046	.000v	2.70	1.32
8	8216	-149	0	36.052	.000v	2.84	1.42
9	8208	-144	0	36.058	.000v	3.08	1.51
10	8199	-139	0	36.067	.000v	3.35	1.65
11	8191	-134	0	36.079	.000v	3.70	1.77
12	8182	-129	0	36.096	.000v	4.13	1.94
13	8174	-124	0	36.122	.000v	4.81	2.19
14	8165	-119	0	36.159	.000v	5.81	2.55
15	8156	-113	0	36.146	.000v	7.65	3.15
16	8148	-108	0	36.100	.000v	10.70^	3.75^
17	8139	-103	0	36.179^	.000v	7.94	3.09
18	8131	-98	0	36.171	.000v	6.11	2.59
19	8122	-93	0	36.134	.000v	5.01	2.22
20	8114	-88	0	36.109	.000v	4.39	2.02
21	8105	-82	0	36.091	.000v	3.80	1.83

22	8096	-77	0	36.079	.000v	3.44	1.71
23	8088	-72	0	36.070	.000v	3.16	1.57
24	8079	-67	0	36.063	.000v	2.88	1.48
25	8071	-62	0	36.057	.000v	2.70	1.40
26	8062	-57	0	36.053	.000v	2.49	1.34
27	8054	-52	0	36.049	.000v	2.33	1.27
28	8045	-46	0	36.045	.000v	2.21	1.22
29	8036	-41	0	36.043	.000v	2.07	1.16
30	8028	-36	0	36.040	.000v	1.96	1.11
31	8019	-31	0	36.038	.000v	1.84v	1.08
wartosci srednie				36.076	.000	3.72	1.72

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]

tlo stezenia R = 2.300 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8277	-186	0	2.3676v	.000v	5.505	2.630v
2	8268	-180	0	2.3719	.000v	5.702	2.794
3	8259	-175	0	2.3768	.000v	5.868	2.777
4	8251	-170	0	2.3824	.000v	6.044	2.940
5	8242	-165	0	2.3891	.000v	6.365	3.014
6	8234	-160	0	2.3969	.000v	6.597	3.165
7	8225	-155	0	2.4064	.000v	6.973	3.356
8	8216	-149	0	2.4188	.000v	7.277	3.548
9	8208	-144	0	2.4341	.000v	7.907	3.788
10	8199	-139	0	2.4538	.000v	8.619	4.117
11	8191	-134	0	2.4827	.000v	9.518	4.445
12	8182	-129	0	2.5233	.000v	10.550	4.862
13	8174	-124	0	2.5839	.000v	12.263	5.401
14	8165	-119	0	2.6735	.000v	14.711	6.149
15	8156	-113	0	2.6423	.000v	19.167	7.769
16	8148	-108	0	2.5311	.000v	26.352^	8.784^
17	8139	-103	0	2.7206^	.000v	19.344	7.597
18	8131	-98	0	2.7007	.000v	14.774	6.278
19	8122	-93	0	2.6138	.000v	12.053	5.425
20	8114	-88	0	2.5523	.000v	10.476	5.038
21	8105	-82	0	2.5112	.000v	9.057	4.485
22	8096	-77	0	2.4821	.000v	8.132	4.214
23	8088	-72	0	2.4605	.000v	7.439	3.913
24	8079	-67	0	2.4437	.000v	6.728	3.658
25	8071	-62	0	2.4306	.000v	6.297	3.490
26	8062	-57	0	2.4198	.000v	5.763	3.280
27	8054	-52	0	2.4109	.000v	5.391	3.121
28	8045	-46	0	2.4033	.000v	5.093	3.052
29	8036	-41	0	2.3968	.000v	4.760	2.862
30	8028	-36	0	2.3911	.000v	4.462	2.781
31	8019	-31	0	2.3861	.000v	4.202v	2.692
wartosci srednie				2.4761	.000	9.142	4.240

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna

- **Przekrój 2**

Wyniki obliczen w wezlach osi liczbowej

ZANIECZYSZCZENIE NR 1 - dwutlenek azotu

dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]

tlo stezenia R = 25.00 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8381	-15	0	27.224v	.000v	100.95	45.10v
2	8372	-9	0	27.379	.000v	103.83	47.34
3	8363	-4	0	27.556	.000v	105.85	49.77
4	8355	0	0	27.753	.000v	108.73	52.68
5	8346	5	0	27.984	.000v	111.52	54.54
6	8338	10	0	28.251	.000v	114.07	57.34
7	8329	15	0	28.563	.000v	120.10	62.54
8	8320	21	0	28.946	.000v	125.86	66.97
9	8312	26	0	29.414	.000v	131.85	73.05
10	8303	31	0	29.986	.000v	140.38	80.70

11	8295	36	0	30.744	.000v	150.24	90.62
12	8286	41	0	31.753	.000v	165.76	103.27
13	8278	46	0	33.127	.000v	185.99	121.00
14	8269	51	0	34.971	.036	218.13	149.75
15	8260	57	0	34.580	.199	282.29	199.48
16	8252	62	0	32.794	.302^*	407.38^	239.67^*
17	8243	67	0	36.218^	.203 *	312.06	204.16 *
18	8235	72	0	35.695	.046	234.90	157.05
19	8226	77	0	33.842	.000v	190.21	126.10
20	8218	82	0	32.420	.000v	155.75	107.59
21	8209	88	0	31.372	.000v	132.53	93.66
22	8200	93	0	30.577	.000v	115.66	83.14
23	8192	98	0	29.949	.000v	102.06	76.27
24	8183	103	0	29.447	.000v	91.08	69.38
25	8175	108	0	29.033	.000v	83.47	63.68
26	8166	113	0	28.685	.000v	74.89	59.36
27	8158	118	0	28.387	.000v	69.27	56.40
28	8149	124	0	28.130	.000v	64.51	53.85
29	8140	129	0	27.908	.000v	60.85	50.37
30	8132	134	0	27.713	.000v	56.64	48.47
31	8123	139	0	27.538	.000v	53.09v	46.79
	wartosci srednie			30.256	.025	140.96	90.00

ZANIECZYSZCZENIE NR 2 - PM10

dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]

tlo stezenia R = 36.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8381	-15	0	36.058v	.000v	2.41	1.10v
2	8372	-9	0	36.062	.000v	2.48	1.15
3	8363	-4	0	36.067	.000v	2.53	1.20
4	8355	0	0	36.072	.000v	2.59	1.27
5	8346	5	0	36.078	.000v	2.65	1.32
6	8338	10	0	36.085	.000v	2.73	1.39
7	8329	15	0	36.093	.000v	2.85	1.51
8	8320	21	0	36.103	.000v	2.96	1.61
9	8312	26	0	36.115	.000v	3.08	1.76
10	8303	31	0	36.130	.000v	3.26	1.94
11	8295	36	0	36.150	.000v	3.46	2.19
12	8286	41	0	36.177	.000v	3.81	2.49
13	8278	46	0	36.213	.000v	4.29	2.93
14	8269	51	0	36.261	.000v	5.10	3.61
15	8260	57	0	36.251	.000v	6.87	4.83
16	8252	62	0	36.204	.000v	10.30^	5.78^
17	8243	67	0	36.293^	.000v	8.02	4.93
18	8235	72	0	36.280	.000v	6.12	3.78
19	8226	77	0	36.231	.000v	5.04	3.04
20	8218	82	0	36.194	.000v	4.18	2.61
21	8209	88	0	36.167	.000v	3.60	2.26
22	8200	93	0	36.146	.000v	3.18	2.00
23	8192	98	0	36.129	.000v	2.85	1.84
24	8183	103	0	36.116	.000v	2.56	1.67
25	8175	108	0	36.105	.000v	2.38	1.53
26	8166	113	0	36.096	.000v	2.17	1.43
27	8158	118	0	36.089	.000v	2.01	1.36
28	8149	124	0	36.082	.000v	1.90	1.30
29	8140	129	0	36.076	.000v	1.80	1.22
30	8132	134	0	36.071	.000v	1.71	1.17
31	8123	139	0	36.066	.000v	1.59v	1.14
	wartosci srednie			36.137	.000	3.56	2.17

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]

tlo stezenia R = 2.300 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8381	-15	0	2.4288v	.000v	5.877	2.730v
2	8372	-9	0	2.4377	.000v	6.058	2.865
3	8363	-4	0	2.4479	.000v	6.180	2.998
4	8355	0	0	2.4593	.000v	6.351	3.173

5	8346	5	0	2.4725	.000v	6.516	3.272
6	8338	10	0	2.4879	.000v	6.680	3.473
7	8329	15	0	2.5059	.000v	7.027	3.767
8	8320	21	0	2.5280	.000v	7.347	4.035
9	8312	26	0	2.5549	.000v	7.681	4.400
10	8303	31	0	2.5879	.000v	8.177	4.850
11	8295	36	0	2.6315	.000v	8.775	5.459
12	8286	41	0	2.6896	.000v	9.680	6.221
13	8278	46	0	2.7690	.000v	10.874	7.335
14	8269	51	0	2.8749	.000v	12.835	9.021
15	8260	57	0	2.8524	.000v	16.871	11.870
16	8252	62	0	2.7496	.000v	24.856^	14.438^
17	8243	67	0	2.9468^	.000v	19.120	12.321
18	8235	72	0	2.9167	.000v	14.456	9.461
19	8226	77	0	2.8100	.000v	11.763	7.597
20	8218	82	0	2.7281	.000v	9.671	6.481
21	8209	88	0	2.6678	.000v	8.263	5.642
22	8200	93	0	2.6220	.000v	7.230	5.009
23	8192	98	0	2.5859	.000v	6.392	4.595
24	8183	103	0	2.5570	.000v	5.710	4.180
25	8175	108	0	2.5333	.000v	5.259	3.836
26	8166	113	0	2.5131	.000v	4.743	3.576
27	8158	118	0	2.4959	.000v	4.373	3.398
28	8149	124	0	2.4812	.000v	4.096	3.258
29	8140	129	0	2.4684	.000v	3.867	3.035
30	8132	134	0	2.4571	.000v	3.625	2.920
31	8123	139	0	2.4470	.000v	3.378v	2.819
wartosci srednie				2.6035	.000	8.507	5.420

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna

- **Przekrój 3**

Wyniki obliczen w wezlach osi liczbowej
ZANIECZYSZCZENIE NR 1 - dwutlenek azotu
dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 25.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8644	322	0	27.099v	.000v	112.45	50.60
2	8636	328	0	27.215	.000v	118.79	52.70
3	8628	334	0	27.347	.000v	125.99	55.11
4	8621	341	0	27.492	.000v	132.71	57.80
5	8613	347	0	27.664	.000v	139.34	60.83
6	8605	354	0	27.862	.000v	146.39	63.71
7	8598	360	0	28.095	.000v	153.65	68.01
8	8590	366	0	28.370	.000v	158.93	71.85
9	8582	373	0	28.705	.000v	167.08	76.31
10	8575	379	0	29.130	.000v	170.40	84.44
11	8567	386	0	29.668	.000v	177.15	89.56
12	8559	392	0	30.400	.000v	183.92	101.95
13	8552	399	0	31.390	.000v	190.34	113.83
14	8544	405	0	32.717	.012	202.93	142.30
15	8536	411	0	32.601	.159	235.62	182.88
16	8529	418	0	30.952	.184^	336.33^	187.82^
17	8521	424	0	33.616^	.088	241.53	157.94
18	8513	431	0	33.462	.000v	186.76	118.34
19	8506	437	0	32.107	.000v	153.20	96.86
20	8498	444	0	31.070	.000v	135.86	84.81
21	8490	450	0	30.302	.000v	119.10	79.69
22	8483	456	0	29.724	.000v	110.34	72.64
23	8475	463	0	29.270	.000v	100.99	66.48
24	8467	469	0	28.908	.000v	94.88	63.53
25	8460	476	0	28.611	.000v	88.11	59.60
26	8452	482	0	28.361	.000v	83.60	57.77
27	8444	489	0	28.146	.000v	81.08	56.57
28	8437	495	0	27.963	.000v	79.00	53.82
29	8429	501	0	27.805	.000v	77.46	54.36
30	8421	508	0	27.660	.000v	76.12	52.33
31	8414	514	0	27.536	.000v	73.31v	49.80v
wartosci srednie				29.395	.014	143.66	83.36

ZANIECZYSZCZENIE NR 2 - PM10

dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 36.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8644	322	0	36.062v	.000v	2.36	1.29
2	8636	328	0	36.065	.000v	2.53	1.33
3	8628	334	0	36.069	.000v	2.70	1.40
4	8621	341	0	36.074	.000v	2.90	1.49
5	8613	347	0	36.080	.000v	3.08	1.54
6	8605	354	0	36.086	.000v	3.26	1.68
7	8598	360	0	36.094	.000v	3.49	1.77
8	8590	366	0	36.103	.000v	3.66	1.96
9	8582	373	0	36.113	.000v	3.92	2.12
10	8575	379	0	36.127	.000v	4.06	2.32
11	8567	386	0	36.145	.000v	4.28	2.61
12	8559	392	0	36.169	.000v	4.52	2.96
13	8552	399	0	36.201	.000v	4.80	3.48
14	8544	405	0	36.244	.000v	5.32	4.34
15	8536	411	0	36.240	.000v	7.19	5.46
16	8529	418	0	36.186	.000v	10.43^	5.90^
17	8521	424	0	36.273^	.000v	7.32	5.08
18	8513	431	0	36.268	.000v	5.53	3.87
19	8506	437	0	36.224	.000v	4.41	3.11
20	8498	444	0	36.190	.000v	3.83	2.64
21	8490	450	0	36.165	.000v	3.27	2.40
22	8483	456	0	36.146	.000v	2.97	2.17
23	8475	463	0	36.131	.000v	2.68	1.98
24	8467	469	0	36.120	.000v	2.47	1.81
25	8460	476	0	36.110	.000v	2.28	1.71
26	8452	482	0	36.102	.000v	2.12	1.60
27	8444	489	0	36.095	.000v	2.01	1.52
28	8437	495	0	36.089	.000v	1.88	1.44
29	8429	501	0	36.083	.000v	1.81	1.40
30	8421	508	0	36.079	.000v	1.69	1.31
31	8414	514	0	36.075	.000v	1.61v	1.26v
	wartosci srednie			36.136	.000	3.69	2.42

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]
tlo stezenia R = 2.300 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8644	322	0	2.4299v	.000v	6.231	3.052
2	8636	328	0	2.4375	.000v	6.601	3.179
3	8628	334	0	2.4460	.000v	7.031	3.369
4	8621	341	0	2.4554	.000v	7.457	3.490
5	8613	347	0	2.4666	.000v	7.847	3.660
6	8605	354	0	2.4794	.000v	8.297	3.942
7	8598	360	0	2.4946	.000v	8.768	4.101
8	8590	366	0	2.5125	.000v	9.114	4.399
9	8582	373	0	2.5342	.000v	9.643	4.723
10	8575	379	0	2.5620	.000v	9.895	5.125
11	8567	386	0	2.5970	.000v	10.345	5.739
12	8559	392	0	2.6447	.000v	10.794	6.336
13	8552	399	0	2.7093	.000v	11.294	7.220
14	8544	405	0	2.7956	.000v	12.128	8.926
15	8536	411	0	2.7882	.000v	15.244	11.385
16	8529	418	0	2.6806	.000v	21.881^	12.278^
17	8521	424	0	2.8544^	.000v	15.592	10.376
18	8513	431	0	2.8444	.000v	11.944	7.843
19	8506	437	0	2.7560	.000v	9.726	6.436
20	8498	444	0	2.6883	.000v	8.573	5.527
21	8490	450	0	2.6382	.000v	7.444	4.974
22	8483	456	0	2.6005	.000v	6.866	4.636
23	8475	463	0	2.5708	.000v	6.236	4.129
24	8467	469	0	2.5471	.000v	5.841	3.911
25	8460	476	0	2.5277	.000v	5.416	3.866
26	8452	482	0	2.5114	.000v	5.109	3.497
27	8444	489	0	2.4973	.000v	4.859	3.525
28	8437	495	0	2.4854	.000v	4.568	3.423
29	8429	501	0	2.4750	.000v	4.410	3.205

30	8421	508	0	2.4655	.000v	4.125	3.155
31	8414	514	0	2.4574	.000v	3.949v	3.030v
	wartosci srednie			2.5791	.000	8.620	5.241

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna

- **Przekrój 4**

Wyniki obliczen w wezlach osi liczbowej
ZANIECZYSZCZENIE NR 1 - dwutlenek azotu
dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 25.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8806	725	0	27.121v	.000v	100.89v	49.70
2	8796	723	0	27.239	.000v	106.33	52.05
3	8786	721	0	27.372	.000v	112.04	55.08
4	8776	720	0	27.524	.000v	118.93	58.77
5	8766	718	0	27.697	.000v	123.19	61.54
6	8756	717	0	27.904	.000v	131.30	64.59
7	8746	715	0	28.147	.000v	138.70	68.23
8	8736	714	0	28.435	.000v	146.68	72.15
9	8726	712	0	28.795	.000v	153.83	76.34
10	8717	710	0	29.247	.000v	162.35	79.29
11	8707	709	0	29.837	.000v	172.36	87.14
12	8697	707	0	30.633	.000v	181.02	97.08
13	8687	706	0	31.751	.000v	192.61	114.06
14	8677	704	0	33.307	.000v	198.66	133.88
15	8667	703	0	34.136^	.115	213.20	181.84
16	8657	701	0	32.601	.164^	298.23^	192.34^
17	8647	699	0	33.343	.053	225.91	129.45
18	8638	698	0	33.002	.012	202.36	89.56
19	8628	696	0	31.635	.000v	189.10	75.65
20	8618	695	0	30.659	.000v	178.94	69.32
21	8608	693	0	29.952	.000v	171.30	65.79
22	8598	692	0	29.421	.000v	166.55	63.10
23	8588	690	0	29.030	.000v	161.92	59.49
24	8578	689	0	28.707	.000v	154.04	57.01
25	8568	687	0	28.444	.000v	147.24	53.90
26	8559	685	0	28.228	.000v	140.56	53.17
27	8549	684	0	28.043	.000v	134.32	53.28
28	8539	682	0	27.882	.000v	128.65	49.86
29	8529	681	0	27.745	.000v	121.84	49.02
30	8519	679	0	27.621	.000v	115.31	46.57
31	8509	678	0	27.516	.000v	110.25	46.56v
	wartosci srednie			29.451	.011	158.02	77.61

ZANIECZYSZCZENIE NR 2 - PM10
dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 36.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8806	725	0	36.046v	.000v	3.01	1.43
2	8796	723	0	36.049	.000v	3.16	1.52
3	8786	721	0	36.051	.000v	3.33	1.57
4	8776	720	0	36.054	.000v	3.52	1.68
5	8766	718	0	36.058	.000v	3.64	1.71
6	8756	717	0	36.062	.000v	3.83	1.85
7	8746	715	0	36.067	.000v	3.99	1.88
8	8736	714	0	36.072	.000v	4.19	2.04
9	8726	712	0	36.079	.000v	4.33	2.07
10	8717	710	0	36.088	.000v	4.47	2.22
11	8707	709	0	36.100	.000v	4.66	2.33
12	8697	707	0	36.115	.000v	4.77	2.49
13	8687	706	0	36.136	.000v	4.90	2.74
14	8677	704	0	36.165	.000v	4.91	3.26
15	8667	703	0	36.181^	.000v	5.05	4.07^
16	8657	701	0	36.154	.000v	5.14^	4.05
17	8647	699	0	36.168	.000v	3.90	2.81
18	8638	698	0	36.163	.000v	3.50	2.26

19	8628	696	0	36.139	.000v	3.28	2.02
20	8618	695	0	36.122	.000v	3.11	1.83
21	8608	693	0	36.110	.000v	2.97	1.68
22	8598	692	0	36.100	.000v	2.89	1.64
23	8588	690	0	36.093	.000v	2.81	1.61
24	8578	689	0	36.087	.000v	2.68	1.50
25	8568	687	0	36.083	.000v	2.56	1.45
26	8559	685	0	36.079	.000v	2.44	1.45
27	8549	684	0	36.075	.000v	2.34	1.39
28	8539	682	0	36.072	.000v	2.24	1.33
29	8529	681	0	36.069	.000v	2.12	1.30
30	8519	679	0	36.067	.000v	2.01	1.27
31	8509	678	0	36.065	.000v	1.92v	1.22v
	wartosci srednie			36.096	.000	3.47	1.99

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]

tlo stezenia R = 2.300 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8806	725	0	2.4182v	.000v	6.464	3.099
2	8796	723	0	2.4247	.000v	6.799	3.270
3	8786	721	0	2.4319	.000v	7.162	3.508
4	8776	720	0	2.4402	.000v	7.584	3.634
5	8766	718	0	2.4496	.000v	7.847	3.906
6	8756	717	0	2.4609	.000v	8.323	3.997
7	8746	715	0	2.4740	.000v	8.730	4.319
8	8736	714	0	2.4896	.000v	9.210	4.446
9	8726	712	0	2.5090	.000v	9.556	4.775
10	8717	710	0	2.5334	.000v	10.027	4.923
11	8707	709	0	2.5650	.000v	10.556	5.232
12	8697	707	0	2.6075	.000v	10.954	5.677
13	8687	706	0	2.6671	.000v	11.459	6.862
14	8677	704	0	2.7500	.000v	11.699	7.813
15	8667	703	0	2.7944^	.000v	12.309	10.119
16	8657	701	0	2.7144	.000v	15.426^	10.446^
17	8647	699	0	2.7544	.000v	11.715	7.015
18	8638	698	0	2.7371	.000v	10.509	5.071
19	8628	696	0	2.6655	.000v	9.835	4.473
20	8618	695	0	2.6146	.000v	9.319	4.107
21	8608	693	0	2.5778	.000v	8.923	3.820
22	8598	692	0	2.5500	.000v	8.683	3.674
23	8588	690	0	2.5296	.000v	8.443	3.607
24	8578	689	0	2.5126	.000v	8.036	3.461
25	8568	687	0	2.4987	.000v	7.680	3.280
26	8559	685	0	2.4872	.000v	7.334	3.246
27	8549	684	0	2.4773	.000v	7.007	3.109
28	8539	682	0	2.4687	.000v	6.714	3.037
29	8529	681	0	2.4613	.000v	6.363	2.962
30	8519	679	0	2.4545	.000v	6.015	2.804
31	8509	678	0	2.4487	.000v	5.753v	2.772v
	wartosci srednie			2.5474	.000	8.917	4.596

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna

- **Przekrój 5**

Wyniki obliczen w wezlach osi liczbowej

ZANIECZYSZCZENIE NR 1 - dwutlenek azotu

dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]

tlo stezenia R = 25.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8918	1595	0	27.216v	.000v	70.47	44.04v
2	8908	1597	0	27.335	.000v	72.77	46.60
3	8898	1599	0	27.467	.000v	75.86	48.40
4	8888	1602	0	27.616	.000v	78.82	50.34
5	8879	1604	0	27.792	.000v	82.57	52.87
6	8869	1607	0	27.994	.000v	87.04	56.81

7	8859	1609	0	28.230	.000v	92.16	59.99
8	8850	1611	0	28.512	.000v	98.24	65.00
9	8840	1614	0	28.863	.000v	105.51	70.45
10	8830	1616	0	29.295	.000v	113.69	77.18
11	8820	1619	0	29.847	.000v	125.60	82.79
12	8811	1621	0	30.602	.000v	140.70	95.10
13	8801	1624	0	31.626	.000v	161.60	114.52
14	8791	1626	0	32.991	.000v	196.15	131.97
15	8782	1628	0	33.047	.141	252.09	181.89
16	8772	1631	0	31.839	.271^*	342.27^	243.21^*
17	8762	1633	0	33.642^	.185	249.44	197.09
18	8753	1636	0	33.006	.000v	188.55	154.18
19	8743	1638	0	31.669	.000v	157.35	122.86
20	8733	1640	0	30.682	.000v	135.02	106.90
21	8723	1643	0	29.949	.000v	118.68	93.15
22	8714	1645	0	29.409	.000v	107.38	83.51
23	8704	1648	0	28.979	.000v	97.97	76.69
24	8694	1650	0	28.630	.000v	91.73	70.88
25	8685	1653	0	28.351	.000v	84.93	64.51
26	8675	1655	0	28.113	.000v	80.37	61.91
27	8665	1657	0	27.914	.000v	75.33	58.20
28	8656	1660	0	27.738	.000v	71.70	53.78
29	8646	1662	0	27.586	.000v	68.77	51.83
30	8636	1665	0	27.453	.000v	64.72	49.47
31	8626	1667	0	27.334	.000v	62.40v	47.28
wartosci srednie				29.378	.019	120.96	87.53

ZANIECZYSZCZENIE NR 2 - PM10

dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]

tlo stezenia R = 36.00 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8918	1595	0	36.041v	.000v	1.26	.83v
2	8908	1597	0	36.044	.000v	1.30	.85
3	8898	1599	0	36.046	.000v	1.35	.89
4	8888	1602	0	36.049	.000v	1.40	.93
5	8879	1604	0	36.052	.000v	1.46	.96
6	8869	1607	0	36.056	.000v	1.54	1.02
7	8859	1609	0	36.060	.000v	1.63	1.09
8	8850	1611	0	36.065	.000v	1.73	1.19
9	8840	1614	0	36.071	.000v	1.86	1.29
10	8830	1616	0	36.079	.000v	2.00	1.40
11	8820	1619	0	36.089	.000v	2.20	1.51
12	8811	1621	0	36.103	.000v	2.46	1.65
13	8801	1624	0	36.121	.000v	2.82	1.98
14	8791	1626	0	36.146	.000v	3.42	2.46
15	8782	1628	0	36.147	.000v	4.39	3.16
16	8772	1631	0	36.125	.000v	6.14^	4.25^
17	8762	1633	0	36.158^	.000v	4.55	3.55
18	8753	1636	0	36.146	.000v	3.47	2.73
19	8743	1638	0	36.122	.000v	2.92	2.19
20	8733	1640	0	36.104	.000v	2.53	1.85
21	8723	1643	0	36.091	.000v	2.25	1.66
22	8714	1645	0	36.081	.000v	2.03	1.53
23	8704	1648	0	36.073	.000v	1.87	1.35
24	8694	1650	0	36.067	.000v	1.76	1.29
25	8685	1653	0	36.062	.000v	1.63	1.22
26	8675	1655	0	36.058	.000v	1.56	1.15
27	8665	1657	0	36.054	.000v	1.47	1.04
28	8656	1660	0	36.051	.000v	1.39	1.02
29	8646	1662	0	36.048	.000v	1.35	1.00
30	8636	1665	0	36.046	.000v	1.27	.94
31	8626	1667	0	36.044	.000v	1.23v	.87
wartosci srednie				36.081	.000	2.20	1.58

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]

tlo stezenia R = 2.300 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	8918	1595	0	2.4180v	.000v	3.772	2.324v

2	8908	1597	0	2.4243	.000v	3.885	2.415
3	8898	1599	0	2.4312	.000v	4.040	2.507
4	8888	1602	0	2.4391	.000v	4.189	2.626
5	8879	1604	0	2.4483	.000v	4.391	2.814
6	8869	1607	0	2.4589	.000v	4.624	3.046
7	8859	1609	0	2.4714	.000v	4.885	3.233
8	8850	1611	0	2.4862	.000v	5.195	3.406
9	8840	1614	0	2.5047	.000v	5.566	3.650
10	8830	1616	0	2.5275	.000v	5.992	3.996
11	8820	1619	0	2.5565	.000v	6.612	4.464
12	8811	1621	0	2.5963	.000v	7.387	4.927
13	8801	1624	0	2.6502	.000v	8.467	5.936
14	8791	1626	0	2.7221	.000v	10.267	7.076
15	8782	1628	0	2.7251	.000v	13.159	9.436
16	8772	1631	0	2.6614	.000v	17.931^	12.736^
17	8762	1633	0	2.7565^	.000v	13.143	10.433
18	8753	1636	0	2.7229	.000v	9.963	8.043
19	8743	1638	0	2.6525	.000v	8.329	6.380
20	8733	1640	0	2.6005	.000v	7.175	5.540
21	8723	1643	0	2.5619	.000v	6.325	4.933
22	8714	1645	0	2.5336	.000v	5.724	4.328
23	8704	1648	0	2.5110	.000v	5.243	3.977
24	8694	1650	0	2.4926	.000v	4.897	3.775
25	8685	1653	0	2.4779	.000v	4.545	3.446
26	8675	1655	0	2.4653	.000v	4.322	3.221
27	8665	1657	0	2.4548	.000v	4.039	3.062
28	8656	1660	0	2.4456	.000v	3.854	2.885
29	8646	1662	0	2.4376	.000v	3.707	2.696
30	8636	1665	0	2.4306	.000v	3.478	2.626
31	8626	1667	0	2.4244	.000v	3.359v	2.508
	wartosci srednie			2.5319	.000	6.402	4.595

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna

- **Przekrój 6**

Wyniki obliczen w wezlach osi liczbowej
ZANIECZYSZCZENIE NR 1 - dwutlenek azotu
dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 25.00 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	9232	2866	0	27.152v	.000v	63.77	45.51v
2	9222	2867	0	27.279	.000v	66.32	49.13
3	9212	2869	0	27.415	.000v	69.67	50.19
4	9202	2871	0	27.570	.000v	73.60	52.00
5	9192	2873	0	27.753	.000v	77.17	56.24
6	9182	2875	0	27.961	.000v	82.73	56.27
7	9173	2877	0	28.213	.000v	88.07	61.00
8	9163	2879	0	28.513	.000v	95.79	67.22
9	9153	2881	0	28.866	.000v	103.81	73.92
10	9143	2883	0	29.306	.000v	114.03	81.27
11	9133	2885	0	29.863	.000v	128.11	92.38
12	9124	2886	0	30.588	.000v	150.73	107.77
13	9114	2888	0	31.609	.000v	189.42	119.87
14	9104	2890	0	32.902	.037	243.02	149.44
15	9094	2892	0	33.052	.182	291.49	186.91
16	9084	2894	0	31.939	.245^*	324.11^	234.56^*
17	9074	2896	0	33.395^	.105	235.34	172.08
18	9065	2898	0	32.822	.000v	182.15	134.55
19	9055	2900	0	31.560	.000v	152.66	108.62
20	9045	2902	0	30.629	.000v	131.03	96.85
21	9035	2904	0	29.939	.000v	117.27	86.55
22	9025	2906	0	29.399	.000v	106.60	78.57
23	9016	2907	0	28.978	.000v	98.30	70.94
24	9006	2909	0	28.638	.000v	91.03	65.41
25	8996	2911	0	28.368	.000v	85.30	60.41
26	8986	2913	0	28.127	.000v	81.32	56.35
27	8976	2915	0	27.926	.000v	76.32	54.57
28	8966	2917	0	27.750	.000v	72.99	51.78
29	8957	2919	0	27.600	.000v	68.83	48.94
30	8947	2921	0	27.467	.000v	65.54	46.76
31	8937	2923	0	27.342	.000v	62.99v	45.54

wartosci srednie	29.352	.018	122.24	85.86

ZANIECZYSZCZENIE NR 2 - PM10

dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]

tlo stezenia R = 36.00 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	9232	2866	0	36.042v	.000v	1.19	.84
2	9222	2867	0	36.044	.000v	1.23	.91
3	9212	2869	0	36.047	.000v	1.29	.93
4	9202	2871	0	36.050	.000v	1.37	.95
5	9192	2873	0	36.053	.000v	1.44	1.03
6	9182	2875	0	36.057	.000v	1.52	1.04
7	9173	2877	0	36.062	.000v	1.62	1.15
8	9163	2879	0	36.068	.000v	1.76	1.25
9	9153	2881	0	36.075	.000v	1.91	1.37
10	9143	2883	0	36.083	.000v	2.10	1.50
11	9133	2885	0	36.094	.000v	2.36	1.71
12	9124	2886	0	36.108	.000v	2.78	2.00
13	9114	2888	0	36.128	.000v	3.49	2.21
14	9104	2890	0	36.153	.000v	4.48	2.76
15	9094	2892	0	36.156	.000v	5.38	3.48
16	9084	2894	0	36.134	.000v	6.03^	4.35^
17	9074	2896	0	36.163^	.000v	4.38	3.19
18	9065	2898	0	36.151	.000v	3.39	2.49
19	9055	2900	0	36.127	.000v	2.84	2.01
20	9045	2902	0	36.109	.000v	2.44	1.79
21	9035	2904	0	36.096	.000v	2.18	1.60
22	9025	2906	0	36.085	.000v	1.98	1.45
23	9016	2907	0	36.077	.000v	1.83	1.32
24	9006	2909	0	36.070	.000v	1.70	1.21
25	8996	2911	0	36.065	.000v	1.59	1.11
26	8986	2913	0	36.061	.000v	1.51	1.04
27	8976	2915	0	36.057	.000v	1.41	1.00
28	8966	2917	0	36.053	.000v	1.35	.95
29	8957	2919	0	36.050	.000v	1.28	.89
30	8947	2921	0	36.048	.000v	1.22	.86
31	8937	2923	0	36.045	.000v	1.18v	.83v
wartosci srednie				36.084	.000	2.26	1.59

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]

tlo stezenia R = 2.300 [ug/m3]

numer wezla -	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	9232	2866	0	2.4206v	.000v	3.406	2.482v
2	9222	2867	0	2.4277	.000v	3.542	2.671
3	9212	2869	0	2.4354	.000v	3.758	2.782
4	9202	2871	0	2.4441	.000v	3.985	2.852
5	9192	2873	0	2.4545	.000v	4.245	3.075
6	9182	2875	0	2.4662	.000v	4.556	3.125
7	9173	2877	0	2.4804	.000v	4.848	3.389
8	9163	2879	0	2.4973	.000v	5.277	3.734
9	9153	2881	0	2.5172	.000v	5.724	4.094
10	9143	2883	0	2.5421	.000v	6.287	4.501
11	9133	2885	0	2.5735	.000v	7.072	5.130
12	9124	2886	0	2.6144	.000v	8.332	5.987
13	9114	2888	0	2.6720	.000v	10.474	6.631
14	9104	2890	0	2.7450	.000v	13.450	8.194
15	9094	2892	0	2.7535	.000v	16.142	10.254
16	9084	2894	0	2.6906	.000v	17.855^	12.958^
17	9074	2896	0	2.7729^	.000v	12.942	9.559
18	9065	2898	0	2.7404	.000v	9.973	7.430
19	9055	2900	0	2.6691	.000v	8.325	6.016
20	9045	2902	0	2.6166	.000v	7.132	5.381
21	9035	2904	0	2.5776	.000v	6.364	4.808
22	9025	2906	0	2.5472	.000v	5.766	4.330
23	9016	2907	0	2.5234	.000v	5.302	3.847
24	9006	2909	0	2.5042	.000v	4.900	3.631
25	8996	2911	0	2.4889	.000v	4.582	3.328
26	8986	2913	0	2.4753	.000v	4.356	3.121

27	8976	2915	0	2.4640	.000v	4.080	2.991
28	8966	2917	0	2.4541	.000v	3.899	2.835
29	8957	2919	0	2.4456	.000v	3.671	2.675
30	8947	2921	0	2.4381	.000v	3.495	2.545
31	8937	2923	0	2.4310	.000v	3.359v	2.491
	wartosci srednie			2.5446	.000	6.681	4.737

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna

- **Przekrój 7**

Wyniki obliczen w wezlach osi liczbowej
ZANIECZYSZCZENIE NR 1 - dwutlenek azotu
dopuszczalne D1 = 200.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 25.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	9124	3909	0	27.271	.000v	86.18	45.85
2	9114	3907	0	27.394	.000v	88.64	48.40
3	9104	3906	0	27.534	.000v	90.60	49.50
4	9094	3904	0	27.694	.000v	93.25	51.44
5	9084	3903	0	27.878	.000v	96.96	53.50
6	9074	3902	0	28.092	.000v	100.44	60.17
7	9064	3900	0	28.336	.000v	104.10	63.58
8	9054	3899	0	28.640	.000v	110.10	66.98
9	9044	3897	0	29.003	.000v	115.72	70.37
10	9034	3896	0	29.456	.000v	122.01	81.43
11	9024	3895	0	30.047	.000v	130.84	88.84
12	9015	3893	0	30.831	.000v	144.27	96.56
13	9005	3892	0	31.913	.000v	161.09	116.98
14	8995	3890	0	33.404	.000v	190.20	141.59
15	8985	3889	0	33.543^	.169	239.11	186.25
16	8975	3888	0	32.281	.275^*	313.81^	233.96^*
17	8965	3886	0	33.226	.108	215.32	180.88
18	8955	3885	0	32.285	.000v	160.39	133.32
19	8945	3883	0	30.982	.000v	127.31	107.54
20	8935	3882	0	30.051	.000v	109.72	92.20
21	8925	3881	0	29.381	.000v	95.19	81.98
22	8916	3879	0	28.888	.000v	84.24	73.28
23	8906	3878	0	28.497	.000v	77.47	66.47
24	8896	3876	0	28.186	.000v	70.59	60.37
25	8886	3875	0	27.932	.000v	64.47	56.83
26	8876	3874	0	27.718	.000v	60.72	52.69
27	8866	3872	0	27.537	.000v	56.22	49.09
28	8856	3871	0	27.382	.000v	52.34	46.15
29	8846	3870	0	27.245	.000v	49.40	43.56
30	8836	3868	0	27.124	.000v	46.96	41.41
31	8826	3867	0	27.020v	.000v	45.03v	39.32v
	wartosci srednie			29.251	.018	112.99	83.24

ZANIECZYSZCZENIE NR 2 - PM10
dopuszczalne D1 = 280.00 [ug/m3] Da = 40.000 [ug/m3]
tlo stezenia R = 36.00 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	9124	3909	0	36.044	.000v	1.62	.84
2	9114	3907	0	36.046	.000v	1.66	.90
3	9104	3906	0	36.049	.000v	1.70	.92
4	9094	3904	0	36.052	.000v	1.75	.95
5	9084	3903	0	36.055	.000v	1.81	.99
6	9074	3902	0	36.059	.000v	1.87	1.10
7	9064	3900	0	36.064	.000v	1.93	1.18
8	9054	3899	0	36.070	.000v	2.04	1.24
9	9044	3897	0	36.077	.000v	2.15	1.30
10	9034	3896	0	36.085	.000v	2.25	1.49
11	9024	3895	0	36.096	.000v	2.41	1.65
12	9015	3893	0	36.111	.000v	2.65	1.79
13	9005	3892	0	36.132	.000v	2.95	2.18
14	8995	3890	0	36.160	.000v	3.47	2.57
15	8985	3889	0	36.163^	.000v	4.35	3.44

16	8975	3888	0	36.139	.000v	5.71^	4.25^
17	8965	3886	0	36.157	.000v	3.92	3.29
18	8955	3885	0	36.139	.000v	2.92	2.42
19	8945	3883	0	36.114	.000v	2.32	1.96
20	8935	3882	0	36.096	.000v	2.00	1.68
21	8925	3881	0	36.084	.000v	1.74	1.49
22	8916	3879	0	36.074	.000v	1.54	1.33
23	8906	3878	0	36.067	.000v	1.42	1.21
24	8896	3876	0	36.061	.000v	1.29	1.10
25	8886	3875	0	36.056	.000v	1.18	1.03
26	8876	3874	0	36.052	.000v	1.11	.97
27	8866	3872	0	36.049	.000v	1.03	.89
28	8856	3871	0	36.046	.000v	.96	.84
29	8846	3870	0	36.043	.000v	.90	.80
30	8836	3868	0	36.041	.000v	.86	.75
31	8826	3867	0	36.039v	.000v	.83v	.72v
	wartosci srednie			36.081	.000	2.08	1.53

ZANIECZYSZCZENIE NR 3 - benzen

dopuszczalne D1 = 30.000 [ug/m3] Da = 5.0000 [ug/m3]

tlo stezenia R = 2.300 [ug/m3]

numer wezla	wspolrzedne wezla x [m]	y [m]	z [m]	stezenie srednie+R [ug/m3]	czestosc przekr. [%]	stezenia 1-godz. Smax [ug/m3]	S99.8 [ug/m3]
1	9124	3909	0	2.4262	.000v	4.716	2.518
2	9114	3907	0	2.4330	.000v	4.849	2.652
3	9104	3906	0	2.4408	.000v	4.955	2.710
4	9094	3904	0	2.4497	.000v	5.097	2.816
5	9084	3903	0	2.4599	.000v	5.295	2.937
6	9074	3902	0	2.4718	.000v	5.482	3.303
7	9064	3900	0	2.4854	.000v	5.680	3.484
8	9054	3899	0	2.5023	.000v	6.007	3.668
9	9044	3897	0	2.5224	.000v	6.312	3.853
10	9034	3896	0	2.5476	.000v	6.650	4.466
11	9024	3895	0	2.5804	.000v	7.131	4.866
12	9015	3893	0	2.6240	.000v	7.861	5.293
13	9005	3892	0	2.6841	.000v	8.778	6.404
14	8995	3890	0	2.7670	.000v	10.372	7.723
15	8985	3889	0	2.7747^	.000v	13.048	10.170
16	8975	3888	0	2.7045	.000v	17.145^	12.762^
17	8965	3886	0	2.7571	.000v	11.769	9.871
18	8955	3885	0	2.7047	.000v	8.771	7.272
19	8945	3883	0	2.6324	.000v	6.967	5.868
20	8935	3882	0	2.5806	.000v	6.005	5.031
21	8925	3881	0	2.5434	.000v	5.214	4.471
22	8916	3879	0	2.5160	.000v	4.613	3.997
23	8906	3878	0	2.4943	.000v	4.246	3.626
24	8896	3876	0	2.4770	.000v	3.868	3.294
25	8886	3875	0	2.4629	.000v	3.535	3.100
26	8876	3874	0	2.4511	.000v	3.333	2.902
27	8866	3872	0	2.4410	.000v	3.084	2.679
28	8856	3871	0	2.4324	.000v	2.874	2.519
29	8846	3870	0	2.4248	.000v	2.715	2.401
30	8836	3868	0	2.4180	.000v	2.579	2.260
31	8826	3867	0	2.4123v	.000v	2.475v	2.147v
	wartosci srednie			2.5362	.000	6.175	4.551

* - przekroczenie wartosci dopuszczalnej
^ - wartosc maksymalna
v - wartosc minimalna