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35. 7. (,, 72/2009 81/2009-
 64/2010 – , 24/2011, 121/2012, 42/2013- , 50/2013- 98/2013- , 132/2014, 145/2014, 83/2018, 31/2019 37/2019),
 32.
 („ , 32/2019), 9, 5.
 („ , 135/2004 88/2010), 35. 6. („
 „, 1/2019) 41. 1. 6. („
 „ 10/19), („ 2/2019
 23.12.2019. 18.12.2019.

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1.1.

- („, 72/09, 81/09, 64/10, 24/11,
 121/12, 42/13, 50/13, 98/13, 132/14, 145/14, 83/18, 31/2019 37/2019);
 - („, 41/18);
 - („, 135/04, 36/09, 36/09-
 , 72/09- , 43/11- 14/16);
 - („, „,
 135/04 88/10);
 - („, 50/11);
 - („, „, 32/2019)



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183,59ha, 237,59ha, 54,00ha.

: 5175/4, 5178, 3092, 3090/5, 3090/1, 3086/1, 3086/3, 3046/22, 3074/7, 3074/3, 3075/3, 3075/7, 3077/15, 3077/16, 3074/6, 3074/5, 3075/5, 3077/13, 3077/11, 3077/8, 3080, 3078/1, 3081/1, 3084/1, 3086/2, 3086/4, 3086/5, 3084/2, 3084/3, 3082/3, 3047/3, 3081/3, 3081/2, 3078/3, 3078/2, 3098/2, 3085/3, 3085/2, 3085/4, 3111/6, 3111/5, 3124/2, 3124/3 3085/5.
: 3083, 5348, 5346, 5345, 5325, 5344/2, 5419, 5338, 5331, 5332, 5333, 5327, 5143/4, 5330, 5329, 5328, 5196, 5197/9, 5197/8, 5197/7, 5197/6, 5197/5, 5197/4, 5197/12, 5197/23, 5197/1, 5197/24, 5193, 5192, 5191, 5188/2, 5188/8, 5187, 5175/11, 5175/5, 5175/6, 5176, 5175/9, 4300, 5159, 4324, 5172/2, 5173, 5429, 4331, 4302/1, 4301/1, 4298, 4296, 4295/2, 4301/2,

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. . . : 751, 752/2, 752/3, 752/6, 752/4, 752/5, 757/1, 757/3, 757/2, 768, 1209/2, 1312/4, 1212/1, 1312/3, 1209/1, 1205/3, 1204, 1203, 1201/3, 1201/2, 1201/4, 1201/7, 1201/8, 1200, 1197/1, 1197/2, 1196, 1195/1, 1194, 1306, 1307, 1308, 1310, 1309/4, 1309/1, 1321, 1320, 1319, 1318/1, 1318/2, 1317, 1325, 1328, 1327/2, 1329, 1330, 1331, 1347, 1352/2, 1352/1, 1351/2, 1351/1, 1350, 1349, 1348/3, 1345, 1346, 771/3, 769, 771/1, 812, 773, 776/2, 776/1, 1596/2, 1142/1, 775/1, 1637 (3574/1 . . .), 1316, 1195/2, 1201/5 761.

. . . : 817/3, 982/8 982/2.
: 877, 879, 876, 875, 874, 873/5, 873/4, 873/3, 872, 854/1, 881, 908/1, 855, 856, 859, 860/1, 925, 860/2, 861/1, 862/2, 863, 868/3, 868/2, 868/1, 867, 862/1, 967/11, 866, 865, 864, 833/2, 833/1, 834/1, 843, 834/2, 835, 836, 837/2, 837/1, 919, 806, 807, 808, 809, 810/1, 810/2, 810/3, 811/2, 811/1, 812, 813/1, 813/2, 814, 815/2, 815/1, 818, 825, 816/1, 816/4, 816/3, 816/2, 817/5, 817/4, 817/2, 928, 728, 727/1, 727/2, 767/1, 719, 720/3, 720/2, 720/1, 718/2, 722/3, 718/1, 722/1, 736/3, 736/5, 736/1, 736/4, 736/2, 765/2, 982/10, 542, 932, 935, 936, 989, 764, 820, 821/1 979/1 967/1.

. . . : 1738, 1753, 1752, 1743/1.
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: 982/10, 722/1, 722/3, 718/2 718/1.

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:722/1

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: 872, 854/1, 873/3, 873/4 873/5.

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: 843, 834/1, 833/1, 833/2, 864, 865, 967/11, 863, 967/1, 862/1, 862/2, 861/1, 860/2, 860/1, 856, 854/1, 925, 859 855.

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: 982/8, 736/3, 736/5, 736/1, 736/4, 736/2, 765/2 982/10.

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: 982/2.

: 542, 932 982/10.

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: 856, 854/1, 872, 873/4, 873/5, 874, 876, 860/1, 925, 859, 856, 855, 908/1, 881 875.

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: 843, 967/11, 967/1, 833/1, 833/2, 864, 865, 862/1 863.

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: 806, 919, 834/1, 834/2, 835, 836, 837/2, 837/1, 813/2 813/1.

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: 817/3.

: 817/2, 817/4 817/5.

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: 718/1, 767/1, 727/2 727/1.

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: 718/1.

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: 719 720/3.

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: 989, 936, 935, 982/10, 736/3, 982/8, 764, 722/1, 722/3, 718/2 718/1.

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: 771/1, 769, 812, 776/2, 773, 776/1, 1596/2 775/1.

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: 771/1, 769 771/3.

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: 1637.

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: 1309/4, 1309/1, 1310, 1306, 1307 1308.

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: 1346, 1348/3, 1345 1349.

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: 3408/1, 3407/2, 3407/1, 3406/2, 3406/1, 3383/1, 3384/1, 3385, 3410, 3411/1, 3411/2, 3412, 3413, 3414/1, 3414/2, 3414/3, 3415, 3416, 3417, 3418, 3419, 3420/2, 3420/1, 3421/1, 3421/5, 3422/2, 3423/1, 3423/2, 3424, 3425, 3481, 3482, 3483, 3480/1, 3480/2, 3480/3, 3478, 3477/2, 3477/1, 3476/2, 3476/4, 3476/3, 3476/5, 3476/6, 3476/1, 3437/3, 3438, 3439, 3440, 3441/1, 3441/2, 3441/3,

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3877/2, 5423, 3403/1, 3402, 3401, 3400, 3399, 3398, 3397, 3396/1, 3396/2, 3395 3394.

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:5175/4, 5178 5177.

: 5331, 5332, 5329, 5330, 5139, 5327, 5143/4, 5328, 5196, 5197/23, 5197/12, 5197/5,
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: 5325 5344/2.

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: 3077/9, 3047/1, 3076/4, 3076/3, 3079, 3080, 3078/1, 3078/2, 3077/4, 3077/8, 3047/3
3078/3.

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3111/3, 3111/1 3111/2.

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3477/2, 3476/2, 3476/4, 3476/3, 3476/5, 3476/6, 3476/1, 3475/1, 3475/3, 3475/5, 3440 3439.

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3407/2, 3407/1, 3406/2 3406/1.

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: 4306/1, 4299, 4298, 4294/7, 4306/2, 4293/4, 4293/2, 4293/3, 4293/1, 4292, 4290,
4318/4 4318/3.

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: 5329, 5330, 5139, 5327, 5331, 5332, 5139, 5143/4 5328.

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:5346, 5345, 5325, 5344/2 5419.

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: 1738.

: 1740, 1739/2, 3574/1, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 760, 1761, 1762, 1763, 1764/1, 1764/2, 1764/3, 1764/4, 1765, 1766, 1767, 1768 1737.

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: 2029/18.

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: 4810, 4927 4811.

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: 4811, 4810 4927.

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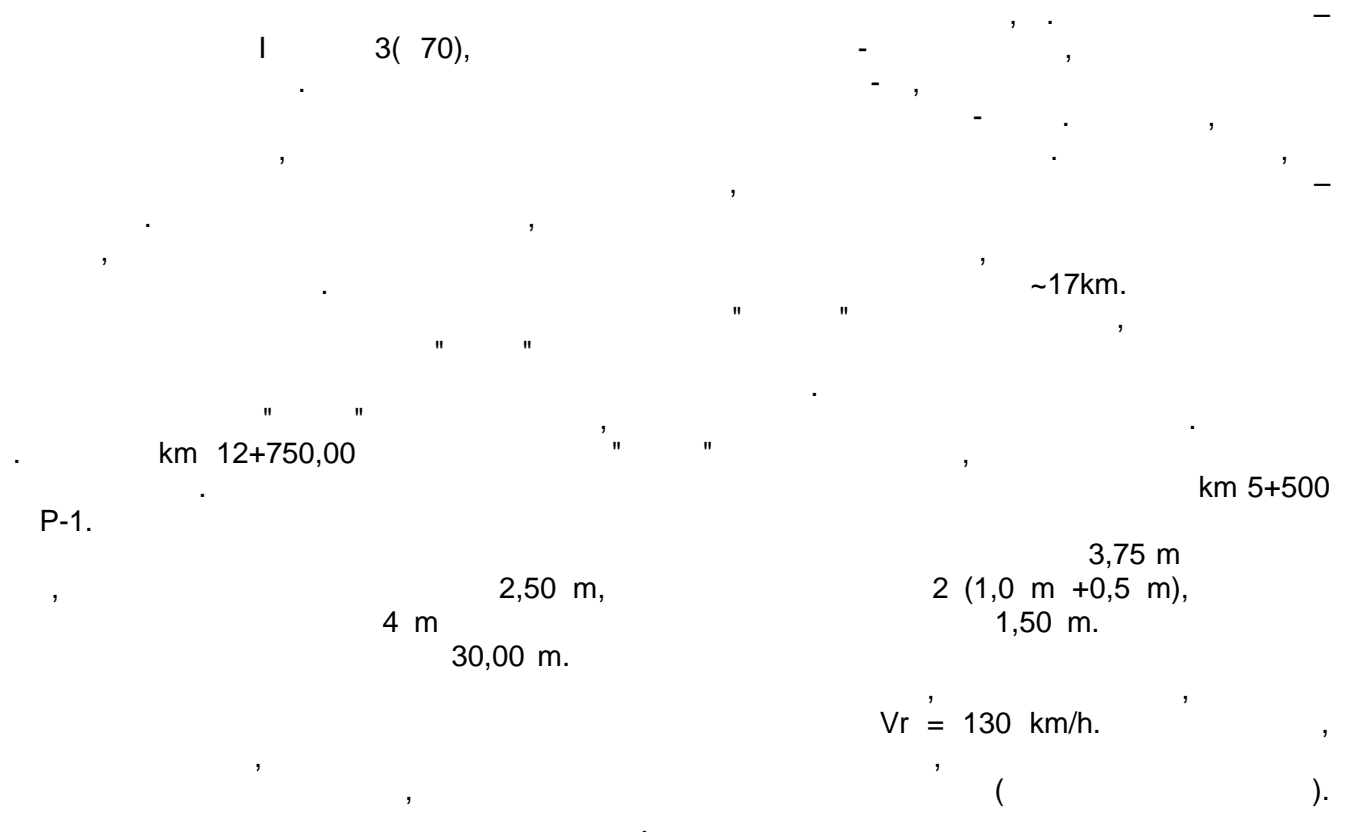
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	() (m ²)	()	() (m ²)
(m ² /ha)	242618 m ² (~24,26ha)	() (m ² /ha)	1948846m ² (~194,89ha)
(m ² /ha)	252559 m ² (~25,25 ha)	() (m ² /ha)	270 m ² (~0,03 ha)
(m ² /ha)	109263m ² (~10,92 ha)	() (m ² /ha)	71192 m ² (~7,11 ha)
(m ² /ha)	1771543 m ² (~177,15 ha)	() (m ² /ha)	158435 m ² (~15,84 ha)
		() (m ² /ha)	197126 m ² (~19,71 ha)
	2375869m² (~237,59ha)		2375869m² (~237,59ha)

je~237,59ha

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3.4.1.



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101/2005, 123/2007, 101/2011 93/2012),

80-90m;

40,0 m;

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(2) : I 3 (70)

„ km 10+362.

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	0+588,47	0+435,15	0+741,795	4 , 70, 3
	0+513,09	0+379,175	0+647,005	3 , E 70
	1+015,58	1+012,33	1+018,83	
	0+720,18 0+940,096	0+755,53 0+935,79	0+764,12 0+944,41	
	4+876,64			-
	0+234,32			
	0+837,303	0+712,1	0+962,50	-

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1	1+652,082	1+646,732	1+657,432	
2	1+946,59	1+936,803	1+956,385	
3	2+164,585	2+159,225	2+169,946	
4	2+904,18	2+895,95	2++912,41	
5	3+324,76	3+317,18	3+332,33	
6	3+773,02	3+767,028	3+778,995	
7	4+479,18	4+475,93	4+475,93	1
8	5+764,72	5+575,35	5+772,09	
9	6+281,17	6+275,82	5+286,52	1
10	6+659,225	6+653,835	6+664,614	1
11	6+829,89	6+846,56	6+843,16	()
12	7+336,51	7+328,16	7+344,86	
13	7+874,65	7+865,91	7+883,40	
14	8+214,86	8+208,36	8+221,36	-5 . .
15	8+498,48	8+492,07	8+504,88	-7 . .
16	8+590,45	8+584,29	8+596,635	
17	9+827,76	9+822,41	8+833,11	
18	10+446,08d 10+505,29l	10+434,58d 10+443,78l	10+557,58d 10+566,79l	
19	10+886,81	10+879,26	10+894,37	-3 . .
20	11+011,5	11+008,75	11+014,25	
21	11+080,67	11+072,84	11+088,50	-5 . . +
22	11+819,205	11+813,715	11+824,70	-9 . .
23	13+167,70	13+159,86	13+175,54	-17 . .
24	13+668,81	13+646,81	13+690,81	+
25	14+526.11	14+521.81	14+530.41	
26	16+736,28			



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km 15+000

1,2 km

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3.4.3.1.

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1:1.75

3.0 m

1:2

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13.06.2019.

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3,0 m
5,0 m
km9+725-km10+425

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9+600),

I (km 15+525)

(km 15+900),

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.4 -

			h (m)	O	B2	A(m ²)	n	v(m/s)	Q (l/s)
1		2+749	0.50	2.40	2.1	0.68	0.025	0.27	183.11
2		0+254	0.50	2.40	2.1	0.68	0.025	0.60	404.50
3		0+328	0.50	2.40	2.1	0.68	0.025	0.60	404.50
4		1+500	0.56	2.62	2.28	0.81	0.025	0.32	254.73
5		2+002	0.50	2.40	2.1	0.68	0.025	0.27	183.11
6		0+131	0.50	2.40	2.1	0.68	0.025	0.38	258.95
7		0+381	0.50	2.40	2.1	0.68	0.025	0.38	258.95
8		0+192	0.50	2.80	2.5	0.88	0.025	0.51	444.02
9		0+981	0.50	2.40	2.1	0.68	0.025	0.38	258.95
10		1+032	1.46	6.26	5.38	4.66	0.025	0.73	3418.80
11		0+988	0.50	2.60	2.3	0.78	0.025	0.35	272.97
12	1	0+834	0.50	2.40	2.1	0.68	0.025	0.45	304.20
13	2	0+800	0.50	2.40	2.1	0.68	0.025	0.49	327.55
14	(	0+370	0.87	3.74	3.21	1.66	0.025	0.40	667.78
15	1	0+405	0.50	2.60	2.3	0.78	0.025	0.71	552.90
16	1	0+238	0.50	2.80	2.5	0.88	0.025	0.31	269.51
17		7+100	2.18	14.86	13.54	22.39	0.025	0.58	12892.99
18	1	0+105	0.50	2.40	2.1	0.68	0.025	0.57	384.09
19	.	0+423	1.50	6.91	6.0	5.63	0.025	0.41	2321.36
20		0+741	0.55	2.56	2.175	0.82	0.025	0.32	264.88
21	-3 ..	0+650	0.35	1.92	1.675	0.43	0.025	0.18	78.61
22	-5 ..	0+734	0.40	2.08	1.8	0.52	0.025	0.17	90.40
23	-7 ..	0+801	0.35	1.92	1.675	0.43	0.025	0.18	78.61
24	-11 ..	0+445	0.35	1.92	1.675	0.43	0.025	0.26	111.17
25	-13 ..	0+400	0.40	2.08	1.8	0.52	0.025	0.22	116.71
26	-15 ..	0+330	0.25	1.60	1.425	0.28	0.025	0.22	60.00
27		2+000	0.52	2.46	2.1	0.75	0.025	0.31	237.16
28	-1 ..	1+390	0.35	2.06	1.85	0.46	0.025	0.21	97.02
29	-3 ..	1+340	0.35	1.92	1.675	0.43	0.025	0.26	111.17
30	-5 -	0+583	0.35	2.06	1.85	0.46	0.025	0.44	204.65
31	-7 ..	0+000	0.40	2.08	1.8	0.52	0.025	0.22	116.71
32	-7 ..	0+092	0.40	2.08	1.8	0.52	0.025	0.22	116.71

			h (m)	O	B2	A(m ²)	n	v(m/s)	Q (l/s)
33	-7 . .	1+060	0.40	2.08	1.8	0.52	0.025	0.22	116.71
34	-9 . .	1+155	0.30	1.68	1.5	0.31	0.025	0.23	71.44
35	1	0+000	0.40	2.04	1.8	0.48	0.025	0.61	292.48
36	1	0+720	0.40	2.04	1.8	0.48	0.025	0.61	292.48
37	-13 . .	0+000	0.40	2.08	1.8	0.52	0.025	0.22	116.71
38	-13 . .	0+046	0.40	2.08	1.8	0.52	0.025	0.22	116.71
39	-13 . .	0+520	0.40	2.08	1.8	0.52	0.025	0.22	116.71
40	-15 . .	0+472	0.45	2.24	1.925	0.61	0.025	0.24	146.18
41	-17 . .	0+248	0.45	2.24	1.925	0.61	0.025	0.24	146.18
42	K-18 . .	0+000	0.30	1.76	1.55	0.35	0.025	0.19	68.24
43	-18	0+090	0.30	1.76	1.55	0.35	0.025	0.19	68.24
44	-18 . .	0+410	0.30	1.76	1.55	0.35	0.025	0.19	68.24
45	-19 . .	0+030	0.30	1.78	1.58	0.36	0.025	0.19	69.09
46	-19 . .	0+120	0.30	1.76	1.55	0.35	0.025	0.19	68.24
47		2+650	0.50	2.60	2.25	0.81	0.025	0.18	149.63
48	-20 . .	0+267	0.20	1.44	1.3	0.21	0.025	0.19	40.30
49	1	1+179	0.50	2.40	2.10	0.68	0.025	0.27	183.11
50		1+260	5.54	79.97	76.62	378.44	0.025	0.66	248797.00
51		2+185	0.50	2.40	2.10	0.68	0.025	0.36	240.14
52	()		0,98	4.13	3.54	2.03	0.025	0.43	874,44

()

" / , "

" "

=10

t_k=5min.

0,9 (1000 m, i = 280 l/s/ha, a

1,0, 1000 m, i = 200

l/s/ha. 0,25),

.5 -

			Sp(m/m)	(m)		h (m)	v(m/s)	Q (l/s)	
1		2+002	0.00025	0.6	1.5	0.50	0.27	183.11	SEP A1,A2
2		0+381	0.0005	1	1.5	0.50	0.41	360.15	SEP A3
3		1+032	0.0005	1	1.5	1.46	0.73	3418.80	SEP A4
4		0+988	0.00039	0.8	1.5	0.50	0.35	272.97	SEP A5,A6
5	1	0+834	0.00069	0.6	1.5	0.50	0.45	304.20	SEP A7,A8
6	2	0+800	0.0008	0.6	1.5	0.50	0.49	327.55	SEP A9,A10
7	1	0+405	0.0016	0.8	1.5	0.50	0.71	552.90	SEP A11,A12
8	.	0+423	0.00014	1.5	1.5	1.50	0.41	2321.36	SEP A13,A14
9		2+000	0.0003	0.8	1.25	0.52	0.31	237.16	SEP A15,A16,A17, A18
10	-3 . .	1+340	0.0003	0.8	1.25	0.35	0.26	111.17	SEP A19,SEPA19-1
11	-9 . .	1+155	0.0003	1	1.5	0.30	0.24	106.12	SEP A20, SEP A20-1
12	-15 . .	0+472	0.0002	0.8	1.25	0.45	0.24	146.18	SEP A21,A22
13	1	1+179	0.00025	0.6	1.5	0.50	0.27	183.11	SEP A23,A24,A25, A26
14		2+185	0.00043	0.6	1.5	0.50	0.36	240.14	SEP A27
15		1+500	0.0003	0.6	1.5	0.56	0.32	254.73	SEP 1- SEP5
16	B-17 . .	0+330	0.0002	0.8	1.25	0.25	0.18	48.99	SEP B 1
17	()	1+260	0.0003	0,6	1.5	0,98	0,43	874.44	SEP B 2

.6 -

			Sp(m/m)	(m)		h max (m)	v(m/s)	Q (l/s)
1		2+002	0.00025	0.6	1.5	1.24	0.45	1374.76
2		0+381	0.0005	1	1.5	0.81	0.53	952.95
3		1+032	0.0005	1	1.5	2.41	0.98	10905.97
4		0+988	0.00039	0.8	1.5	2.18	0.80	7122.99
5	1	0+834	0.00069	0.6	1.5	1.24	0.75	2283.93
6	2	0+800	0.0008	0.6	1.5	1.03	0.72	1600.06
7	1	0+405	0.0016	0.8	1.5	1.57	1.34	6638.87
8	.	0+423	0.00014	1.5	1.5	2.61	0.56	7948.71
9		2+000	0.0003	0.8	1.25	1.88	0.63	3734.69

			Sp(m/m)	(m)		h max (m)	v(m/s)	Q (l/s)
10	-3 . .	1+340	0.0003	0.8	1.25	2.53	0.75	7519.35
11	-9 . .	1+155	0.0003	1	1.5	0.63	0.34	327.83
12	-15 . .	0+472	0.0002	0.8	1.25	2.57	0.62	6374.25
13	1	1+179	0.00025	0.6	1.5	1.41	0.49	1860.28
14		2+185	0.00043	0.6	1.5	1.42	0.64	2480.94
15		1+500	0.0003	0.6	1.5	1.34	0.52	1806.81
16	-17 . .	0+330	0.0002	0.8	1.25	2.39	0.59	5360.39
17	()	1+260	0.0003	0.6	1.5	1.54	0.56	2513.44

.7 -

				L ()	OK Q (l/s)	A (l/s)	
1	SEP A1,A2	0	850.00	850.00	612.61	1191.66	
2	SEP A3	850.00	1950	1100.00	566.28	592.80	
3	SEP A4	1950	3550	1600.00	823.68	7487.17	
4	SEP A5,A6	3550	3750	200.00	144.14	6850.01	
5	SEP A7,A8	3750	4875	1125	810.81	1979.73	1
6	SEP A9,A10	4875	5830	955	688.29	1272.50	2
7	SEP A11,A12	5830	6825	995	717.12	6085.97	1
8	SEP A13,A14	6825	8214	1389	715.06	5627.34	.
9	SEP A15,A16,A17,A18	8214	10497	2283	1645.40	3497.54	
10	SEP A19,SEPA19-1	10497	11300	803	578.74	7408.17	-3 . .
11	SEP A20, SEP A20-1	11300	12200	900	324.32	334.98	-9 . .
12	SEP A21,A22	12200	13600	1400	859.72	6228.07	-15 . .
13	SEP A23,A24,A25,A26	13600	15900	2300	1184.04	1677.17	1
14	SEP A27	15900	17225	1325	954.95	2240.79	
15	SEP 1- SEP5	0	750	750	560.20	1552.08	
16	SEP B1	0	350	350	252.25	5311.40	-17 . .
17	SEP B2	0	951	951	685.40	1639.00	()

- () - (-17 .)

1,0m

3m

5 m

.8 -

				[m ³ /s]
1		2+749		0.183
2		-		
3		0+254		0.405
4		0+328		0.405
5		1+500		0.201
6		-		0.183
7		2+002	0+248.133	0.183
8		0+131	0+613.758	0.259
9		0+381	0+852.841	0.259
10		0+192	1+652.082	0.444
11		-	1+942.629	-
12		0+981	2+163.933	0.259
13		1+032	2+903.079	3.42
14		0+988	3+325.450	0.273
15		-	3+773.709	-

				[m ³ /s]
16	1	0+834	4+465.902	0.304
17	2	0+800	5+381.599	0.328
18	(	0+370	5+388.114	-
19	)	-	5+764.927	-
20	1	0+405	6+238.967	0.553
21	1	0+238	6+659.060	0.27
22		7+100	6+845.950	12.9
23	1	0+105	6+977.960	0.384
24	.	0+423	7+336.397	2.321
25		0+741	7+874.680	0.265
26	-3 . .	0+650	7+901.204	0.079
27	-5 . .	0+734	8+214.840	0.09
28	-7 . .	0+801	8+498.480	0.079
29		2+000	8+589.905	0.237
30	-11 . .	0+445	-	0.111
31	-13 . .	0+400	-	0.117
32	-15 . .	0+330	-	0.06
33	-17 . .	0+320	-	-
34		1+260	10+497.729	248.8
35	-1 . .	1+390	10+575.190	0.097
36	-3 . .	1+340	10+887.419	0.111
37	-5 -	0+583	11+082.739	0.205
38	-7 . .	0+000	-	0.117
39	-9 . .	1+155	11+818.472	0.071
40	1	0+000	-	0.293
41	1	0+720	-	0.293
42	-13 . .	0+000	-	0.117
43	-13 . .	0+046	-	0.117
44	-13 . .	0+520	-	0.117
45	-15 . .	0+472	-	0.146
46	-17 . .	0+248	13+166.471	0.146
47	K-18 . .	0+000	-	0.068
48	-18	0+090	-	0.068
49	-18 . .	0+410	-	0.068
50	-19 . .	0+030	13+522.567	0.069
51	-19 . .	0+120	-	0.068
52		2+650	13+593.823	0.15
53	-20 . .	0+267	13+977.495	0.04
54		-	14+000 14+425	-
55	1	1+179	14+635	0.183



11000

6/IV,

km 16+337,063,

+80°C.

- 1.
- 2.
- 3.
- 4.
- 5.

. 455

km 16+337,063

400 kV

.96.

()

. 96

()

- 1.
- 2.
- 3.

20kV

20kV

”

20kV

20kV

100%

PVC

Ø125mm.

40m

(

),

3,00 m

1,50-1,80 m

(

)

1,20 m,

10,00m.



11000

6/IV,

3,00 m

35/10kV "

20/0,4kV

20(10)/0,4kV,

-70

20(10)/0,4kV

0,4kV

20/0,4kV, :

- 20(10)/0,4kV km 1+975;
- 20(10)/0,4kV km 6+625;
- 20(10)/0,4kV ;
- 20(10)/0,4kV km 12+750;
- 20(10)/0,4kV km 15+900.

km 5+500;
km 12+750

km 5+500;
km 12+750.

(VMS)

.9 -

		Pj(kW)
1.	_____	56,50
2.	_____ km 5+500	6,85 17,25
3.	_____	30,00 55,00

		Pj(kW)
	-	10,00
	-	17,25
4.	km 12+750	
	-	10,50
	-	55,00
	-	10,00
	-	17,25
5.	-	15,00
	-	30,00

. 10 -

	/	Pj(kW)
1.	VMC x 1 / km 1+000.00	3,00
2.	VMC x 1 / km 2+850.00	3,00
3.	VMC x 1 / km 7+500.00	3,00
4.	VMC x 1 / km 9+000.00	3,00
5.	VMC x 1 / km 11+053.00	3,00
6.	VMC x 1 / km 12+150.00	3,00
7.	VMC x 1 / km 12+450.00	3,00
8.	VMC x 1 / km 13+225.00	3,00
9.	VMC x 1 / km 15+350.00	3,00
10.	VMC x 2 / km 15+450.00	1,50

3.4.5.

- ne
- „TS“
- „VIP“

- „Telenor“.

(GSM/2G/3G/4G/HSPA+Mobile network)
2G

3G

4G/LTE

1.			1+040.00 km - 1+080.00 km
2.			0+590.00 km
3.			1+180.00 km - 1+220.00 km
4.			10+375.00 km
5.			16+350.00 km - 16+400.00 km
6.			16+650.00 km

„VIP mobile“,

4 :

NS2N1001	SM_autoput_Sremska Ra a_Kuzmin 2	
NS2N1002	SM_autoput_Sremska Ra a_Kuzmin 1	
NS2N1003	SM_autoput_Sremska Ra a_Kuzmin 3	
NS2N1004	SM_autoput_Sremska Ra a_Kuzmin 4	

„Telenor“

	:	
	Bosut	

GSM, UMTS LTE

	:	:
1.	2	
2.	2	

- km1+040.00 km1+080.00 - 3.
- km0+590.00 - ,
- km1+180.00 km 1+220.00 - 4.
- km10+375.00 - 2 km.
- km16+350.00 km 16+400.00 -
- km 16+650.00 , km 0+005.00 - km 0+065.00 400 kV.

3.4.6.

/ 4 bar -
 | -19. -
 500m. a

3.5.

3.6.

(3)

3893/2, 3894/1 3894/2, . . . ; 3892, 3893/1,

1747, 1746, 1745 1744 - , 1752, 1743/1 1743/1 - 1751, 1750, 1749, 1748,

1760, 1759, 1758, 1757, 1756 1755,

90

3.7.

50m

50m

(200m)

()

5m,

8m,

()

),

(

60cm

() 0,5cm.

(0,5m), (1,5m), (2m. 1.) 50m : / , ; 50m / ; () ; () ; (1m;) 0,5m. () . (500m) () .



1.

	n -	/	12-14 m,	CI-CH
CI	e	(ap),	3-5 m,	15-17m,
	e	(am),	4-7 m, CI-CH	21-24 m,
	e	(ap),	21-24m	
	GM-GW	25m.		

3.9.

(,	(,	,	10/19),	,	2/19),
		/			
			10x10m		2,25m
0,5m			250m		

3.10.

3.11.

MSK-1964

500

(8°)

0.1-0.15

S -1964,

20/15)

(,,

“,

111/09

. 54
64/10, 24/11, 121/12, 42/13, 50/13, 98/13,132/14,145/14

(,,

”,

72/09, 81/09,
2.

(,,

“,

35/2015 114/15)

. 16.

3.12.

20% (1:5).

()

(

45cm

)

4.

4.1. ,

4.1.1.

$V_r = 130 \text{ km/h}$:

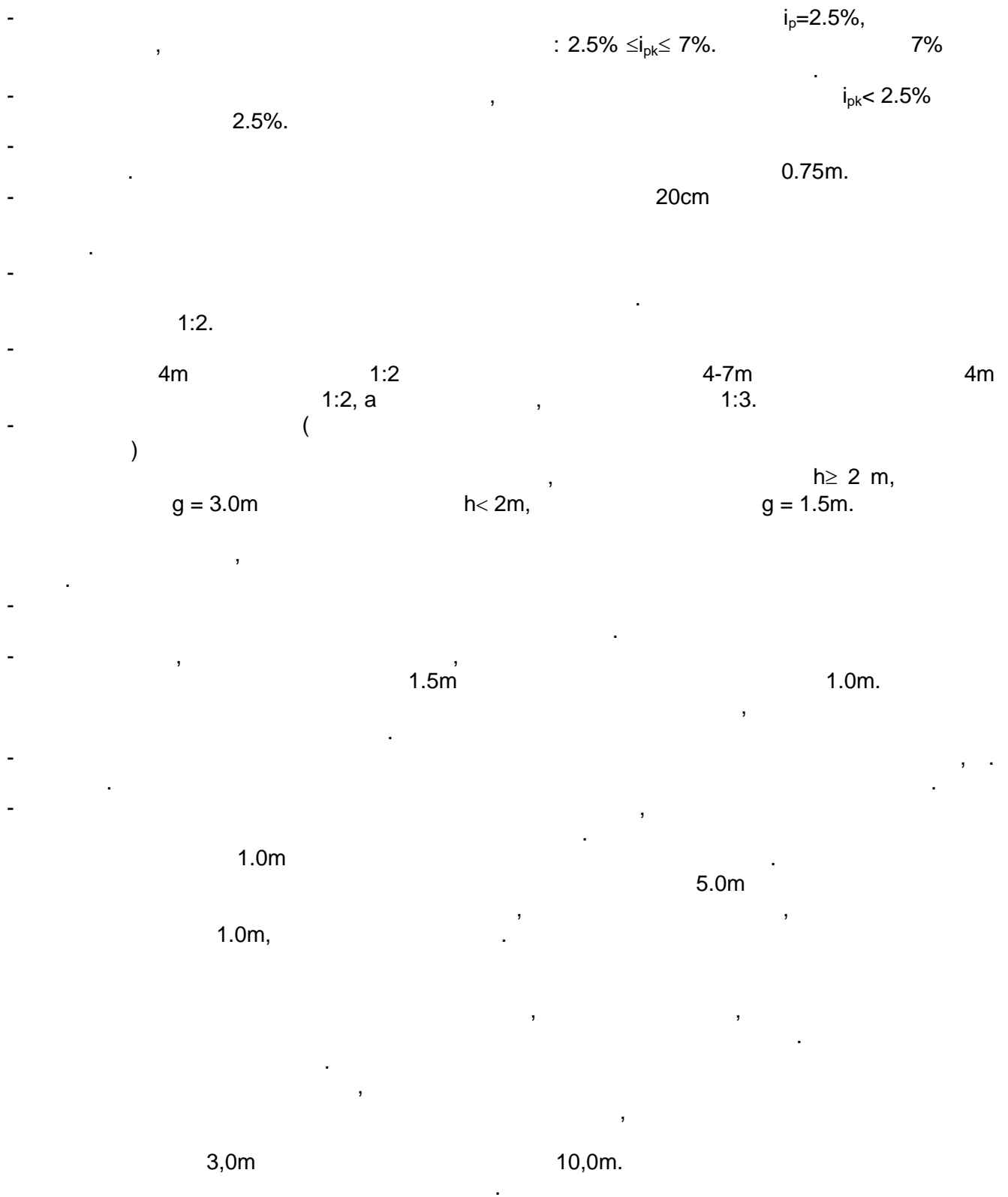
- : max L = 2400 m
- : min R = 800 m
- ipk : min R' = 5 000 m
- : min L = 115 m
- : min P_z = 300 m
- : max b = 14,1 m
- : i_n = 1%
- : max i_n = 4%
- : min i_n = 0% -
- : min i_n = 0.5% -
- : max i_{rv} = 0,75%
- : min R_v = 11 250 m
- : min R_v = 22 500 m
- : t_v = 3.75 + 3.75m
- : t_z = 2.50 m
- : t_i = 1.00 0,50 m
- : b = 1.50 m
- : min i_p = 2,5%
- : max i_{pk} = 7%

(Vr=130 km/h)

- 4 x 3.75 m 15.00 m
- 2 x 2.50 m 5.00 m
- 2 x (1.00 m + 0.50 m) 3.00 m
- 2 x 1.50 m 3.00 m
- 4.00 m 4.00 m
- : **30.00 m**

(,)

0.3m , ()



.11 -

1	0+588,47	,	h=2,1m	168,6+130,4=299 m		
2	0+513,09	,	h=2,1m	92,2+168,6 =260,8 m		
3	1+015,58	,	50cm	6m	6m	6m
4	0+720,18 0+940,096	,	60cm	8m	8m	8m
5	4+876,64	,	h=1,8m	88+160		
6	0+234,32	,	60cm	8m	8m	8m
7	0+837,303	,	h=1,8m	88+160		

4
70 3
27+3x38,2+27 + 27 +2x38,2 + 27m.
168,6+130,4=299m.
2,1m.
3
70.
27+38,2+27 + 27 +3x38,2 + 27m.
92,2+168,6=260,8m.
2,1m.
3
, 50cm, 60cm 6m, 8m 10m.
70cm.
8m, 60cm.
26+36+26 + 26+3x36+26m. 88+160=248m.

- 1,8m.
 - km 4+876,64
 - 26+36+26 + 26+3x36+26m.
 - 88+160=248m.
 - 1,8m.

” ”
 () ()
 ()
 ()
 :

- 2 (1 , 1) , 1
 - 3 (1 () , 1) , 1
),

- (+) , () ,
 - / ((+) ,) ,
 - () ,

- :
 - 2 (1 , 1) , 1
 - 4 (1 () , 1) , 1
),

- (+) , () ,
 - / ((+) ,) ,
 - (+) ,
 - () .

()

(, , ,).

().

. 12 -

1	1+652,082	, 70cm	10m	10m	10,7
2	1+946,59	, 90cm-150cm	18m	18,08m	19,58
3	2+164,585	, 70cm	10m	10,72m	11,42
4	2+904,18	, 95cm	14m	15,41m	16,45
5	3+324,76	, 80cm	12m	14,2m	15,5
6	3+773,02	, 70cm	10m	11,18m	11,96
7	4+479,18	, 50cm	6m	6m	6
8	5+764,72		12m	13,81m	14,74
9	6+281,17	, 70cm	10m	10m	10,7
10	6+659,225	, 70cm	10m	10,07m	10,78
11	6+829,89		20m	24,57m	26,59
12	7+336,51	, 95cm	14m	15,64m	16,7
13	7+874,65	, 80cm	12m	16,4m	17,48
14	8+214,86	, 80cm	12m	12,18m	12,99
15	8+498,48	, 80cm	12m	12m	12,81
16	8+590,45	, 70cm	10m	11,51m	12,32
17	9+827,76	, 70cm	10m	10m	10,7
18	10+446,08d 10+505,29l	0,25cm, 2m + h=2,25	3x41=123m		
19	10+886,81	, 95cm	14m	14,145m	15,11
20	11+011,5	, 40cm	5m	5m	5,50
21	11+080,67	, 95cm	14m	14,66m	15,66
22	11+819,205	, 70cm	10m	10,26m	10,98
23	13+167,70	, 80cm	12m	14,7m	15,68
24	13+668,81	, 90cm	13+18+13=44m		
25	14+526.11	, 60cm	8m	8m	8m
26	0+218,315	, h=1m	20m		

:



11000

6/IV,

-
-
- 14m, 18m, 50cm, 70cm, 80cm 95cm. 6, 10, 12
- 20m
- 100 cm 165 cm.
- 40 m, 2,0m 41 m,
- 10m. 25cm.
-
- 13m+18m+13m.
- 90 cm. km 16+725.
- 20km/h.
- 1m. 21m.
- " " 0,5m-1m
- 36+45+36 m.
- 220 cm.
- 10m.
- 1.5 km
- 120cm
- a km 4+876,64 e 2 3,00m,
- 1,00m;
- km 10+362 ,
- " " , 2 3,25m , 1,00m.
- 2,00km,
- ;
- ;

2 3,00m,

1,00m.

. 13-

Објекат				
Надвожњак	1	4+876,64	h=1,8m	26+36+26+26+3 36+26
Надвожњак	2	10+362	h=1,52m	24,2+4 25+24,2+24,2+2 25+24,2

-1

(15-30

)
 - 1,5-5ha;
 - 10-20 km,
 - ;
 - : 10 , 2)4 ,

4.1.2.

a
 2 (2+2) , 4,5 m,
 :
 - - ;
 - - , - ;
 - ;
 , (20
) (10) ,)
 (,)
 , a
 :
 - , - ;
 - : , ()
 () , 100
 (,)

()

(+1.) +0

4.1.3.

4.1.3.1.

5m

10m

3 m

1.

(.2).

2.

0,6 m 1.5m,

- 2, 3, 4 5 - $Q_{uk} = 0,452 \text{ m}^3/\text{s}$
- $Q = 0,138 \text{ m}^3/\text{s}$
- $Q = 0,405 \text{ m}^3/\text{s}$
- $1,34 \text{ m}^3/\text{s}$
- e $Q_{uk} = 0,336 \text{ m}^3/\text{s}$

0,6 m 1,5 m.
 $l = 0.30 \text{ ‰}$, $n = 0,025 \text{ m}^{-1/3}/\text{s}$.

1:1,5.

M

	1.34	cms
	0.959	m
	2.818	m ²
	4.958	m
	0.568	m
	0.476	m/s
	4.377	m
	0.189	
	0.379	m
	1.708	m/s
	0.01026	m/m
	2.638	m
	2.82	N/m ²
	1.672	N/m ²

Hydraulic Toolbox.

Shezy-

Manning-

$$Q = \frac{1}{n} \cdot A \cdot R^{\frac{2}{3}} \cdot \sqrt{I_d} \quad [m^3/s]$$

:

Q (m³/s) -

(m²) -

R = $\frac{A}{O}$ (m) -

I_d (-) -

0,959 m.

1,5 2,2 m,

3.

4.

km 0+248.113.

5.

6.

1 m (

0.6 m

(A3).

7.

- 8. 1 - 1

- 9. 1 - km 4+893,05 1.

- 10.

- 11. 1 1,

- 12. km 9+600 (17 18). 0

- 13. -17 -17 1.

- 14. km 10+500. 10 m.

- 15. -9 km 11+820, e 20 A20-1, j -9.

- 16. -9 (0.6m 1 m), -19

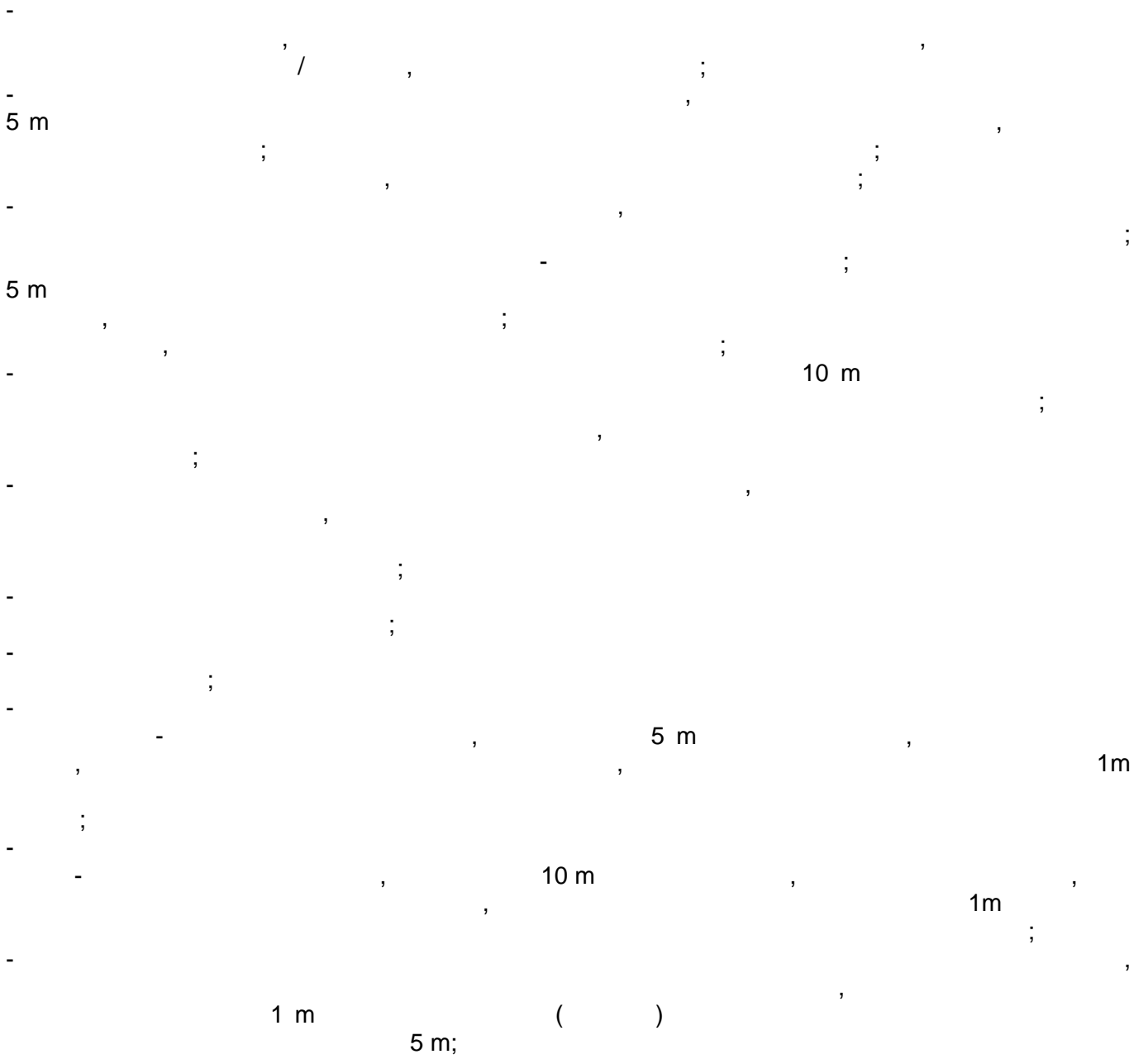
- 17. km 13+975 km 14+425

18.

km15+525

(25 26).

19.



20(10)kV 400kV

65/1988 " " 18/1992 . 103,104,105,106,107,108).
 1 kV 400 kV (" " ,
 400kV), -5°C +40°C (+80°C 110kV
 +40°C
 1 kV 110 kV

- 1) 0,75m - 220 kV;
- 2) 2,00m - 400 kV.

. 14 -

1 kV 110 kV

	(m)	(m)	
	4,0	3,0	
	5,0	4,0	
	6,0	5,0	
		3,0	
	7,0	: 10,0 (: 5,0)	
	7,0	: 20,0 (: 10,0)	;
	7,0	: 40,0 (: 10,0)	;
		5,0	
		: 3,0	
	2,0	5,0	;
	2,5	1,0	
	2,5	2,0	;
		: 10,0 110kV (: 1,0 1-35 kV) 15,0 220 kV; 25,0 400 kV	
	5,5 400kV; 4,0 220kV; 3,0 35kV 110kV	:5,0 : 2,0	;

	(m)	(m)	
		3,0 : 0,7 U _u (cm) . 20 (cm)	
	8,0	8,0 : +3,0	
U _u - (kV);			

20 kV 5m 20 kV. 3m

5m.

(" , . 6/1992):

() +40°C -5°C

() +40°C

. 15 - 1 kV

	(m)	(m)
	4,0	
	5,0	
	1,25	
	: 1,0 :	1,0
	0,5 1,0	
	6,0	2,0
	1,0	0,5
	>45kV: >45kV: 1.	
	0,5	1,5



11000

6/IV,

	(m)	(m)
		: 3,0(.10,0) + : 1,0
		:0,8(. :0,3)
	6,0	
	:	
	: 2,5	: 2,5 +3,0
	:	(. 10,0)

35/10kV 20(10)/0,4 kV

50m².

20(10)/0,4 kV

1 x

630(1000).

3m,

5t.

1m.

" (" . " . 74/90).

10 kV

() ; 2xPVC Ø125
;
- K ;
;
- ;
- 0,8m 0,5m 0,5m ;
- 1kV 20(10)kV;
- ;
- 0,4m ;
- 0,3m, 0,5m .
- ,
- ,
- .
- “ ” “ ” . 11/96).
- .
- 0,2m
- 0,07m. 1 kV ,
- ()
- 1,5m.
M 1,50m.
- ,
- 1,5 .
- (, 2xPVC Ø125)
- .

I II

e :

-) (3,00m ,

- 1,50m,

- ()

1,20m.

I II

e :

- 3,00 m

-), (

- , ,

- (SRPS N.C0.101) 0,5m 1kV 20(10)kV. 0,5m.

- :

- : 30°, 90°;

- : 45°.

- , ,

- , 0,3m.

- 0,3m.

- , 0,2m.

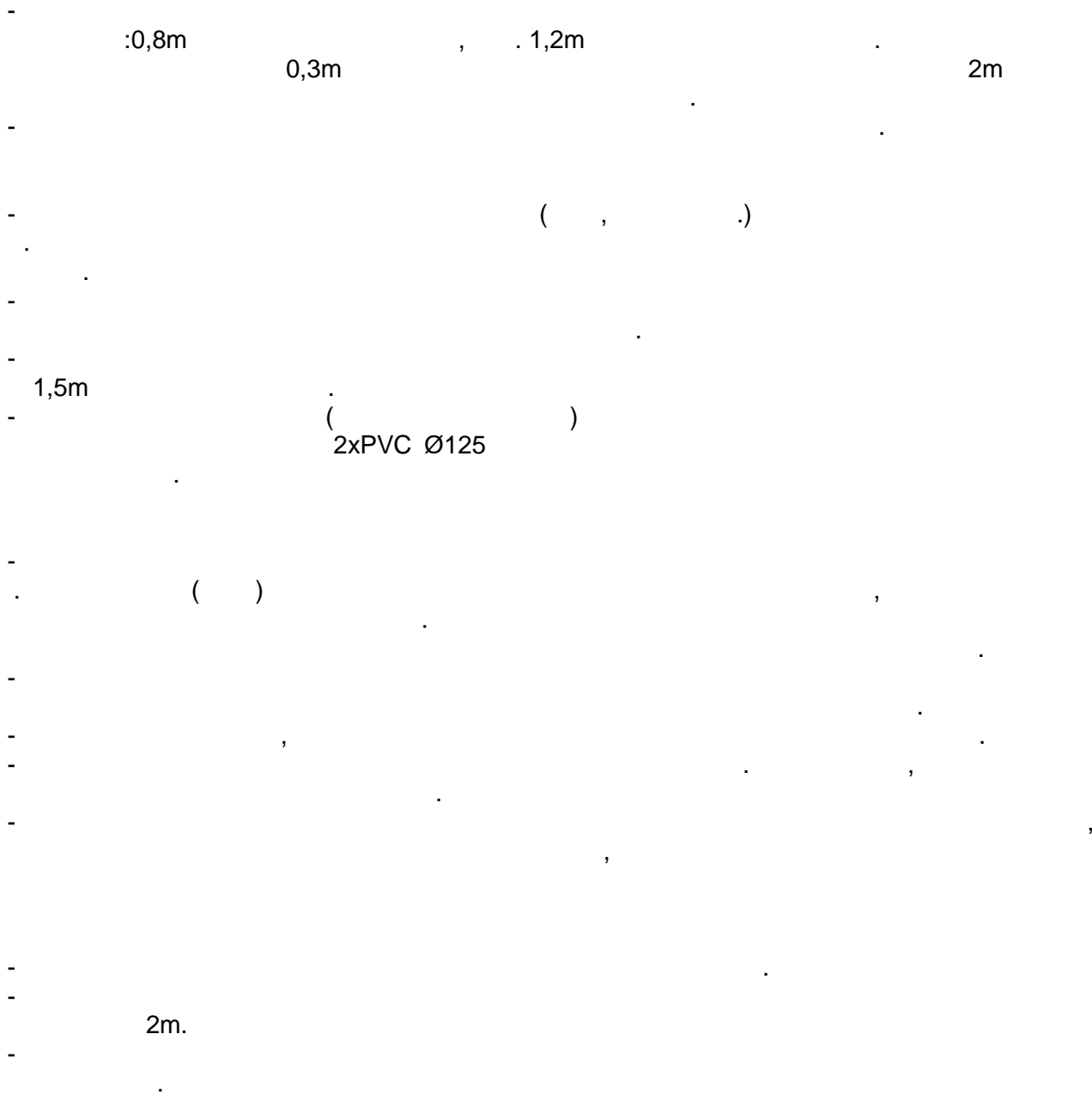
- 35kV

- 0,4m 1kV 20kV.

- , 0,3m 1kV 20kV.

- , ()

-



4.1.3.4.

()

36

()

Wi Fi

2m

9.2m x 9.2

m.

()

1 2

Ø50mm

2

Ø110mm).

2 Ø110mm.

(

)

50 mm (110 mm).

Ø50mm

60x60x100cm,

120x60x100cm.

Ø110mm.

Ø110mm

(1

Ø50mm)



10-15 m² 2,8 m.

2,80 m,

FTTB (*Fiber the Building*) FTT (*Fiber the ffice*)

LSZH (Low Smoke Zero Halogen).

4.1.3.5.

- 1)
- 2)
- 3)
- 4)

bar < 16-16 bar 4 bar < 10 bar 10

	(m)	
	0,20	0,60
	0,20	0,40
	0,30	0,50
	0,50	1,00
	0,30	0,60
	0,30	0,50
	0,20	0,60

	(m)
*	5,00
	3,00
3 m3	6,00
3 m3 100 m3	15,00
100 m3	5,00
10 m3	10,00
60 m3	15,00
60 m3	0,20 0,30
	1,50
*	

. 17 -
4bar

	(m)
	0,20 0,40
	0,20 0,40
	0,30 0,50
	0,50 1,00
	0,20 0,40
	0,20 0,40
	0,20 0,60
*	5,00
	3,00
3 3	6,00
3 3 100 m3	15,00

		(m)
100 m ³		
	10 m ³	- 5,00
60 m ³	10 m ³	- 10,00
	60 m ³	- 15,00
		0,20 0,30
		- 1,50
*		

2 m

0,2 m

. 18 -

	(m)	(m)
1 V U	1	1
1 V < U 20 V	2	2
20 V < U 35 V	5	10
35 V < U	10	15

. 19-

m ³ /h	4 bar	4 bar < 10 bar	10 bar < 16 bar
160	()	3 m ()	5 m ()
161 1500	3 m ()	5 m ()	8 m

)	
1501 6000	5 m	8 m	10 m
6001 25000	8 m	10 m	12 m
25000	10 m	12 m	15 m
	1 m	2 m	3 m

0,5h

3 m

160 m³/h

5 m

1 m

. 20 -

	bar	4 bar < 10 bar	10 bar < 16 bar
	10 m	15 m	15 m
	3 m	5 m	8 m
	3 m	5 m	8 m
	8 m	8 m	8 m
	15 m	15 m	15 m
	3 m	3 m	3 m
	3 m	5 m	8 m
	10 m	12 m	15 m
	10 m	12 m	15 m
	10 m	12 m	15 m
	0 bar < 16 bar:		
	1 V U		+ 3 m*
	1 V < U 110 V		+ 3 m**
	110 V < U 220 V		+ 3,75 m**

		400 V < U	m** + 5
*	10 m.		
**	15 m.	8 m	

16 bar

- 1) 4bar - 1 m ;
- 2) 4 bar < 10 bar - 2 m ;
- 3) 4 < 10 - 3 m ;
- 4) 10 < 16 - 3 m ;

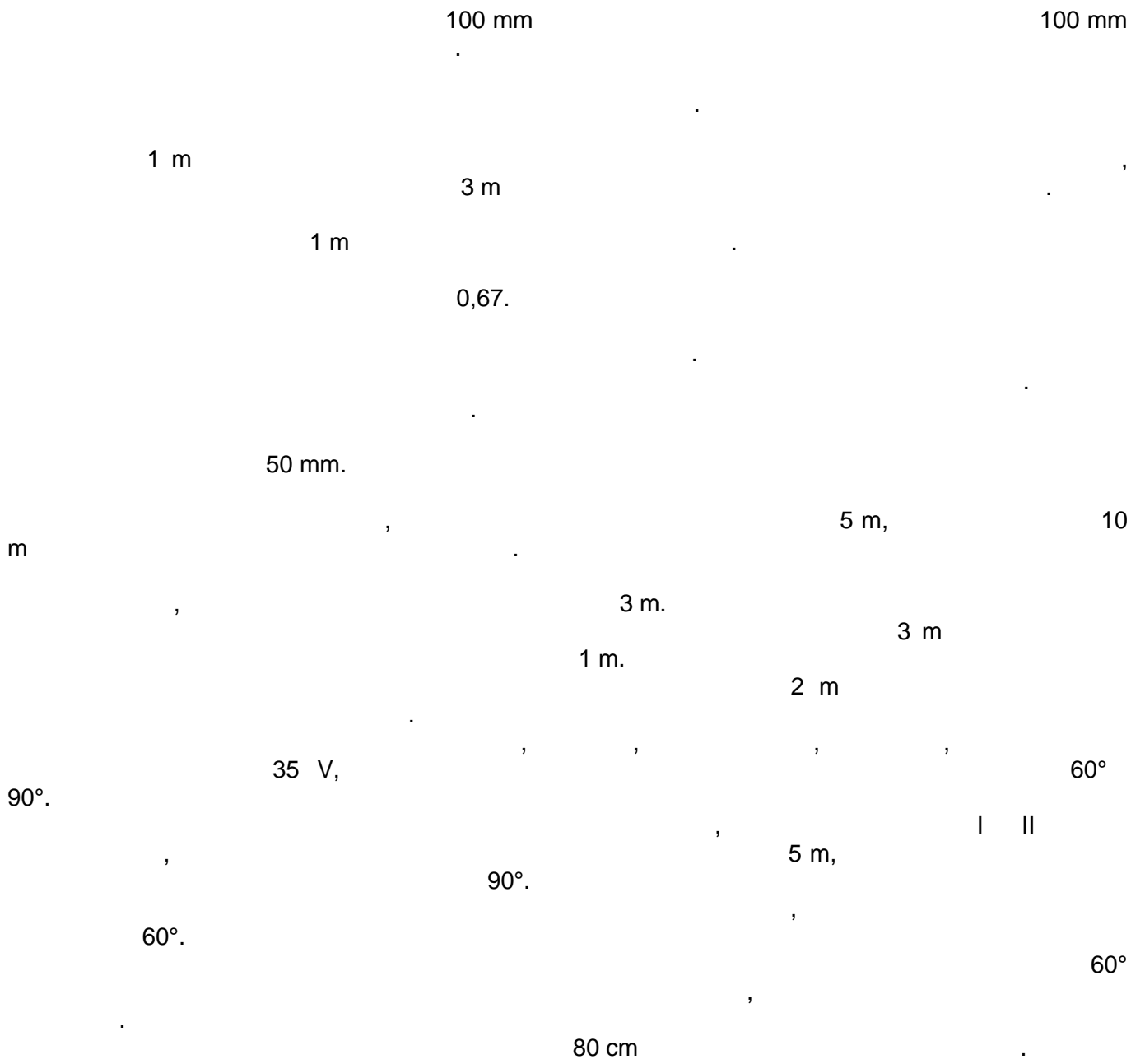
0,5 m

m. 1 m, , 0,5

m , , 10

50 m

15 cm



. 21 -

	(cm)	
		*
	100	60
	100	50
	135	135
	150	150
	100	100

	(cm)	
	150	100
*		

50 cm.

5.

5.1.

989 . . . 764, 982/10, 935, 936, 718/1, 718/2, 722/1, 722/3, 982/2, 982/8, 736/3
 - " (")
 " , .351-01-01298/2019-11 " 16.05.2019.).

“ , .6 " 24.04.2017.) , " (, -

“ ()

) ()

. 7 7 ” “ 1:2500.

“ . 60. 61. , 72/09, 81/09, 64/10 - , 24/11, 121/12, 42/13 -
 („ 50/13 - , 98/13 - , 132/14, 145/14, 83/18 31/19).

:

01. -

02. 02 . 1:2500

03. 03 . 1:2500

04. 04 . -

1:2500

04.1. -

05. 05 . 1:2500

06. 06 . - 1:2500

07. 07 . -

1:2500

07.1. -

(, 0 , (, 10/19). , . 2/19
" . 135/04 88/10)

" , . 10/19. 0

(: . .) , . . .

- () .

) : , - (

- , ;
- ;
- .

1.

1.1.

: ,

1.2.

I -

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

QMS

121/12, 42/13 – („ . 72/09, 81/09 „, 64/10 – , 24/11,
31/19 37/19- .) , 50/13 – , 98/13 – , 132/14, 145/14, 83/18,

- 8.
- 9.
- 10.
- 11.

II -

1.

- 1.1.
- 1.2.
- 1.3.
- 1.3.1.
- 1.4.
- 1.5.

()

2.
3.

- 3.1.
- 3.2.
- 3.2.1.
- 3.2.2.
- 3.3.
- 3.4.
- 3.4.1.
- 3.4.2.
- 3.4.3.

3.4.3.1.

3.4.3.2.

3.4.4.

3.4.5.

3.4.6.

3.5.

3.6.

3.7.

3.8. -

3.9.

3.10.

3.11.

3.12. ,

4.

4.1. ,

4.1.1.

4.1.2.

4.1.3.

4.1.3.1.

4.1.3.2.

4.1.3.3.

4.1.3.4.

4.1.3.5.

5.

5.1.

. 1:

. 2:

. 3:

. 4:

. 5:

. 6:

. 7:

. 8:

. 9: ,

. 10:

. 11: ,

. 12:

. 13:

. 14:

. 15: 1 kV 110 kV

. 16: 1 kV

. 17:

10 bar <

16 bar

4 bar <

10 bar

,



. 18:

4bar

. 19:

. 20:

. 21:

. 22:

()

. 1:

. 2:

. 3:

. 4:

. 5:

. 6:

()

III -

01.		-	
02.	02		1:2500
03.	03		1:2500
04.	04	-	1:2500
05.	05		1:2500
06.	06	-	1:2500
07.	07		- 1:2500
07.1.		-	

IV -

1.

2.

3.

4.

5.

2.

2.1.

- („ „ 72/09, 81/09, 64/10, 24/11, 121/12, 42/13, 50/13, 98/13, 132/14, 145/14, 83/18, 31/19 37/19-);
 - („ „ 41/18 95/18);
 - („ „ 135/04, 36/09, 36/09- , 72/09- , 43/11- , 14/16 , 76/18 95/18-);
 - („ „ 135/04 88/10);



6/IV, 11000

). X

(
IV, V, VII VIII

X

X,

X;

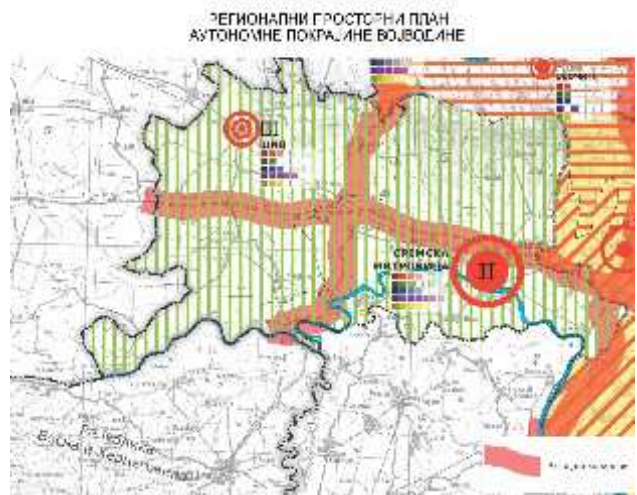
()

.2.3-1.

	()	-	,

(,, ”, 22/11)

I II



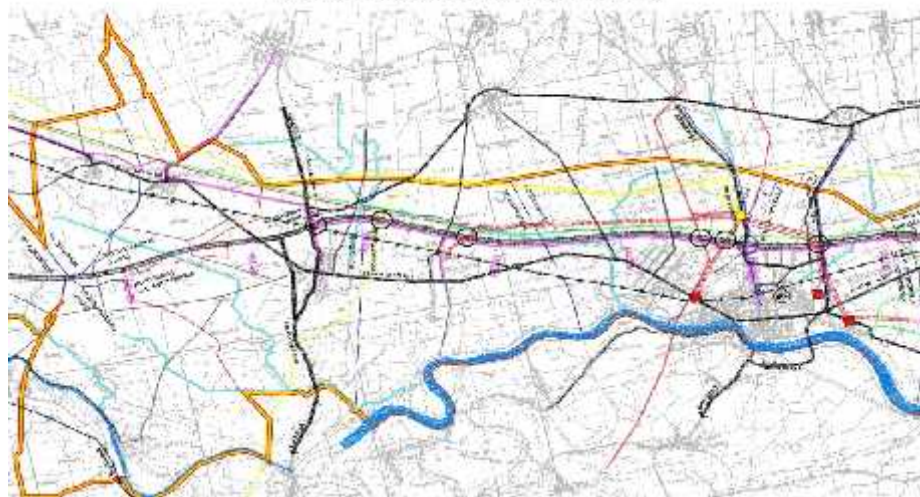
” “ -70 ” ” km 491+000
 ” “ ” “ ’ ’
 - - -70
 :

	491+151	
--	---------	--

” “ (490+600) . 103
 . 106 . 18
 . 18 . 103, . 18
 km 492+672.
 :
 ” “ ” “ ” “ ” “ ”
 - - -
 - ()

E-70
 ” “ (km 491+151) -70
 II . 103 I . 18 (-
) II . 103.1.

Измене и допуне Просторног плана подручја инфраструктурног коридора E-70
 граница Хрватске - Београд (Добановци)



(„ „, 9/09.)

ПРОСТОРНИ ПЛАН ТЕРИТОРИЈЕ ГРАДА СРЕМСКА МИТРОВИЦА

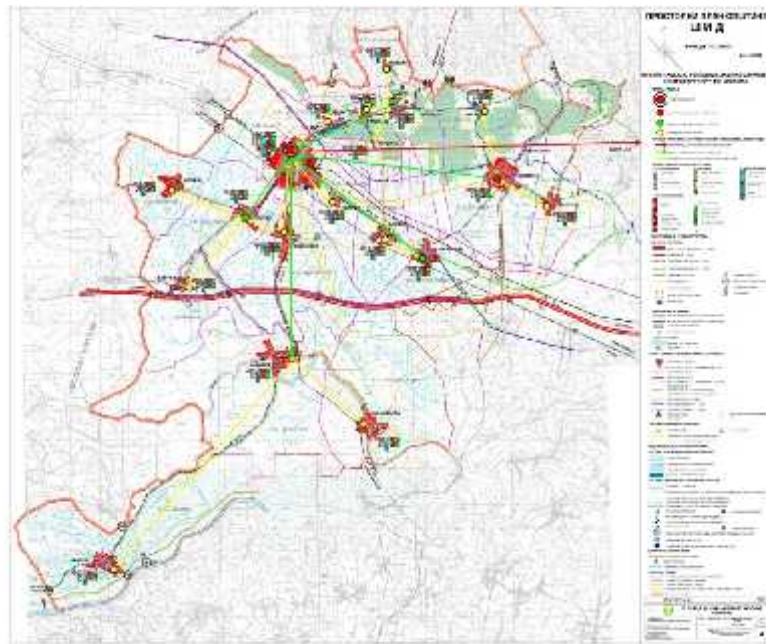


X.

X.

(„ „, 1/11.)

-70 (| .1)



3.

3.1.

3.1.1.

77 80 mnv.

3.1.2.

(n)

(t₁)

(n)

(al) – 1.

(t₁)

79 82 m.

2 4 m,

(t₁)

m. (). Corbicula fluminalis, 10 20
4 5 m
80 100 m. e

() () ()

54%

46%

(al)

(ap)

(b)

(lb)

(am)

(ap)

CaCO₃.

() 1-5 m.)

()

().

()

(b)

: *Planorbis planorbis*, *Lymnea stagnalis*, *Planorbis corneus*

(lb)

Fe

30 m.

(am)

e

5-10 m.

3.1.3.

5-7 m,

71°C.

3.1.4.

(
),
500 (8°)
S -1964
0.1 - 0.15 g. S -1964,
a = 146 cm/sec².
K_S = 0.036. II

3.2.

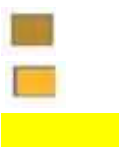
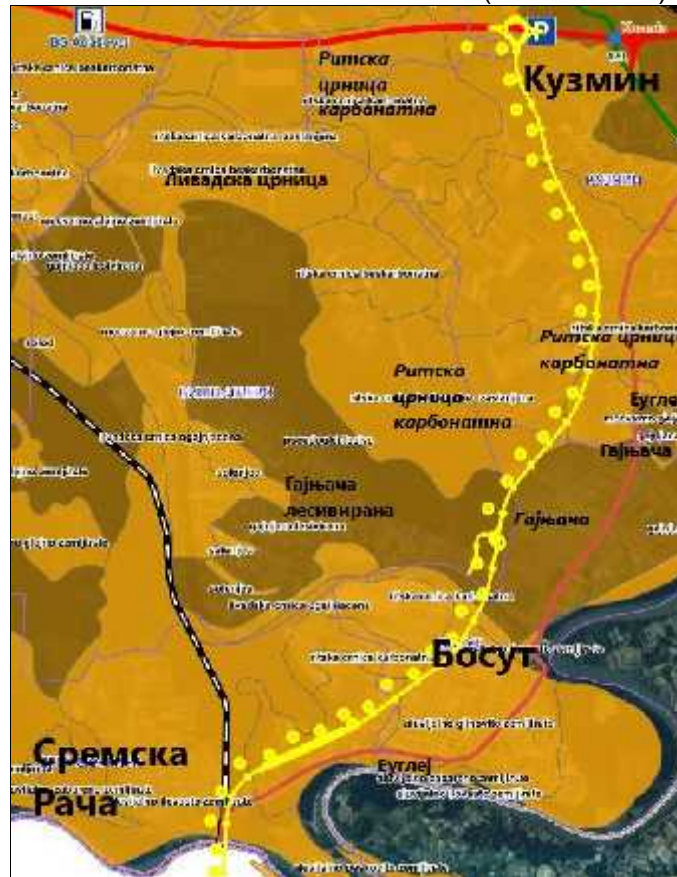
4780 ha, 6560 ha, 10290 ha, 35830 ha,
3380 ha, 940 ha, 6420 ha, 5550 ha
220 ha (3.2-1.).

3.2-1.

	h	%
1.	3360	4,41
2.	3380	4,43
3.	950	1,24
4.	7350	9,65
5.	890	1,16
6.	4990	6,55
7.	10970	14,50
8.	4800	6,30
9.	2080	2,73
10.	3460	4,54
11.	260	0,34
12.	310	0,40
13.	2390	3,13
14.	1269	1,65
15.	2310	3,03
16.	680	0,89
17.	1690	2,22

..		h	%
18.		4470	5,87
19.		310	0,41
20.		4310	5,66
21.		600	0,88
22.		1650	2,16
23.		940	1,23
24.		1380	1,83
25.		2420	3,16
26.		690	0,91
27.		3960	5,16
28.		1590	2,02
29.		2250	2,96
31.		220	0,28
		76159	100,00

(3.2-1.)



3.2-1.

: <https://a3.geosrbija.rs/>

1. -
 - a. - -
 - b. - - -
2. -
 - a. - -
 - b. - -

30-50 cm.

80 cm

()

()

(),

(),

()

()

30

1-2 m.

200 cm),

(100-150-200

3.3.

8,02 m.

" (3.3-1).



3.3-1.

3.4.

www.meteoblue.com.

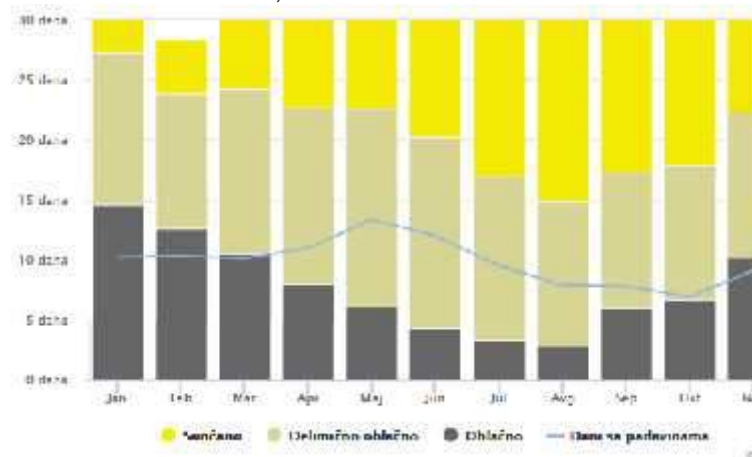
3.4-1



3.4-1

" (")
, ")
" ()
()
)
30

3.4-2

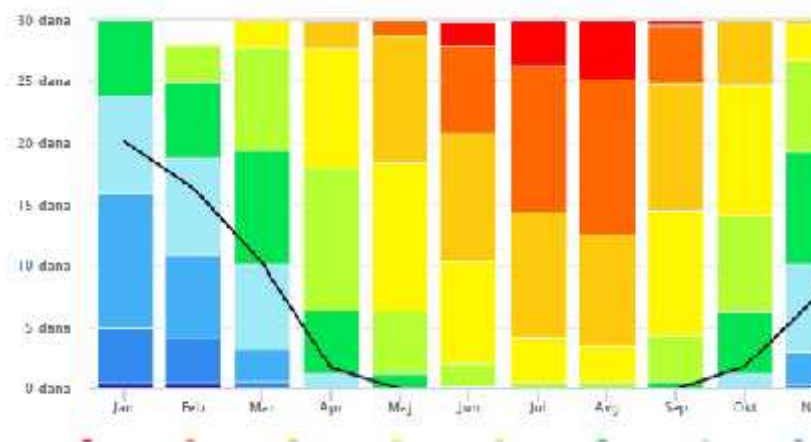


3.4-2

3.4-2

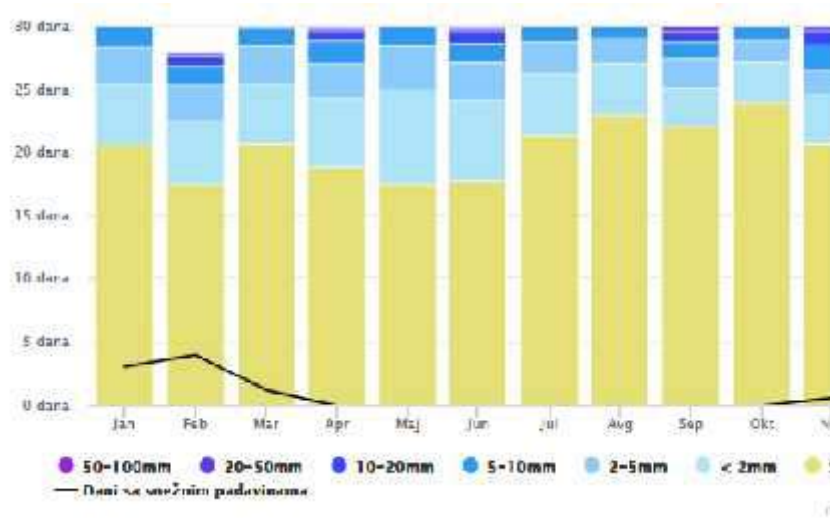
20% 80% 20-80%

3.4-3



3.4-3

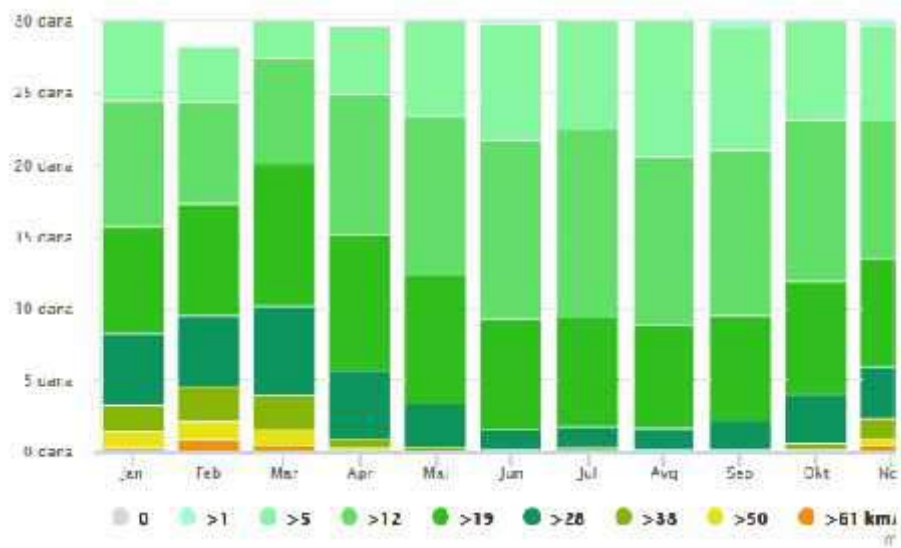
3.4-4.



3.4-4.

(3.2-4)

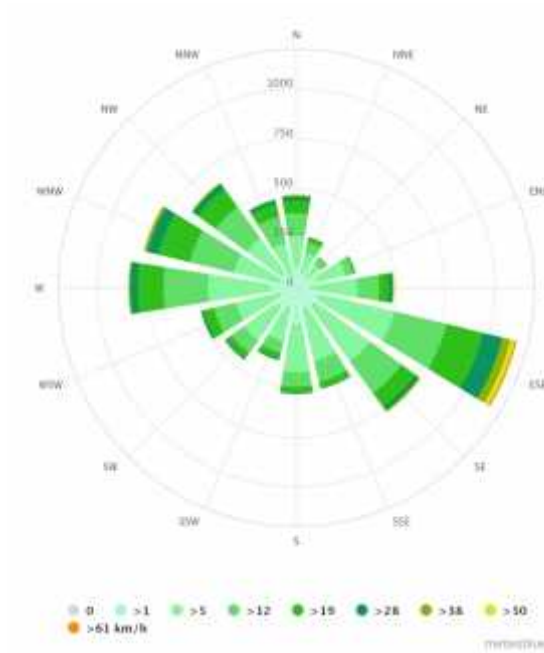
3.4-5



3.4-5

(3.4-5)

3.4-6



3.4- 6

3.5.
3.5.1.

(the CORINE Land Cover - CLC)
(Non-irrigated arable land)

CLC
(Transitional woodland/shrub)

"	472.645,90 m ³ .	2012,58 ha	
"	104-322 00008/209-01	05.08.2009	
"	m ³ .	2215,67 ha	771.527,00
"	104-322 288/2017-06	09.03.2018	
"	179.310,80 m ³ .	1286,85 ha	
"	05.08.2009		104-322-00007/2009-01

1. : - „ „.
2. :
 - 2.1 : 10, : " „, : :
 - 2.2 : 12, : " „, :
3. :
 - 3.1 ((" .) „ .102/2010).
 - 3.2 ((" -).

(Bátori et al., 2016; Gallé et al., 1995; Naiman et al., 1993),
(Hanski, 2015)

, 2018.)

()

(" . " .102/2010).

(, , .)

/

32/16, 98/16).

(„ . “ . 5/10, 47/11,

3.5.2.

A

1. ” “ _
2. ” “ _
3. ” “ ” “ _

30-

3.6.

...
 20 2011.
 1948-2011. 21
 1948-2011 1971-2011.
 ()

3.6-1

(2002-2011 .)

3.6-1

			2002	2011	2002	2011
1.			3391	2982	1050	948
2.			1139	971	362	311
3.			773	624	286	240
		:	5303	4577	1698	1499

(2002-2011) 13,7%.
 9 (2002-2011)

11,7%.

3.7.

3.7.1.

(,)

(:03-426/2 13.03.2019.)

- 1. -"
- 2. "
- 2.1. : 10, :"
- 2.2. : 12, :"
- 3. (" . 5/10 47/11).
 • 3.1. ()
 (" . 102/10)
 • 3.2. ()

3.7.2.

. 84-07/19-3

26.02.2019.

(" ") " : , 3 km
 " ") " ; 5,5 km
 " " ; 5250 m
 " " ;

3.8.

.3.8-1. -

	() (m ²)	()	() (m ²)
(m ² /ha)	241031 m ² (~24,03 ha)	() (m ² /ha)	1947103 m ² (~194,71 ha)
(m ² /ha)	252559 m ² (~25,25 ha)	() (m ² /ha)	270 m ² (~0,03 ha)
(m ² /ha)	109263 m ² (~10,92 ha)	() (m ² /ha)	71192 m ² (~7,11 ha)
(m ² /ha)	1771343 m ² (~177,13 ha)	() (m ² /ha)	158435 m ² (~15,84 ha)
		() (m ² /ha)	197126 m ² (~19,71 ha)
	2374196 m ² (~237,41 ha)		2374126 m ² (~237,41 ha)

je ~237,41 ha

3.9.

3.9.1.

I 3 (70),

~17 km.



6/IV, 11000

km 12+750,00

km 5+500

P-1.

4 m 2,50 m, 3,75 m
30,00 m. 2 (1,0 m +0,5 m),
1,50 m.

Vr = 130 km/h.

()

1:2

3.0

m

1:3

1:1.2

123/2007, 101/2011 93/2012),

," . 101/2005,

80-90m;

40,0 m;

40,0 m

(2)

:

|

3 (70)

()

"

„ “ km 10+362.

.3.9-1.

	0+588,47	0+435,15	0+741,795	70, 4 3 , ,
	0+513,09	0+379,175	0+647,005	70 3 , E
	1+015,58	1+012,33	1+018,83	
	0+720,18 0+940,096	0+755,53 0+935,79	0+764,12 0+944,41	
	4+876,64			-
	0+234,32			
	0+837,303	0+712,1	0+962,50	-

1 - - / .

” “ ” “ ,
()

.3.9-2.

1	1+652,082	1+646,732	1+657,432	
2	1+946,59	1+936,803	1+956,385	
3	2+164,585	2+159,225	2+169,946	
4	2+904,18	2+895,95	2++912,41	
5	3+324,76	3+317,18	3+332,33	
6	3+773,02	3+767,028	3+778,995	
7	4+479,18	4+475,93	4+475,93	1
8	5+764,72	5+575,35	5+772,09	
9	6+281,17	6+275,82	5+286,52	1
10	6+659,225	6+653,835	6+664,614	1

11	6+829,89	6+846,56	6+843,16	()
12	7+336,51	7+328,16	7+344,86	
13	7+874,65	7+865,91	7+883,40	
14	8+214,86	8+208,36	8+221,36	-5
15	8+498,48	8+492,07	8+504,88	-7
16	8+590,45	8+584,29	8+596,635	
17	9+827,76	9+822,41	8+833,11	
18	10+446,08d 10+505,29l	10+434,58d 10+443,78l	10+557,58d 10+566,79l	
19	10+886,81	10+879,26	10+894,37	-3
20	11+080,67	11+072,84	11+088,50	-5
21	11+819,205	11+813,715	11+824,70	-9
22	13+167,70	13+159,86	13+175,54	-17
23	13+668,81	13+646,81	13+690,81	+
24	14+526.11	14+521.81	14+530.41	
25	0+218,315			

- :
- km 4+893,05

19;

.736/3 765/2.

3.9.2.

km 15+000

1,2 km

() ()

3.10.

3.10.1.

3.10.1.1.

1:2

1:1.75

3.0 m

1:2

(EU EN 858)

13.06.2019.

.II-370/12-19.

.II-370/12-19

3,0 m

5,0 m

/

km 9+725 – km 10+425

" "

.1763

-17

I (km 15+525)

(km 15+900),

(km 9+600),

-17

" " je

()

- ()

3.10-

1.

.3.10-1.

			h (m)	O	B2	A(m ²)	n	v(m/s)	Q (l/s)
1		2+749	0.50	2.40	2.1	0.68	0.015	0.45	305.18
2		0+254	0.50	2.40	2.1	0.68	0.015	1.00	674.17
3		0+328	0.50	2.40	2.1	0.68	0.015	1.00	674.17
4		1+500	0.56	2.62	2.28	0.81	0.015	0.53	424.56
5		2+002	0.50	2.40	2.1	0.68	0.015	0.45	305.18
6		0+131	0.50	2.40	2.1	0.68	0.015	0.64	431.59
7		0+381	0.50	2.40	2.1	0.68	0.015	0.64	431.59
8		0+192	0.50	2.80	2.5	0.88	0.015	0.85	740.04
9		0+981	0.50	2.40	2.1	0.68	0.015	0.64	431.59
10		1+032	1.46	6.26	5.38	4.66	0.015	1.22	5698.00
11		0+988	0.50	2.60	2.3	0.78	0.015	0.59	454.96
12	1	0+834	0.50	2.40	2.1	0.68	0.015	0.75	507.01
13	2	0+800	0.50	2.40	2.1	0.68	0.015	0.81	545.92
14	()	0+370	0.87	3.74	3.21	1.66	0.015	0.67	1112.96
15	1	0+405	0.50	2.60	2.3	0.78	0.015	1.19	921.50
16	1	0+238	0.50	2.80	2.5	0.88	0.015	0.51	449.19
17		7+100	2.18	14.86	13.54	22.39	0.015	0.96	21488.31
18	1	0+105	0.50	2.40	2.1	0.68	0.015	0.95	640.15
19		0+423	1.50	6.91	6.0	5.63	0.015	0.69	3868.94
20		0+741	0.55	2.56	2.175	0.82	0.015	0.54	441.46

.3.10-1.

			h (m)	O	B2	A(m ²)	n	v(m/s)	Q (l/s)	
21	-3	. .	0+650	0.35	1.92	1.675	0.43	0.015	0.30	131.02
22	-5	. .	0+734	0.40	2.08	1.8	0.52	0.015	0.29	150.67
23	-7	. .	0+801	0.35	1.92	1.675	0.43	0.015	0.30	131.02
24	-11	. .	0+445	0.35	1.92	1.675	0.43	0.015	0.43	185.29
25	-13	. .	0+400	0.40	2.08	1.8	0.52	0.015	0.37	194.51
26	-15	. .	0+330	0.25	1.60	1.425	0.28	0.015	0.36	100.01
27			2+000	0.52	2.46	2.1	0.75	0.015	0.52	395.26
28	-1	. .	1+390	0.35	2.06	1.85	0.46	0.015	0.35	161.69
29	-3	. .	1+340	0.35	1.92	1.675	0.43	0.015	0.43	185.29
30	-5	-	0+583	0.35	2.06	1.85	0.46	0.015	0.74	341.09
31	-7	. .	0+000	0.40	2.08	1.8	0.52	0.015	0.37	194.51
32	-7	. .	0+092	0.40	2.08	1.8	0.52	0.015	0.37	194.51
33	-7	. .	1+060	0.40	2.08	1.8	0.52	0.015	0.37	194.51
34	-9	. .	1+155	0.30	1.68	1.5	0.31	0.015	0.38	119.07
35		1	0+000	0.40	2.04	1.8	0.48	0.015	1.02	487.47
36		1	0+720	0.40	2.04	1.8	0.48	0.015	0.36	172.35
37	-13	. .	0+000	0.40	2.08	1.8	0.52	0.015	0.37	194.51
38	-13	. .	0+046	0.40	2.08	1.8	0.52	0.015	0.37	194.51
39	-13	. .	0+520	0.40	2.08	1.8	0.52	0.015	0.37	194.51
40	-15	. .	0+472	0.45	2.24	1.925	0.61	0.015	0.40	243.63
41	-17	. .	0+248	0.45	2.24	1.925	0.61	0.015	0.40	243.63
42	K-18	. .	0+000	0.30	1.76	1.55	0.35	0.015	0.32	113.74
43	-18		0+090	0.30	1.76	1.55	0.35	0.015	0.32	113.74
44	-18	. .	0+410	0.30	1.76	1.55	0.35	0.015	0.32	113.74
45	-19	. .	0+030	0.30	1.78	1.58	0.36	0.015	0.32	115.14
46	-19	. .	0+120	0.30	1.76	1.55	0.35	0.015	0.32	113.74
47			2+650	0.50	2.60	2.25	0.81	0.015	0.31	249.38
48	-20	. .	0+267	0.20	1.44	1.3	0.21	0.015	0.32	67.17
49		1	1+179	1.91	7.49	6.33	6.62	0.015	0.97	6425.62
50			1+260	5.54	79.97	76.62	378.44	0.015	3.46	1311270,15
51			2+185	1.92	7.52	6.36	6.68	0.015	1.28	8534.82
52	(	)		0,98	4.13	3.54	2.03	0.015	0,72	1457,40

()

"/ , "

" "

= 10 ,

t_k = 5 min.

0,25), 0,9 (1000 m, i = 280 l/s/ha, a 1,0, 1000 m, i = 200 l/s/ha.

. 3.10-2.

a

			Sp(m/m)	(m)		h (m)	v(m/s)	Q (l/s)	
1		2+002	0.00025	0.6	1.5	0.50	0.27	183.11	SEP A1,A2
2		0+381	0.0005	1	1.5	0.50	0.41	360.15	SEP A3
3		1+032	0.0005	1	1.5	1.46	0.73	3418.80	SEP A4
4		0+988	0.00039	0.8	1.5	0.50	0.35	272.97	SEP A5,A6
5	1	0+834	0.00069	0.6	1.5	0.50	0.45	304.20	SEP A7,A8
6	2	0+800	0.0008	0.6	1.5	0.50	0.49	327.55	SEP A9,A10
7	1	0+405	0.0016	0.8	1.5	0.50	0.71	552.90	SEP A11,A12
8		0+423	0.00014	1.5	1.5	1.50	0.41	2321.36	SEP A13,A14
9		2+000	0.0003	0.8	1.25	0.52	0.31	237.16	SEP A15,A16,A17,A18
10	-3 . .	1+340	0.0003	0.8	1.25	0.35	0.26	111.17	SEP A19,SEPA19-1
11	-9 . .	1+155	0.0003	1	1.5	0.30	0.24	106.12	SEP A20, SEP A20-1
12	-15 . .	0+472	0.0002	0.8	1.25	0.45	0.24	146.18	SEP A21,A22
13	1	1+179	0.00025	0.6	1.5	0.50	0.27	183.11	SEP A23,A24,A25,A26
14		2+185	0.00043	0.6	1.5	0.50	0.36	240.14	SEP A27
15		1+500	0.0003	0.6	1.5	0.56	0.32	254.73	SEP 1- SEP5
16	B-17 . .	0+330	0.0002	0.8	1.25	0.25	0.18	48.99	SEP B 1
17	()	1+260	0.0003	0,6	1.5	0,98	0,43	874.44	SEP B 2

. 3.10-3.

a

			Sp(m/m)	(m)		h max (m)	v(m/s)	Q (l/s)
1		2+002	0.00025	0.6	1.5	0.45	0.75	1374.76
2		0+381	0.0005	1	1.5	0.53	0.83	952.95
3		1+032	0.0005	1	1.5	0.98	1.63	10905.97
4		0+988	0.00039	0.8	1.5	0.80	1.34	7122.99
5	1	0+834	0.00069	0.6	1.5	0.75	1.25	2283.93
6	2	0+800	0.0008	0.6	1.5	0.72	1.21	1600.06
7	1	0+405	0.0016	0.8	1.5	1.34	2.23	6638.87
8	.	0+423	0.00014	1.5	1.5	0.56	0.94	7948.71

. 3.10-3.

a

			Sp(m/m)	(m)		h max (m)	v(m/s)	Q (l/s)
9		2+000	0.0003	0.8	1.25	0.63	1.05	3734.69
10	-3 . .	1+340	0.0003	0.8	1.25	0.75	1.25	7519.35
11	-9 . .	1+155	0.0003	1	1.5	0.36	0.56	441.11
12	-15 . .	0+472	0.0002	0.8	1.25	0.62	1.03	6374.25
13	1	1+179	0.00025	0.6	1.5	0.49	0.81	1860.28
14		2+185	0.00043	0.6	1.5	0.64	1.07	2480.94
15		1+500	0.0003	0.6	1.5	0.52	0.86	1806.81
16	-17 . .	0+330	0.0002	0.8	1.25	0.59	0.99	5360.39
17	()	1+260	0.0003	0.6	1.5	0.56	0.93	2513.44

. 3.10-4.

				L ()	OK Q (l/s)	A (l/s)	
1	SEP A1,A2	0	850.00	850.00	612.61	1191.66	
2	SEP A3	850.00	1950	1100.00	566.28	592.80	
3	SEP A4	1950	3550	1600.00	823.68	7487.17	
4	SEP A5,A6	3550	3750	200.00	144.14	6850.01	
5	SEP A7,A8	3750	4875	1125	810.81	1979.73	1
6	SEP A9,A10	4875	5830	955	688.29	1272.50	2
7	SEP A11,A12	5830	6825	995	717.12	6085.97	1
8	SEP A13,A14	6825	8214	1389	715.06	5627.34	
9	SEP A15,A16,A17,A18	8214	10497	2283	1645.40	3497.54	
10	SEP A19,SEPA19-1	10497	11300	803	578.74	7408.17	-3 . .
11	SEP A20, SEP A20-1	11300	12200	900	324.32	334.98	-9 . .
12	SEP A21,A22	12200	13600	1400	859.72	6228.07	-15 . .
13	SEP A23,A24,A25,A26	13600	15900	2300	1184.04	1677.17	1
14	SEP A27	15900	17225	1325	954.95	2240.79	
15	SEP 1- SEP5	0	750	750	540.54	1552.08	
16	SEP B1	0	350	350	252.25	5311.40	-17 . .
17	SEP B2	0	951	951	685.40	1639.00	()

() (-17 -)

1,0 m

3m

5 m

. 3.10-5.

				[m ³ /s]
1		2+749		0.183
2		-		
3		0+254		0.405
4		0+328		0.405
5		1+500		0.201
6		-		0.183
7		2+002	0+248.133	0.183
8		0+131	0+613.758	0.259
9		0+381	0+852.841	0.259
10		0+192	1+652.082	0.444
11		-	1+942.629	-
12		0+981	2+163.933	0.259
13		1+032	2+903.079	3.42
14		0+988	3+325.450	0.273
15		-	3+773.709	-
16	1	0+834	4+465.902	0.304
17	2	0+800	5+381.599	0.328
18	()	0+370	5+388.114	-
19		-	5+764.927	-

. 3.10-5.

				[m ³ /s]
20	1	0+405	6+238.967	0.553
21	1	0+238	6+659.060	0.27
22		7+100	6+845.950	12.9
23	1	0+105	6+977.960	0.384
24		0+423	7+336.397	2.321
25		0+741	7+874.680	0.265
26	-3	0+650	7+901.204	0.079
27	-5	0+734	8+214.840	0.09
28	-7	0+801	8+498.480	0.079
29		2+000	8+589.905	0.237
30	-11	0+445	-	0.111
31	-13	0+400	-	0.117
32	-15	0+330	-	0.06
33	-17	0+320	-	-
34		1+260	10+497.729	248.8
35	-1	1+390	10+575.190	0.097
36	-3	1+340	10+887.419	0.111
37	-5	0+583	11+082.739	0.205
38	-7	0+000	-	0.117
39	-9	1+155	11+818.472	0.071
40	1	0+000	-	0.293
41	1	0+720	-	0.293
42	-13	0+000	-	0.117
43	-13	0+046	-	0.117
44	-13	0+520	-	0.117
45	-15	0+472	-	0.146
46	-17	0+248	13+166.471	0.146
47	K-18	0+000	-	0.068
48	-18	0+090	-	0.068
49	-18	0+410	-	0.068
50	-19	0+030	13+522.567	0.069
51	-19	0+120	-	0.068
52		2+650	13+593.823	0.161
53	-20	0+267	13+977.495	0.084
54		-	14+000 14+425	-
55	1	1+179	14+635	0.183
56		2+185	15+675 16+350	0.24
57	()	-	-	-

3.10.2.



”
 - -04. +80° ,
 (,) .

400 kV. 7 m
 (.) (- , .)

400 kV . 455
 km 16+337,063,

2 - /

+80°C.

- 1.
- 2.
- 3.
- 4.
- 5.

. 455 km 16+337,063 400 kV
 .96. ()
 () . 96

- 1. 20kV
- 2. 20kV ” ”
- 3. 20kV



20kV

100%

PVC

Ø125mm.

40m

-0,8m
-0,4m

1m

90°

-5m
-1m
-0,5m

3m

35/10kV

20/0,4kV

20(10)/0,4kV,

-70

20(10)/0,4kV

0,4kV

20/0,4kV,

- 20(10)/0,4kV km 1+975,
- 20(10)/0,4kV km 6+625,
- 20(10)/0,4kV
- 20(10)/0,4kV km 12+750
- 20(10)/0,4kV km 15+900.

km 5+500,
km 12+750

km 5+500,

km 12+750.

3.10.3-1.

a a

		Pj(kW)
1.	-	56,50
2.	km 5+500	6,85 17,25
3.	-	30,00 55,00 10,00 17,25
4.	km 12+750	10,50 55,00 10,00 17,25
5.	-	15,00 30,00

3.10.3-2.

	/	Pj(kW)
1.	VMC x 1 / km 1+000.00	3,00
2.	VMC x 1 / km 2+850.00	3,00
3.	VMC x 1 / km 7+500.00	3,00
4.	VMC x 1 / km 9+000.00	3,00
5.	VMC x 1 / km 11+053.00	3,00
6.	VMC x 1 / km 12+150.00	3,00
7.	VMC x 1 / km 12+450.00	3,00
8.	VMC x 1 / km 13+225.00	3,00
9.	VMC x 1 / km 15+350.00	3,00
10.	VMC x 2 / km 15+450.00	1,50

a,
()

3.10.4.

- /
- ne
- " T "
- " VIP "
- "Telenor"

(GSM/2G/3G/4G/HSPA+Mobile network)
2G

3G 4G/LTE

" " , . . .
:

1.			1+040.00 km - 1+080.00 km
2.			0+590.00 km
3.			1+180.00 km - 1+220.00 km
4.			10+375.00 km
5.			16+350.00 km - 16+400.00 km
6.			16+650.00 km

"VIP mobile", . . .

4 :

NS2N1001	SM_autoput_Sremska Ra a_Kuzmin 2	
NS2N1002	SM_autoput_Sremska Ra a_Kuzmin 1	
NS2N1003	SM_autoput_Sremska Ra a_Kuzmin 3	
NS2N1004	SM_autoput_Sremska Ra a_Kuzmin 4	

Telenor

	Bosut	
--	-------	--

GSM,

UMTS LTE

1.	2	
2.	2	

- km 1+040.00 km 1+080.00 - 3.
- km 0+590.00 - ,
- km 1+180.00 km 1+220.00 - 4.
- km 10+375.00 - ,
- km 16+350.00 km 16+400.00 - 2 km .

400 kV.



6/IV, 11000

- km 16+650.00

, km 0+005.00 - km 0+065.00

3.10.5.

/

4 bar

I -19.

500m.

a

a

3.10.6.

4.

4.1.

je

(

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(

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4.2.

e

(

(

)

III

2

1

2

e

2017. web
(www.sepa.gov.rs/download/KvalitetVoda2017.pdf).

" . 50/12),

(I, II, III IV)

II (III-IV), (III), II (III).
 II (III-IV) : () 1 (III-IV) 1 (III-IV) Ni-
 (N 44° 56.686' 19° 21.489') 4.2-1. 2013.



4.2-1.

() 3 II
 ()
 (),)
 5), (

(http://www.ekourbapv.vojvodina.gov.rs/wp-content/uploads/2018/09/02_izvestaj.pdf).

4.2-1

2018.

4.2-1

2018.

					>0,01mg/l	/
55.		08.10.2018.	/	/	0,025mg/l	**
56.		08.10.2018.	(0,653mg/l) /	/	*
57.		08.10.2018.	/	/	/	
58.		08.10.2018.	/	/	/	
59.		08.10.2018.	/	/	/	
60.		08.10.2018.	130 /	/	/	
62.		09.10.2018	42 153,22 mg/l	/	0,117mg/l	**

>0,3mg/l

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** >0,01mg/l

* >0,01mg/l

4.3.

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4.4.

(4.4-2). (4.4-1.)



4.4-1.
: <https://www.google.com>



4.4-2.
: <https://www.google.com>

4.5.

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6/IV, 11000

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16	

1.3.

(" . " , .37/11)

1.3-1.

		-	PM ₁₀ , O ₃ : SO ₂ , NO ₂ ,
		-	: (db (A))
			: (db (A))
			Serbian Water Quality Index (SWQL)
			(, % O ₂ , 5, (), : (0 100) : (0-38) (39-71)- (72- 83) , (84-89)- (90-100)-

1.3-1.

			($^{\circ}$), ($\mu\text{S/cm}$), % O_2/l), P/l), (n/100ml)
		- -	: ha km ² : t/ha %
			(%) : (ha). (%) : : (ha); (m ³) (m ³) (m ³ /ha) (t/ha).
			: (t/ .) (,) :
			(t/ .)



6/IV, 11000

1.3-1.

III

1.1.

- 1)
- 2)

1.1 –

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9	

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		0	0	0	-	-	-	0	-	-	-	0	-	0	0	0	0
		0	0	0	0	-	-	-	-	0	-	0	0	0	0	0	0
		0	0	0	-	-	0	0	-	0	-	0	0	-	0	0	0
		0	0	-	0	0	0	0	-	-	0	0	-	-	-	0	0
		-	-	-	-	0	-	0	0	-	0	0	0	-	-	0	0
		-	-	-	-	-	-	0	-	-	0	-	-	0	-	0	0
		0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
		-	-	-	-	-	-	0	-	0	0	+	-	-	0	0	0
		0	-	-	0	0	0	-	-	0	0	-	-	0	-	0	0



6/IV, 11000

		-	-	-	-	-	-	-	-	-	-	0	0	-	0	-	-
		0	0	0	-	-	-	-	-	0	-	0	-	0	0	-	-
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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		0	0	0	-	0	-	0	-	0	-	0	+	0	0	0	0
		0	0	0	0	+	0	-	-	0	0	0	0	0	0	0	0
		0	0	0	+	+	0	0	+	0	+	0	+	+	0	0	+
		+	+	0	0	0	0	0	0	0	0	0	0	+	+	0	0
		+	+	+	+	0	+	0	+	+	0	0	0	+	+	+	+
		+	+	-	0	0	0	0	+	+	0	0	0	+	+	0	0
		0	0	0	0	0	0	0	0	0	0	0	+	+	+	+	+
		+	+	+	0	0	-	-	0	0	+	0	+	+	+	0	0
		0	+	+	0	0	0	0	0	0	+	+	+	0	+	0	0



6/IV, 11000

		+	+	+	+	+	+	+	+	+	+	0	0	+	0	+	+
		0	0	0	0	0	0	0	+	0	+	0	0	0	0	+	+
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: CO, CO₂, C_xH_y, HCOH,

SO₂

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C , N_x, S₂,

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(www.pupdvs.co.rs),

1.3.1-1, 1.3.1-2 1.3.1-3.

1.3.1-1.

			CO	HC	NOx	PM
	1	01/07/1992	4.05	0.66	0.49	-
	2	01/01/1996	3.28	0.34	0.25	-
	3	01/01/2000	2.30	0.20	0.15	-
	4	01/01/2005	1.00	0.10	0.08	-
	1	01/07/1992	2.88	0.20	0.78	0.14
	2	01/01/1996	1.06	0.19	0.73	0.10
	3	01/01/2000	0.64	0.06	0.50	0.05
	4	01/01/2005	0.50	0.05	0.25	0.025

(g/km)

1.3.1-2.

	a			CO	HC	NOx	HC+NOx	PM
1 <1305kg	1*	01/10/1994		2.72	-	-	0.97	0.14
	2*	01/01/1998		2.20	-	-	0.50	-
				1.00	-	-	0.60	-
	3	01/01/2001		2.30	0.20	0.15	-	-
				0.64	-	0.50	0.56	0.050
	4	01/01/2006		1.00	0.10	0.08	-	-
			0.50	-	0.25	0.30	0.025	
1305< 2 <1760 kg	1*	01/10/1994	a	5.17	-	-	1.40	0.19
	2*	01/01/1998		4.00	-	-	0.65	-
				1.20	-	-	1.10	0.15
	3	01/01/2002		4.17	0.25	0.18	-	-
				0.80	-	0.65	0.72	0.07
	4	01/01/2006		1.81	0.13	0.10	-	-
			0.63	-	0.33	0.39	0.04	
3 > 1760 kg	1*	01/10/1994	a	6.90	-	-	1.70	0.25
	2*	01/01/1998		5.00	-	-	0.80	-
				1.35	-	-	1.30	0.20
	3	01/01/2002		5.22	0.21	0.21	-	-
				0.95	0.78	0.78	0.86	0.10
	4	01/01/2006		2.27	0.11	0.11	-	-
			0.74	0.39	0.39	0.46	0.06	

* a : (g/km)
 1 2 : 1<1250 kg, 1250kg<: 2<1700 kg i : 3>1700 kg

1.3.1-3.

		T T	CO	HC	HC	NOx	PM
1	01/10/1993	13-mode	4.5	1.0	-	8.0	0.612<85kW 0.360>85kW
2	01/10/1996	13-mode	4.0	1.1	-	7.0	0.15
3	01/01/2000	SC	2.1	0.66	-	5.0	0.10 0.13**
		TC	5.5	0.78	1.6	5.0	0.16 0.21**
4	01/10/2005	SC	1.5	0.46	-	3.5	0.02
		TC	4.0	0.55	1.1	3.5	0.03
5	01/10/2008	SC	1.5	0.46	-	2.0	0.02
		TC	4.0	0.55	1.1	2.0	0.03

** : (g/kWh)
 750 ccm 3000 o/min

1.3.1.1.

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98-

(

1.3.1.2.

(C)

(C),
(C_xH_y)

(Pb),

(CC).

(N),

(N₂),

(S₂),

1.3.1.3.

mg/m³.

98 -

1.3.1.4.

(Merkblatt über Luftverunreinigungen an

Strassen MluS-92).

98 -

$$i(s) = i^* \times g(s) \times f_{vi} \times f_u \quad \text{mg/m}^3$$

i^* -
 $g(s)$ -
 f_{vi} -
 f_u -

(i)

$$g(s) = 1 - 0.166 \ln(1+s)$$

$g(s)$ -
 s -

97% 98% - , 2% 3% -

N N_2 .

N N_2

N_2

$$g_{N_2}(s) = 1 - 0,088 \times \ln(1+s)$$

N_2

N_2

98

$$M_{N_2}(DTV) = 4,47 \times 10^{-3} \times DTV^{0,514} \times \exp(-4,14 \times 10^{-6} \times DTV)$$

N₂

:

$$K_{N_2}(s,DTV) = K^*_{N_2} \times g_{N_2}(s) \times M_{N_2}(DTV) \times r_{nj}$$

r_{nj}..... N₂ K*_{N₂} :

$$K^*_{N_2} = 0,052 \text{ mg/m}^3$$

$$K^*_{N_2} = 0,110 \text{ mg/m}^3 \quad 98-$$

$$f_w = f(u) \quad (u)$$

98 -

Luftverunreinigungen in Straßen, LuS 92,
()

: r blatt über

3.1.1-4. -

1 -	2041	4854	114	52	43	109	646	5819
- / .	2041	4962	112	53	72	127	705	6032

3,42 m/s.

2041.

CO, NO, NO₂, C_xH_y, Pb, SO₂

1 m 300 m

(, . 11/10, 75/10 63/13)
().

(,),

3,42 m/s.

2

1.3.1-5.

: 1 - ,

3,42 m/s

2041.

(mg/m ³)	(m)						
	1.0	10	20	50	100	200	300
()	0,04216	0,02868	0,02356	0,01655	0,01114	0,005699894	0,002506671
(x)	0,13083	0,08899	0,07312	0,05135	0,03458	0,017689326	0,007779324

()	0,00501	0,00341	0,00280	0,00197	0,00132	0,000677828	0,000298092
(x)	0,01504	0,01023	0,00841	0,00590	0,00397	0,002033484	0,000894276
()	0,02324	0,01581	0,01299	0,00912	0,00614	0,00314168	0,001381633
(x)	0,07220	0,04911	0,04035	0,02834	0,01908	0,009761649	0,00429293
()	0,05810	0,04882	0,04530	0,04047	0,03675	0,032998298	0,030799592
(x)	0,18053	0,15168	0,14075	0,12573	0,11417	0,102530427	0,095698732
()	0,00005	0,00003	0,00003	0,00002	0,00001	6,40118E-06	2,81508E-06
(x)	0,00014	0,00010	0,00008	0,00006	0,00004	1,93052E-05	8,48993E-06
()	0,00107	0,00073	0,00060	0,00042	0,00028	0,000144607	6,35944E-05
(x)	0,00331	0,00225	0,00185	0,00130	0,00087	0,000446966	0,000196564
()	0,00015	0,00010	0,00008	0,00006	0,00004	1,96453E-05	8,63952E-06
(x)	0,00045	0,00030	0,00025	0,00018	0,00012	6,03392E-05	2,65357E-05

mg/m³

1.3.1-5.

r blatt über Luftverunreinigungen n Straß n, LuS 92,

1

m

1.3.1-6.

3,42 m/s 2041.

()

(mg/m ³)	(m)						
	1.0	10	20	50	100	200	300
()	0,04320	0,02868	0,02356	0,01655	0,01114	0,005699894	0,002506671
(x)	0,13408	0,08899	0,07312	0,05135	0,03458	0,017689326	0,007779324
()	0,00525	0,00341	0,00280	0,00197	0,00132	0,000677828	0,000298092
(x)	0,01574	0,01023	0,00841	0,00590	0,00397	0,002033484	0,000894276
()	0,02477	0,01581	0,01299	0,00912	0,00614	0,00314168	0,001381633
(x)	0,07696	0,04911	0,04035	0,02834	0,01908	0,009761649	0,00429293
()	0,05913	0,04882	0,04530	0,04047	0,03675	0,032998298	0,030799592
(x)	0,18373	0,15168	0,14075	0,12573	0,11417	0,102530427	0,095698732
()	0,00005	0,00003	0,00003	0,00002	0,00001	6,40118E-06	2,81508E-06
(x)	0,00015	0,00010	0,00008	0,00006	0,00004	1,93052E-05	8,48993E-06
()	0,00117	0,00073	0,00060	0,00042	0,00028	0,000144607	6,35944E-05
(x)	0,00362	0,00225	0,00185	0,00130	0,00087	0,000446966	0,000196564
()	0,00016	0,00010	0,00008	0,00006	0,00004	1,96453E-05	8,63952E-06
(x)	0,00049	0,00030	0,00025	0,00018	0,00012	6,03392E-05	2,65357E-05

mg/m³

1.3.1-6.

r blatt über Luftverunreinigungen n Straß n, LuS 92,

1

m

1 m

1.3.2-2.

a

(2041. .)

	(kg/ha/god)	1 ha (mg/l)	* (mg/l)
	97-101	133-138	25
2 (5)	4,3-4,5	6	4,5-5,0
2 ()	32,8-34,0	45-47	10
	1,5-1,6	2,1	-
(Cu)	0,007	0,009	0,005-0,112 *
(Pb)	0,008-0,009	0,011-0,012	0,0012**
(Zn)	0,053-0,055	0,072-0,075	0,3-2 *

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, " . " , . 50/12

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, " . " , . 74/11

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, " . " , . 24/14

- Barrett, M.E., Malina, Jr., J.F., Charbeneau, R.J., Ward, G.H., 1995, Water Quality and Quantity Impacts of Highway Construction and Operation: Summary and Conclusions, Center for Research in Water Resources, Technical Report No. 266, University of Texas at Austin, Austin, TX.

- , , , 17-19 1987 .

1.3.2-2,

1.3.3.

pH 7
85 %
40 - 60 %
Zn
Mn Fe
40 - 70 %,
a (
)
10 100 m, " " 10 m 100 m
Cd
3 mg/kg.
pH 6.5
Cd
5.0 10.0 m
1.0 5.0 m
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1.3.4.

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()
 (1),
 (4) 130 km/h,
 (3) 80 km/h.
 CNOSSOS-EU. 1.3.4-1. 2)

1.3.4-1.

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-	4809	100	812	97	5819
- / .	4914	128	888	98	6032

24

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75/10)

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Lday = 65 dB(A),

Levening = 65 dB(A)

Lnight = 55 dB(A).

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1.3.5

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Gädke

- I.(40-50 dB)-
- II.(60-80 dB)-
- III.(90-110 dB)-

- IV. (120 dB)-

40-100 dB()

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80 dB .

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1.3.6.

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(10)

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1.3.7.

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- " - " ;
- " — " j- — " .

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1.3.10.

1.3.11.

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6/IV, 11000

• 97. (" . " . 30/10, 93/12 101/16),

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41/10).

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(500)

<i>syriaca</i>),	(<i>Acer negundo</i>),	(<i>Ailanthus glandulosa</i>),	(<i>Asclepias</i>
<i>fruticosa</i>),	(<i>Celtis occidentalis</i>),	(<i>Eleagnus angustifolia</i>),	(<i>Amorpha</i>
<i>halimifolium</i>),	(<i>Fraxinus pennsylvanica</i>),	(<i>Gledichia triachantos</i>),	(<i>Lycium</i>
(<i>Reynouria syn. Fallopia japonica</i>),	(<i>Parthenocissus inserta</i>),	(<i>Prunus serotina</i>),	(<i>Ulmus</i>
<i>pumila</i>).	(<i>Robinia pseudoacacia</i>),		

a o

2.8

- („ . „ , . 102/10),
- („ . „ , . 5/10, 47/11, 32/16 98/16),
- - („ . „ , . 72/10),
- - („ . „ , . 102/07),
- („ . „ - „ , . 11/01).

1. :
2. / 50
3. 50
4. (200m)
5. /
6. /
7. 5
8. 8
9. () ()
10. 0,5cm. 60cm ()
 (1,5 m) 2 m. 0,5 m) (2.8-1.)

- 50 m / ,
 - ; 50 m / (;
 -) ;
11. .
12. .
- , / :
 - (: ;
 - 1,5;) . / ,
 - () .
 - () 1 .
 - ()
- 0,5 . (.
-) .
13. .
- 5.4
14. .
- (500) () .



2.8-1. ()

3280 02.09.2019. . “ 2679 “ 10.07.2019. .

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- a)
- b)
- c)

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6/IV, 11000

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IV

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(. .135/04, 36/09).

17.

III.

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V

" ,) , " _ (, 135/04, 36/09, 36/09- , 72/09- , 43/11- , 14/16, 76/18 95/18- , . 69.) .

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1.3.1 II ,

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- (, , , ,) :
- („ , 135/04, 36/09, 36/09- , 72/09- , 43/11- , 14/16, 76/18 95/18- .) ;
- („ , . 36/09, 88/10, 14/16 95/18) ;
- (. 36/09 10/13) ;
- (. , . 30/10, 93/12, 101/16, 95/18 95/18- .) ;
- (. 62/06, 65/08, 41/09, 112/15, 80/17 95/18- .) ;
- (. , . 104/16, 95/18- . 10/19- .) ;
- (. , . 36/09 88/10) ;

1.1.1.

„ 88/10 30/18) („ . „) („ . „ , 50/12) .

(" ,) .

((Cd), (Cr), (Hg), (Cu), (Ni), (Pb), (Zn)),
(PAH) (C₄₀) C₁₀⁻) ,

(" . , .88/10 30/18).

(" . , 50/12).

(50 m) .

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1.1.2.

72/09- , 43/11- (" . , .135/04 36/09, 36/09-
30/10, 93/12 101/16) 14/16), (" . ,) .
33/16), (" . ,) .

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(" . , . 33/16),

(" . , . 33/16)

(, . , .67/11, 48/12 1/16).

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• (2h),

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(C₁₀-C₄₀).

(" . " , . 33/16)

1.1.3.

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• (2h),

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• pH

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(C₁₀-C₄₀).

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1.1.4.

ISO 1996.

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36/09- , 72/09- , 43/11- („ , 135/04, 36/09,
73, 74, 75, 75a, 76). , 14/16, 76/18 95/18-), . 69, 70, 71, 72,

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- 2.
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VI

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" . 135/04, 88/10).

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” ” ” , 2002

.1, 2006

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.1.2-1.

Врста утицаја	позитиван негативан неутралан	
Вероватноћа утицаја	сигуран вероватан мало вероватан	С В Мв
Време трајања утицаја	краткотрајан средњорочни дуготрајан	К Ср Д
Учесталост утицаја	повремени сталан	П Ст
Просторне мере утицаја	међународни национални регионални локални	М Н Р Л

