

*Appendix A-3*

*Result of Distribution Network Analysis*

2010 (Hourly Max/Ежечный максимум)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
1 11_001	3.123	399.95	345.50	54.45		
2 12_029	2.297	399.98	346.00	53.98		
3 11_002	3.123	399.94	345.10	54.84		
4 11_005	1.649	399.93	344.70	55.23		
5 11_006	1.649	399.93	344.90	55.03		
6 11_007	1.649	399.91	345.80	54.11		
7 11_008	1.649	400.00	344.80	55.20		
8 21_003	1.649	400.05	345.00	55.05		
9 12_041	3.123	399.90	348.60	51.30		
10 12_003	3.548	399.90	349.80	50.10		
11 12_004	2.303	399.91	348.80	51.11		
12 12_005	3.548	399.83	349.50	50.33		
13 12_006	3.548	399.83	349.90	49.93		
14 12_007	3.548	399.86	350.50	49.36		
15 12_009	3.548	399.79	351.50	48.29		
16 12_010	3.548	399.79	350.80	48.99		
17 12_018	2.297	399.90	350.00	49.90		
18 12_019	2.297	399.90	349.80	50.10		
19 12_020	2.297	399.91	349.10	50.81		
20 12_021	2.297	399.91	350.50	49.41		
21 12_022	2.297	399.91	349.80	50.11		
22 12_027	2.297	400.01	346.50	53.51		
23 12_028	2.297	399.98	346.10	53.88		
24 12_030	2.297	399.94	347.30	52.64		
25 12_025	2.297	399.97	347.00	52.97		
26 12_032	2.297	399.95	349.00	50.95		
27 12_033	2.297	399.93	349.80	50.13		
28 12_034	2.297	400.00	348.20	51.80		
29 12_035	2.297	399.99	348.40	51.59		
30 12_002	3.543	400.18	349.30	50.88		
31 12_001	5.200	400.18	348.80	51.38		
32 22_052	5.232	400.20	350.00	50.20		
33 12_036	5.232	400.15	348.80	51.35		
34 12_037	5.232	400.06	348.20	51.86		
35 22_020	5.232	400.12	348.80	51.32		
36 12_038	2.297	399.95	349.50	50.45		
37 12_039	2.297	400.04	348.60	51.44		
38 22_012	2.297	400.05	346.80	53.25		
39 12_040	3.123	399.90	349.10	50.80		
40 12_031	2.297	399.96	349.10	50.86		
41 22_021	5.232	400.07	349.20	50.87		
42 12_050	5.232	400.11	348.90	51.21		
43 12_015	3.548	399.82	351.50	48.32		
44 22_001	2.297	400.08	346.10	53.98		
45 12_045	5.232	400.05	349.00	51.05		
46 12_046	2.297	400.01	349.00	51.01		
47 12_047	3.548	400.18	349.00	51.18		
48 23_005	5.232	400.25	351.80	48.45		
49 22_003	2.297	400.04	346.40	53.64		
50 13_001	3.548	398.31	355.10	43.21		
51 13_002	34.982	398.21	352.20	46.01	TETs-1(2)	
52 13_004	3.548	398.98	361.10	37.88		
53 13_006	3.548	398.49	353.50	44.99		
54 23_001	3.548	398.75	355.70	43.05		
55 13_013	3.548	399.20	362.00	37.20		
56 23_059	3.548	399.32	364.50	34.82		
57 13_008	31.434	398.15	352.20	45.95	TETs-1(1)	
58 21_004	3.123	400.11	345.34	54.77		
59 21_005	2.297	400.17	345.50	54.67		
60 22_002	2.297	400.19	346.50	53.69		

2010 (Hourly Max/Ежечный максимум)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
61 21_007	2.297	400.14	345.40	54.74		
62 21_002	6.279	400.04	344.50	55.54		
63 21_008	6.279	400.04	344.00	56.04		
64 22_006	2.297	400.11	347.00	53.11		
65 22_007	2.297	400.11	346.50	53.61		
66 22_008	2.297	400.10	346.50	53.60		
67 22_009	2.297	400.12	346.00	54.12		
68 22_010	2.297	400.06	346.50	53.56		
69 22_011	2.297	400.06	346.60	53.46		
70 22_013	5.232	400.12	346.70	53.42	BPS/LWL:346.3,PH:65	
71 22_014	5.232	400.10	348.00	52.10		
72 22_015	5.232	400.12	349.30	50.82		
73 22_016	5.232	400.13	350.10	50.03		
74 22_017	5.232	400.13	350.00	50.13		
75 22_018	5.232	400.16	350.60	49.56		
76 22_019	5.232	400.20	350.60	49.60		
77 22_022	5.232	400.17	349.80	50.37		
78 22_023	5.232	400.19	350.60	49.59		
79 22_024	5.232	400.19	348.20	51.99		
80 22_025	5.232	400.17	347.00	53.17		
81 22_026	5.232	400.22	352.00	48.22		
82 22_027	5.232	400.25	351.00	49.25		
83 22_028	5.232	400.19	348.00	52.19		
84 22_029	5.232	400.21	347.50	52.71		
85 22_030	5.232	400.23	350.10	50.13		
86 22_032	5.256	400.30	350.00	50.30		
87 22_033	5.232	400.24	352.40	47.84		
88 22_034	5.246	400.30	350.20	50.10		
89 22_035	5.232	400.24	352.60	47.64		
90 23_017	5.246	400.34	350.00	50.34		
91 22_036	5.232	400.28	352.00	48.28		
92 23_018	5.232	400.31	352.60	47.71		
93 22_037	5.232	400.27	352.90	47.37		
94 23_009	5.232	400.29	353.50	46.79		
95 22_038	5.232	400.28	353.00	47.28		
96 23_007	5.232	400.27	351.80	48.47		
97 22_039	5.246	400.50	350.00	50.50		
98 32_010	5.246	400.50	350.10	50.40		
99 22_040	5.246	400.35	346.80	53.55		
100 22_042	5.246	400.28	349.20	51.08		
101 22_043	5.246	400.33	346.00	54.33		
102 22_044	5.246	400.46	348.00	52.46		
103 32_016	5.246	400.46	347.40	53.06		
104 22_045	5.246	400.48	349.50	50.98		
105 22_059	5.246	400.48	349.50	50.98		
106 22_046	5.246	400.44	348.20	52.24		
107 23_010	5.246	400.57	352.00	48.57		
108 22_047	5.246	400.39	345.90	54.49		
109 22_048	5.246	400.39	345.50	54.89		
110 22_049	5.246	400.38	346.00	54.38		
111 22_050	5.246	400.39	344.50	55.89		
112 22_051	5.246	400.42	347.00	53.42		
113 23_041	5.246	400.50	349.80	50.70		
114 22_041	5.246	400.26	350.00	50.26		
115 22_053	2.297	400.11	346.50	53.61		
116 32_008	5.246	400.39	344.50	55.89		
117 22_054	5.232	400.22	350.80	49.42		
118 22_055	5.246	400.36	347.00	53.36		
119 23_016	5.246	400.41	348.50	51.91		
120 22_056	2.297	400.23	346.50	53.73		

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2010(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
121_22_057	2.297	400.23	346.70	53.53		
122_22_058	5.246	400.38	346.00	54.38		
123_32_007	5.246	400.49	349.30	51.19		
124_23_004	8.007	399.13	360.50	38.63		
125_24_003	8.007	400.11	355.00	45.11		
126_23_006	5.232	400.27	352.50	47.77		
127_23_008	5.232	400.32	354.00	46.32		
128_23_011	5.246	400.69	354.00	46.69		
129_23_012	5.246	400.63	353.20	47.43		
130_23_013	5.246	400.60	354.00	46.60		
131_23_014	5.246	400.64	354.00	46.64		
132_23_015	5.246	400.52	352.00	48.52		
133_23_019	5.246	400.74	350.00	50.74		
134_33_036	5.246	400.69	348.00	52.69		
135_23_020	5.246	400.64	350.10	50.54		
136_33_048	5.246	400.59	350.20	50.39		
137_23_021	5.246	400.40	351.20	49.20		
138_23_022	5.232	400.38	351.80	48.58		
139_23_023	5.246	400.37	351.00	49.37		
140_23_024	5.246	400.41	349.70	50.71		
141_23_025	5.232	400.34	351.70	48.64		
142_23_026	4.110	400.43	353.70	46.73		
143_23_027	4.096	400.46	355.00	45.46		
144_23_028	4.096	400.52	354.50	46.02		
145_23_029	3.548	400.52	353.90	46.62		
146_23_030	4.096	400.43	354.20	46.23		
147_23_031	4.096	400.44	355.70	44.74		
148_23_033	4.096	400.70	356.10	44.60		
149_23_034	4.096	400.80	354.00	46.80		
150_23_079	4.157	400.82	350.52	50.30		
151_23_036	4.096	401.11	353.80	47.31		
152_23_037	4.096	401.12	354.80	46.32		
153_23_038	4.150	401.20	354.20	47.00		
154_23_039	4.096	401.05	355.50	45.55		
155_23_042	5.246	400.55	352.20	48.35		
156_23_045	4.096	400.64	356.50	44.14		
157_23_049	4.096	400.96	356.20	44.76		
158_23_050	4.096	401.08	355.20	45.88		
159_23_051	4.096	400.59	355.50	45.09		
160_23_053	8.007	401.13	354.40	46.73		
161_23_055	4.096	401.21	354.70	46.51		
162_23_056	4.096	401.29	354.40	46.89		
163_23_057	4.096	401.37	354.00	47.37		
164_23_058	4.096	401.45	353.60	47.85		
165_24_001	8.007	400.09	359.00	41.09		
166_24_006	4.096	401.54	353.10	48.44		
167_23_052	8.007	401.87	354.50	47.37		
168_23_060	4.096	401.87	355.00	46.87		
169_23_061	5.246	400.45	350.50	49.95		
170_23_062	4.096	400.62	355.80	44.82		
171_23_063	4.096	400.76	356.10	44.66		
172_23_064	4.096	400.58	356.00	44.58		
173_23_043	4.096	400.96	356.90	44.06		
174_23_065	4.096	401.00	356.30	44.70		
175_23_047	4.096	401.03	355.00	46.03		
176_23_078	3.548	399.08	359.90	39.18		
177_24_007	4.096	401.89	353.40	48.49		
178_23_066	4.096	401.03	356.10	44.93		
179_23_040	5.246	400.58	352.50	48.08		
180_23_071	4.096	401.28	354.40	46.88		

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2010(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
181_23_073	4.096	401.35	354.00	47.35		
182_34_049	4.096	401.60	352.70	48.90		
183_23_074	4.150	401.36	353.30	48.06		
184_33_034	4.150	401.43	353.00	48.43		
185_23_075	4.150	401.23	354.40	46.83		
186_23_072	4.150	401.29	354.00	47.29		
187_23_076	4.150	401.06	353.00	48.06		
188_23_035	4.150	400.99	352.00	48.99		
189_23_077	4.150	400.92	351.00	49.92		
190_33_031	4.150	401.43	352.50	48.93		
191_33_040	4.150	400.70	348.00	52.70		
192_24_002	8.007	400.76	355.80	44.96		
193_24_004	8.007	401.30	351.90	49.40		
194_34_038	8.007	401.76	351.20	50.56		
195_24_008	-2651.107	402.00	353.00	49.00	LWL:352.0 + PH:50.0	
196_34_011	8.225	401.71	354.00	47.71		
197_25_001	483.121	401.47	360.00	41.47	TETs-2	
198_34_045	12.662	399.68	360.00	39.68		
199_34_048	4.096	401.75	351.20	50.55		
200_24_009	8.007	401.93	350.50	51.43		
201_32_002	2.279	400.45	344.20	56.25		
202_32_003	2.279	400.49	345.10	55.39		
203_33_020	18.883	400.54	345.00	55.54		
204_32_004	2.279	400.40	343.50	56.90		
205_32_005	5.246	400.48	347.40	53.08		
206_32_006	5.246	400.46	346.90	53.56		
207_33_044	5.246	400.54	348.40	52.14		
208_32_009	2.279	400.39	346.00	54.39		
209_33_047	5.246	400.55	350.20	50.35		
210_32_015	2.279	400.40	343.50	56.90		
211_32_013	2.279	400.40	344.00	56.40		
212_33_003	16.930	400.82	349.10	51.72		
213_34_015	16.930	400.66	348.30	52.36		
214_33_004	16.930	401.21	349.30	51.91		
215_34_030	16.930	401.35	350.50	50.85		
216_33_005	4.150	401.32	348.10	53.22		
217_33_006	4.150	400.88	346.00	54.88		
218_33_007	18.883	400.68	346.00	54.68		
219_33_008	4.150	401.12	346.80	54.32		
220_33_009	4.150	401.17	347.40	53.77		
221_33_011	4.150	401.32	348.60	52.72		
222_33_012	4.150	401.07	346.00	55.07		
223_33_013	4.150	401.00	345.50	55.50		
224_33_014	4.150	400.93	345.50	55.43		
225_33_015	4.150	401.32	348.00	53.32		
226_33_016	4.150	401.23	348.10	53.13		
227_33_017	4.150	401.24	346.80	54.44		
228_33_019	4.150	400.99	346.00	54.99		
229_33_021	18.883	400.62	346.30	54.32		
230_33_029	4.150	401.35	348.40	52.95		
231_34_036	4.150	401.51	349.40	52.11		
232_33_030	4.150	401.38	350.90	50.48		
233_33_028	4.150	401.58	350.30	51.28		
234_34_035	4.150	401.61	350.30	51.31		
235_33_032	4.150	401.51	350.00	51.51		
236_33_033	4.150	401.54	350.00	51.54		
237_34_034	4.150	401.49	352.80	48.69		
238_33_037	5.246	400.69	346.80	53.89		
239_33_038	5.246	400.63	347.70	52.93		
240_33_039	5.246	400.59	348.40	52.19		

2010(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
241 33_041		4.150	400.69	346.00	54.69	
242 33_042		5.246	400.69	345.90	54.79	
243 33_045		5.246	400.54	349.70	50.84	
244 33_046		5.246	400.56	349.20	51.36	
245 33_049		5.246	400.66	345.90	54.76	
246 33_050		4.150	401.11	347.30	53.81	
247 34_001		8.229	400.39	357.90	42.49	
248 34_002		8.225	400.48	358.20	42.28	
249 34_003		8.225	400.74	357.80	42.94	
250 34_004		8.225	400.59	357.80	42.79	
251 34_006		8.225	400.64	359.20	41.44	
252 34_007		8.225	400.94	357.30	43.64	
253 34_008		8.225	401.57	354.10	47.47	
254 34_009		8.225	400.94	357.00	43.94	
255 35_002		8.225	400.02	359.60	40.42	
256 34_010		8.225	400.48	358.60	41.88	
257 35_001		8.225	400.05	360.30	39.75	
258 34_012		8.225	401.05	356.50	44.55	
259 34_013		16.930	401.55	353.80	47.75	
260 34_016		16.930	400.61	350.80	49.81	
261 34_017		16.930	401.02	351.00	50.02	
262 34_018		16.930	401.06	356.30	44.76	
263 34_019		16.930	401.39	351.80	49.59	
264 34_020		16.930	401.06	353.20	47.86	
265 34_021		16.930	400.93	353.00	47.93	
266 34_022		16.930	400.93	352.20	48.73	
267 34_023		16.930	401.47	353.00	48.47	
268 34_026		16.930	401.18	356.70	44.48	
269 34_031		16.930	401.55	353.90	47.65	
270 34_032		16.930	401.52	354.00	47.52	
271 34_033		4.150	401.57	351.80	49.77	
272 34_037		4.150	401.64	350.00	51.64	
273 34_039		4.096	401.66	350.50	51.16	
274 34_043		12.662	399.24	354.00	45.24	
275 44_006		9.108	399.02	349.00	50.02	
276 34_044		12.662	399.48	359.00	40.48	
277 34_046		12.662	398.71	361.00	37.71	
278 45_001		12.662	397.83	360.00	37.83	
279 35_003		10.072	399.08	365.10	33.98	
280 35_007		12.662	398.53	367.00	31.53	
281 35_008		10.072	398.82	366.00	32.82	
282 35_009		19.874	398.82	367.50	31.32	
283 45_005		19.874	398.59	372.50	26.09	
284 36_004		9.303	398.55	367.50	31.05	
285 42_001		9.108	398.23	347.00	51.23	
286 42_002		9.108	397.54	347.00	50.54	
287 42_003		14.741	396.18	348.00	48.18	
288 52_004		14.743	394.36	348.00	46.36	
289 43_001		14.743	397.48	348.00	49.48	
290 43_002		9.108	397.63	348.00	49.63	
291 42_004		9.108	398.31	346.00	52.31	
292 42_005		9.108	398.28	346.00	52.28	
293 42_006		9.108	398.25	347.00	51.25	
294 42_007		9.108	398.35	346.00	52.35	
295 43_004		9.108	398.54	348.00	50.54	
296 43_003		9.108	397.44	348.00	49.44	
297 44_001		9.108	397.13	350.00	47.13	
298 43_005		9.108	398.61	348.00	50.61	
299 43_006		9.108	398.71	348.00	50.71	
300 44_003		9.108	397.56	355.00	42.56	

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[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
301 44_005		9.108	398.88	347.00	51.88	
302 44_002		9.108	397.07	353.00	44.07	
303 54_007		68.433	396.67	353.00	43.67	
304 44_004		12.662	397.45	356.00	41.45	
305 44_007		68.435	397.05	357.00	40.05	
306 45_002		12.662	397.59	363.00	34.59	
307 54_002		68.433	396.90	353.00	43.90	
308 45_003		13.369	397.47	357.00	40.47	
309 52_001		14.743	392.43	349.50	42.93	
310 62_001		14.743	391.89	350.00	41.89	
311 52_005		14.743	393.07	349.00	44.07	
312 63_001		14.743	391.31	350.00	41.31	
313 62_002		2.244	391.62	350.00	41.62	
314 72_001		2.244	391.61	351.00	40.61	
315 62_003		2.244	391.47	350.60	40.87	
316 73_001		5.979	391.26	352.00	39.26	
317 63_002		0.000	391.30	350.00	41.30	
318 63_003		1.474	391.28	350.50	40.78	
319 63_005		2.244	391.27	350.50	40.77	

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2010(Hourly Max/Ежечный максимальный)

[Pipe]	Node(u) Верхний	Node(d) Нижний	Dia.(mm) диам.(мм)	Length(m) Длина(м)	C	Flow(l/s) Течение(л/с)	Velocity(m/s) Скорость(м/с)	Gradient(%) Градуc(%)
361	34_033	34_034	800	260	110	204.991	0.408	0.28
362	34_037	34_035	1000	210	110	257.559	0.328	0.15
363	34_038	34_039	1000	380	110	352.122	0.448	0.26
364	34_037	34_036	400	330	110	39.974	0.318	0.40
365	34_037	34_036	600	350	110	112.593	0.398	0.38
366	34_018	34_010	500	1390	110	73.330	0.373	0.42
367	34_026	34_018	600	270	110	123.165	0.436	0.45
368	34_043	44_006	1000	750	110	375.411	0.478	0.29
369	34_044	34_043	1000	790	110	388.073	0.494	0.31
370	34_045	34_044	1000	610	110	400.735	0.510	0.33
371	34_045	34_046	400	630	110	82.699	0.658	1.54
372	34_046	45_001	400	780	110	70.037	0.557	1.13
373	34_004	34_001	500	360	110	84.767	0.432	0.54
374	34_048	34_037	1000	670	110	275.390	0.351	0.16
375	34_048	34_013	400	780	110	31.434	0.250	0.26
376	34_048	34_049	500	440	110	67.344	0.343	0.35
377	34_039	34_037	1000	330	110	138.886	0.177	0.05
378	34_039	34_033	800	320	110	209.141	0.416	0.29
379	34_031	34_032	700	100	110	140.643	0.365	0.27
380	34_012	34_009	500	130	110	109.847	0.559	0.88
381	35_001	35_002	400	570	110	14.507	0.115	0.06
382	35_002	35_003	500	1120	110	107.069	0.545	0.84
383	35_007	45_001	500	1550	110	76.564	0.390	0.45
384	35_003	35_008	500	370	110	96.997	0.494	0.70
385	35_009	45_005	400	1030	110	29.177	0.232	0.22
386	35_009	35_008	500	660	110	2.302	0.012	0.00
387	35_008	35_007	500	490	110	89.226	0.454	0.60
388	35_001	35_009	400	1930	110	51.353	0.409	0.64
389	45_005	36_004	400	1380	110	9.303	0.074	0.03
390	42_001	42_002	400	540	110	74.389	0.592	1.26
391	42_002	42_003	400	990	110	77.805	0.619	1.37
392	42_003	52_004	400	1010	110	90.144	0.717	1.80
393	43_001	42_003	300	1640	110	27.080	0.383	0.79
394	43_002	42_002	400	1780	110	12.524	0.100	0.05
395	42_004	42_005	800	400	110	101.713	0.202	0.08
396	42_005	42_006	800	540	110	92.605	0.184	0.06
397	42_006	42_001	800	360	110	83.497	0.166	0.05
398	42_007	42_004	800	460	110	110.821	0.220	0.09
399	43_004	42_007	800	1830	110	119.929	0.239	0.10
400	43_002	43_001	500	990	110	41.823	0.213	0.15
401	43_002	43_003	400	550	110	36.743	0.292	0.34
402	43_003	44_001	400	1530	110	27.635	0.220	0.20
403	43_005	43_004	1000	530	110	229.235	0.292	0.12
404	43_006	43_005	1000	810	110	238.343	0.303	0.13
405	43_006	44_003	500	1310	110	109.743	0.559	0.88
406	44_005	43_006	1000	660	110	357.195	0.455	0.27
407	43_004	43_002	500	1240	110	100.198	0.510	0.74
408	44_001	44_002	400	590	110	18.527	0.147	0.10
409	44_002	54_007	400	810	110	45.135	0.359	0.50
410	44_003	44_004	500	360	110	61.489	0.313	0.30
411	45_001	44_004	500	1590	110	54.366	0.277	0.24
412	44_006	44_005	1000	490	110	366.303	0.466	0.28
413	44_003	44_002	400	1270	110	39.147	0.312	0.39
414	44_002	44_007	300	1170	110	3.431	0.049	0.02
415	45_002	44_007	300	1560	110	17.302	0.245	0.35
416	44_004	44_007	600	1250	110	103.193	0.365	0.32
417	44_007	54_002	600	1440	110	55.491	0.196	0.10
418	45_001	45_002	600	1220	110	79.573	0.281	0.20
419	45_002	45_003	600	1420	110	49.609	0.175	0.08
420	45_003	54_002	400	1700	110	36.240	0.288	0.33

2010(Hourly Max/Ежечный максимальный)

[Pipe]	Node(u) Верхний	Node(d) Нижний	Dia.(mm) диам.(мм)	Length(m) Длина(м)	C	Flow(l/s) Течение(л/с)	Velocity(m/s) Скорость(м/с)	Gradient(%) Градуc(%)
421	52_001	62_001	400	1030	110	45.915	0.365	0.52
422	52_004	52_005	400	1000	110	75.401	0.600	1.30
423	52_005	52_001	400	740	110	60.658	0.483	0.87
424	54_002	54_007	400	1620	110	23.298	0.185	0.15
425	62_001	63_001	300	1500	110	18.461	0.261	0.39
426	62_001	62_002	300	1390	110	12.711	0.180	0.20
427	62_002	72_001	300	2020	110	2.244	0.032	0.01
428	62_002	62_003	300	1760	110	8.223	0.116	0.09
429	62_003	73_001	300	4300	110	5.979	0.085	0.05
430	63_001	63_002	300	670	110	3.718	0.053	0.02
431	63_002	63_003	300	860	110	3.718	0.053	0.02
432	63_003	63_005	300	850	110	2.244	0.032	0.01

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2020(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
1 11_001	7.155	398.45	345.50	52.95		
2 12_029	3.647	398.64	346.00	52.64		
3 11_002	7.155	398.38	345.10	53.28		
4 11_005	1.925	398.34	344.70	53.64		
5 11_006	1.925	398.29	344.90	53.39		
6 11_007	1.925	398.29	345.80	52.49		
7 11_008	1.925	397.78	344.80	52.98		
8 21_003	1.925	397.61	345.00	52.61		
9 12_041	7.155	398.31	348.60	49.71		
10 12_003	4.780	398.57	349.80	48.77		
11 12_004	3.654	398.60	348.80	49.80		
12 12_005	4.780	398.41	349.50	48.91		
13 12_006	4.780	398.39	349.90	48.49		
14 12_007	4.780	398.39	350.50	47.89		
15 12_009	4.780	398.32	351.50	46.82		
16 12_010	4.780	398.34	350.80	47.54		
17 12_018	3.647	398.41	350.00	48.41		
18 12_019	3.647	398.46	349.80	48.66		
19 12_020	3.647	398.52	349.10	49.42		
20 12_021	3.647	398.52	350.50	48.02		
21 12_022	3.647	398.53	349.80	48.73		
22 12_027	3.647	398.77	346.50	52.27		
23 12_028	3.647	398.67	346.10	52.57		
24 12_030	3.647	398.63	347.30	51.33		
25 12_025	3.647	398.69	347.00	51.69		
26 12_032	3.647	398.66	349.00	49.66		
27 12_033	3.647	398.63	349.80	48.83		
28 12_034	3.647	398.86	348.20	50.66		
29 12_035	3.647	398.84	348.40	50.44		
30 12_002	4.773	399.35	349.30	50.05		
31 12_001	7.008	399.36	348.80	50.56		
32 22_052	7.052	399.41	350.00	49.41		
33 12_036	7.052	399.29	348.80	50.49		
34 12_037	7.052	399.07	348.20	50.87		
35 22_020	7.052	399.25	348.80	50.45		
36 12_038	3.647	398.67	349.50	49.17		
37 12_039	3.647	398.97	348.60	50.37		
38 22_012	3.647	398.99	346.80	52.19		
39 12_040	7.155	398.33	349.10	49.23		
40 12_031	3.647	398.71	349.10	49.61		
41 22_021	7.052	399.11	349.20	49.91		
42 12_050	7.052	399.20	348.90	50.30		
43 12_015	4.780	398.37	351.50	46.87		
44 22_001	3.647	398.95	346.10	52.85		
45 12_045	7.052	399.03	349.00	50.03		
46 12_046	3.647	398.87	349.00	49.87		
47 12_047	4.780	399.36	349.00	50.36		
48 23_005	7.052	399.51	351.80	47.71		
49 22_003	3.647	398.92	346.40	52.52		
50 13_001	4.780	396.50	355.10	41.40		
51 13_002	42.516	396.36	352.20	44.16	TETs-1(2)	
52 13_004	4.780	397.49	361.10	36.39		
53 13_006	4.780	396.81	353.50	43.31		
54 23_001	4.780	397.19	355.70	41.49		
55 13_013	4.780	397.81	362.00	35.81		
56 23_059	4.780	397.99	364.50	33.49		
57 13_008	37.736	396.34	352.20	44.14	TETs-1(1)	
58 21_004	7.155	398.37	345.34	53.03		
59 21_005	3.647	399.19	345.50	53.69		
60 22_002	3.647	399.32	346.50	52.82		

2020(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
61 21_007	3.647	398.98	345.40	53.58		
62 21_002	60.847	395.80	344.50	51.30		
63 21_008	60.844	395.79	344.00	51.79		
64 21_009	60.844	399.06	344.00	55.06		
65 31_003	2.558	399.24	342.00	57.24		
66 22_006	3.647	399.15	347.00	52.15		
67 22_007	3.647	399.16	346.50	52.66		
68 22_008	3.647	399.11	346.50	52.61		
69 22_009	3.647	399.15	346.00	53.15		
70 22_010	3.647	399.03	346.50	52.53		
71 22_011	3.647	399.02	346.60	52.42		
72 22_013	7.052	399.25	346.70	52.55	BPS/LWL:346.5,PH:65	
73 22_014	7.052	399.20	348.00	51.20		
74 22_015	7.052	399.27	349.30	49.97		
75 22_016	7.052	399.28	350.10	49.18		
76 22_017	7.052	399.28	350.00	49.28		
77 22_018	7.052	399.34	350.60	48.74		
78 22_019	7.052	399.45	350.60	48.85		
79 22_022	7.052	399.41	349.80	49.61		
80 22_023	7.052	399.44	350.60	48.84		
81 22_024	7.052	399.45	348.20	51.24		
82 22_025	7.052	399.40	347.00	52.40		
83 22_026	7.052	399.52	352.00	47.52		
84 22_027	7.052	399.54	351.00	48.54		
85 22_028	7.052	399.46	348.00	51.46		
86 22_029	7.052	399.51	347.50	52.01		
87 22_030	7.052	399.56	350.10	49.46		
88 22_032	6.822	399.72	350.00	49.72		
89 22_033	7.052	399.55	352.40	47.15		
90 22_034	6.808	399.73	350.20	49.53		
91 22_035	7.052	399.55	352.60	46.95		
92 23_017	6.808	399.77	350.00	49.77		
93 22_036	7.052	399.66	352.00	47.66		
94 23_018	7.052	399.68	352.60	47.08		
95 22_037	7.052	399.58	352.90	46.68		
96 23_009	7.052	399.61	353.50	46.11		
97 22_038	7.052	399.62	353.00	46.62		
98 23_007	7.052	399.56	351.80	47.76		
99 22_039	6.808	400.21	350.00	50.21		
100 32_010	6.808	400.23	350.10	50.13		
101 22_040	6.808	399.87	346.80	53.07		
102 22_042	6.808	399.68	349.20	50.48		
103 22_043	6.808	399.85	346.00	53.85		
104 22_044	6.808	400.19	348.00	52.19		
105 32_016	6.808	400.20	347.40	52.80		
106 22_045	6.808	400.20	349.50	50.70		
107 22_059	6.808	400.20	349.50	50.70		
108 22_046	6.808	400.09	348.20	51.89		
109 23_010	6.808	400.26	352.00	48.26		
110 22_047	6.808	400.06	345.90	54.16		
111 22_048	6.808	400.10	345.50	54.60		
112 22_049	6.808	400.21	346.00	54.21		
113 22_050	6.808	400.26	344.50	55.76		
114 22_051	6.808	400.07	347.00	53.07		
115 23_041	6.808	400.13	349.80	50.33		
116 22_041	6.808	399.63	350.00	49.63		
117 22_053	3.647	399.23	346.50	52.73		
118 32_008	6.808	400.35	344.50	55.85		
119 22_054	7.052	399.45	350.80	48.65		
120 22_055	6.808	399.88	347.00	52.88		

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2020(Hourly Max/Ежечный максимум)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
121 23_016	6.808	399.94	348.50	51.44		
122 22_056	3.647	399.53	346.50	53.03		
123 22_057	3.647	399.52	346.70	52.82		
124 22_058	6.808	400.18	346.00	54.18		
125 32_007	6.808	400.22	349.30	50.92		
126 23_004	9.731	397.75	360.50	37.25		
127 24_003	9.733	399.20	355.00	44.20		
128 23_006	7.052	399.56	352.50	47.06		
129 23_008	7.052	399.65	354.00	45.65		
130 23_011	6.808	400.38	354.00	46.38		
131 23_012	6.808	400.32	353.20	47.12		
132 23_013	6.808	400.24	354.00	46.24		
133 23_014	6.808	400.31	354.00	46.31		
134 23_015	6.808	400.09	352.00	48.09		
135 23_019	6.808	400.45	350.00	50.45		
136 33_036	6.808	400.41	348.00	52.41		
137 23_020	6.808	400.35	350.10	50.25		
138 33_048	6.808	400.31	350.20	50.11		
139 23_021	6.808	399.83	351.20	48.63		
140 23_022	7.052	399.76	351.80	47.96		
141 23_023	6.808	399.80	351.00	48.80		
142 23_024	6.808	399.89	349.70	50.19		
143 23_025	7.052	399.72	351.70	48.02		
144 23_026	5.296	399.84	353.70	46.14		
145 23_027	5.279	399.90	355.00	44.90		
146 23_028	5.279	399.99	354.50	45.49		
147 23_029	4.780	399.99	353.90	46.09		
148 23_030	5.279	399.84	354.20	45.64		
149 23_031	5.279	399.86	355.70	44.16		
150 23_033	5.279	400.37	356.10	44.27		
151 23_034	5.279	400.51	354.00	46.51		
152 23_079	5.247	400.55	350.52	50.03		
153 23_036	5.279	400.90	353.80	47.10		
154 23_037	5.279	400.90	354.80	46.10		
155 23_038	5.239	401.02	354.20	46.82		
156 23_039	5.279	400.81	355.50	45.31		
157 23_042	6.808	400.19	352.20	47.99		
158 23_045	5.279	400.17	356.50	43.67		
159 23_049	5.279	400.69	356.20	44.49		
160 23_050	5.279	400.86	355.20	45.66		
161 23_051	5.279	400.09	355.50	44.59		
162 23_053	9.733	400.91	354.40	46.51		
163 23_055	5.279	401.03	354.70	46.33		
164 23_056	5.279	401.12	354.40	46.72		
165 23_057	5.279	401.23	354.00	47.23		
166 23_058	5.279	401.33	353.60	47.73		
167 24_001	9.733	399.17	359.00	40.17		
168 24_006	5.279	401.44	353.10	48.34		
169 23_052	9.733	401.83	354.50	47.33		
170 23_060	5.279	401.83	355.00	46.83		
171 23_061	6.808	399.99	350.50	49.49		
172 23_062	5.279	400.23	355.80	44.43		
173 23_063	5.279	400.43	356.10	44.33		
174 23_064	5.279	400.16	356.00	44.16		
175 23_043	5.279	400.68	356.90	43.78		
176 23_065	5.279	400.75	356.30	44.45		
177 23_047	5.279	400.77	355.00	45.77		
178 23_078	4.780	397.67	359.90	37.77		
179 24_007	5.279	401.86	353.40	48.46		
180 23_066	5.279	400.77	356.10	44.67		

2020(Hourly Max/Ежечный максимум)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
181 23_040	6.808	400.23	352.50	47.73		
182 23_071	5.279	401.11	354.40	46.71		
183 23_073	5.279	401.21	354.00	47.21		
184 34_049	5.279	401.54	352.70	48.84		
185 23_074	5.239	401.23	353.30	47.93		
186 33_034	5.239	401.32	353.00	48.32		
187 23_075	5.239	401.06	354.40	46.66		
188 23_072	5.239	401.14	354.00	47.14		
189 23_076	5.239	400.85	353.00	47.85		
190 23_035	5.239	400.76	352.00	48.76		
191 23_077	5.239	400.68	351.00	49.68		
192 33_031	5.239	401.37	352.50	48.87		
193 33_040	5.239	400.41	348.00	52.41		
194 24_002	9.733	400.17	355.80	44.37		
195 24_004	9.733	400.97	351.90	49.07		
196 34_038	9.733	401.73	351.20	50.53		
197 24_008	-2240.255	402.00	353.00	49.00	LWL:352.0 + PH:50.0	
198 34_011	9.415	401.79	354.00	47.79		
199 25_001	483.121	401.47	360.00	41.47	TETs-2	
200 34_045	14.493	401.93	360.00	41.93		
201 34_048	5.279	401.74	351.20	50.54		
202 24_009	9.733	401.92	350.50	51.42		
203 30_001	2.556	399.23	342.00	57.23		
204 31_001	2.558	400.02	342.00	58.02		
205 31_002	2.558	400.04	342.00	58.04		
206 31_004	2.558	399.38	342.00	57.38		
207 32_013	2.558	400.36	344.00	56.36		
208 32_002	2.558	401.03	344.20	56.83		
209 32_003	2.558	401.28	345.10	56.18		
210 33_020	21.616	401.53	345.00	56.53		
211 32_004	2.558	400.70	343.50	57.20		
212 32_005	6.808	400.31	347.40	52.91		
213 32_006	6.808	400.24	346.90	53.34		
214 33_044	6.808	400.30	348.40	51.90		
215 32_009	2.558	400.48	346.00	54.48		
216 33_047	6.808	400.26	350.20	50.06		
217 32_015	2.558	400.58	343.50	57.08		
218 42_004	11.102	401.82	346.00	55.82		
219 33_003	20.138	401.48	349.10	52.38		
220 34_015	20.138	401.51	348.30	53.21		
221 33_004	20.138	401.50	349.30	52.20		
222 34_030	20.138	401.52	350.50	51.02		
223 33_005	5.239	401.53	348.10	53.43		
224 33_006	5.239	401.51	346.00	55.51		
225 33_007	21.616	401.51	346.00	55.51		
226 33_008	5.239	401.01	346.80	54.21		
227 33_009	5.239	401.09	347.40	53.69		
228 33_011	5.239	401.42	348.60	52.82		
229 33_012	5.239	400.94	346.00	54.94		
230 33_013	5.239	400.84	345.50	55.34		
231 33_014	5.239	400.74	345.50	55.24		
232 33_015	5.239	401.31	348.00	53.31		
233 33_016	5.239	401.18	348.10	53.08		
234 33_017	5.239	401.19	346.80	54.39		
235 33_019	5.239	400.82	346.00	54.82		
236 33_021	21.616	401.51	346.30	55.21		
237 33_029	5.239	401.54	348.40	53.14		
238 34_036	5.239	401.59	349.40	52.19		
239 33_030	5.239	401.34	350.90	50.44		
240 33_028	5.239	401.55	350.30	51.25		

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2020(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
241_34_035		5.239	401.59	350.30	51.29	
242_33_032		5.239	401.46	350.00	51.46	
243_33_033		5.239	401.51	350.00	51.51	
244_34_034		5.239	401.41	352.80	48.61	
245_33_037		6.808	400.41	346.80	53.61	
246_33_038		6.808	400.35	347.70	52.65	
247_33_039		6.808	400.37	348.40	51.91	
248_33_041		5.239	400.40	346.00	54.40	
249_33_042		6.808	400.41	345.90	54.51	
250_33_045		6.808	400.29	349.70	50.59	
251_33_046		6.808	400.29	349.20	51.09	
252_33_049		6.808	400.37	345.90	54.47	
253_33_050		5.239	401.00	347.30	53.70	
254_42_007		11.102	401.79	346.00	55.79	
255_34_001		9.421	401.24	357.90	43.34	
256_34_002		9.415	401.24	358.20	43.04	
257_34_003		9.415	401.34	357.80	43.54	
258_34_004		9.415	401.29	357.80	43.49	
259_34_006		9.415	401.28	359.20	42.08	
260_34_007		9.415	401.40	357.30	44.10	
261_34_008		9.415	401.68	354.10	47.58	
262_34_009		9.415	401.41	357.00	44.41	
263_35_002		9.415	401.18	359.60	41.58	
264_34_010		9.415	401.24	358.60	42.64	
265_35_001		9.415	401.18	360.30	40.88	
266_34_012		9.415	401.46	356.50	44.96	
267_34_013		20.138	401.66	353.80	47.86	
268_34_016		20.138	401.44	350.80	50.64	
269_34_017		20.138	401.28	351.00	50.28	
270_34_018		20.138	401.34	356.30	45.04	
271_34_019		20.138	401.53	351.80	49.73	
272_34_020		20.138	401.18	353.20	47.98	
273_34_021		20.138	401.07	353.00	48.07	
274_34_022		20.138	401.07	352.20	48.87	
275_34_023		20.138	401.59	353.00	48.59	
276_34_026		20.138	401.41	356.70	44.71	
277_34_031		20.138	401.66	353.90	47.76	
278_34_032		20.138	401.64	354.00	47.64	
279_34_033		5.239	401.51	351.80	49.71	
280_34_037		5.239	401.63	350.00	51.63	
281_34_039		5.279	401.64	350.50	51.14	
282_34_043		14.493	401.91	354.00	47.91	
283_44_006		11.102	401.91	349.00	52.91	
284_34_044		14.493	401.92	359.00	42.92	
285_34_046		14.493	401.96	361.00	40.96	
286_45_001		14.493	402.13	360.00	42.13	
287_35_003		21.860	401.12	365.10	36.02	
288_35_007		14.493	401.30	367.00	34.30	
289_35_008		21.860	401.12	366.00	35.12	
290_35_009		23.017	401.02	367.50	33.52	
291_45_005		23.017	400.69	372.50	28.19	
292_35_006		9.733	401.08	369.00	32.08	
293_36_004		12.245	400.63	367.50	33.13	
294_42_001		11.102	402.90	347.00	55.90	
295_52_002		19.496	404.42	348.00	56.42	
296_42_002		11.102	403.08	347.00	56.08	
297_42_003		19.494	404.01	348.00	56.01	
298_52_004		19.496	405.05	348.00	57.05	
299_43_001		19.496	404.50	348.00	56.50	
300_43_002		11.102	402.97	348.00	54.97	

2020(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
301_42_005		11.102	402.13	346.00	56.13	
302_42_006		11.102	402.58	347.00	55.58	
303_43_004		11.102	401.91	348.00	53.91	
304_53_001		19.496	406.12	350.00	56.12	
305_43_003		11.102	402.69	348.00	54.69	
306_44_001		11.102	402.24	350.00	52.24	
307_43_005		11.102	401.91	348.00	53.91	
308_43_006		11.102	401.91	348.00	53.91	
309_44_003		11.102	402.13	355.00	47.13	
310_44_005		11.102	401.91	347.00	54.91	
311_53_004		5.589	405.72	349.00	56.72	
312_44_002		11.102	402.16	353.00	49.16	
313_54_007		91.760	402.06	353.00	49.06	
314_44_004		14.493	402.21	356.00	46.21	
315_44_007		91.763	402.50	357.00	45.50	
316_45_002		14.493	402.52	363.00	39.52	
317_54_002		91.760	403.96	353.00	50.96	
318_45_003		22.565	403.13	357.00	46.13	
319_55_001		23.738	404.28	351.00	53.28	
320_45_004		22.565	400.13	354.00	46.13	
321_46_001		22.565	399.23	354.00	45.23	
322_46_002		22.565	398.73	354.00	44.73	
323_46_003		22.565	398.29	354.00	44.29	
324_52_001		19.496	400.63	349.50	51.13	
325_62_001		19.496	399.23	350.00	49.23	
326_52_003		19.496	404.68	348.00	56.68	
327_52_005		19.496	402.16	349.00	53.16	
328_53_002		5.589	406.58	350.00	56.58	
329_53_003		19.496	406.02	350.00	56.02	
330_53_005		5.589	406.55	350.00	56.55	
331_53_006		5.589	406.85	350.00	56.85	
332_53_007		5.589	407.54	350.00	57.54	
333_53_008		5.589	406.85	350.00	56.85	
334_63_004		5.589	406.82	350.00	56.82	
335_53_009		5.589	407.01	350.00	57.01	
336_54_003		7.388	407.95	350.00	57.95	
337_54_006		5.589	406.98	350.00	56.98	
338_53_010		5.589	407.23	350.00	57.23	
339_53_011		7.386	406.93	350.00	56.93	
340_64_001		7.388	406.48	350.50	55.98	
341_54_001		7.388	405.19	350.00	55.19	
342_55_002		23.738	404.63	351.00	53.63	
343_54_004		7.388	406.62	350.00	56.62	
344_54_005		7.388	405.44	350.00	55.44	
345_64_005		7.388	406.07	350.80	55.27	
346_64_004		7.388	405.36	350.20	55.16	
347_54_008		-1616.250	408.00	350.00	58.00	New No.2 WTP
348_56_001		15.313	404.15	351.00	53.15	
349_65_001		23.738	403.44	350.00	53.44	
350_63_001		19.496	396.15	350.00	46.15	
351_62_002		2.761	398.97	350.00	48.97	
352_72_001		2.761	398.95	351.00	47.95	
353_62_003		2.761	398.85	350.60	48.25	
354_73_001		4.245	398.74	352.00	46.74	
355_63_002		5.589	395.66	350.00	45.66	
356_63_003		7.388	395.26	350.50	44.76	
357_64_002		7.388	395.07	350.50	44.57	
358_63_005		2.761	395.25	350.50	44.75	
359_64_006		2.761	395.05	351.00	44.05	
360_64_003		7.388	405.52	350.50	55.02	

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2020(Hourly Max/Ежечный максимальный)

[Pipe]	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(V/s)	Velocity(m/s)	Gradient(%)
	Верхний	Нижний	диам.(мм)	Длина(м)		Течение(л/с)	Скорость(м/с)	Градус(%)
481	63_001	63_002	300	670	110	25.887	0.366	0.73
482	63_002	63_003	300	860	110	20.298	0.287	0.46
483	63_003	64_002	300	1500	110	10.149	0.144	0.13
484	63_003	63_005	300	850	110	2.761	0.039	0.01
485	64_002	64_006	300	1810	110	2.761	0.039	0.01
486	64_001	64_005	400	1070	110	38.902	0.310	0.38
487	64_005	64_003	200	1070	110	7.388	0.235	0.52

2030(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
	Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание
1	11_001	12.053	395.69	345.50	50.19	
2	12_029	5.237	396.01	346.00	50.01	
3	11_002	12.053	395.58	345.10	50.48	
4	11_005	1.989	395.53	344.70	50.83	
5	11_006	1.989	395.47	344.90	50.57	
6	11_007	1.989	395.49	345.80	49.69	
7	11_008	1.989	394.76	344.80	49.96	
8	21_003	1.989	394.52	345.00	49.52	
9	12_041	12.053	395.52	348.60	46.92	
10	12_003	4.971	396.14	349.80	46.34	
11	12_004	5.249	396.17	348.80	47.37	
12	12_005	4.971	395.87	349.50	46.37	
13	12_006	4.971	395.84	349.90	45.94	
14	12_007	4.971	395.77	350.50	45.27	
15	12_009	4.971	395.79	351.50	44.29	
16	12_010	4.971	395.80	350.80	45.00	
17	12_018	5.237	395.77	350.00	45.77	
18	12_019	5.237	395.84	349.80	46.04	
19	12_020	5.237	395.94	349.10	46.84	
20	12_021	5.237	395.97	350.50	45.47	
21	12_022	5.237	395.98	349.80	46.18	
22	12_027	5.237	396.25	346.50	49.75	
23	12_028	5.237	396.07	346.10	49.97	
24	12_030	5.237	396.08	347.30	48.78	
25	12_025	5.237	396.15	347.00	49.15	
26	12_032	5.237	396.13	349.00	47.13	
27	12_033	5.237	396.16	349.80	46.36	
28	12_034	5.237	396.62	348.20	48.42	
29	12_035	5.237	396.58	348.40	48.18	
30	12_002	4.964	397.52	349.30	48.22	
31	12_001	8.498	397.53	348.80	48.73	
32	22_052	8.550	397.61	350.00	47.61	
33	12_036	8.550	397.39	348.80	48.59	
34	12_037	8.550	396.96	348.20	48.76	
35	22_020	8.550	397.32	348.80	48.52	
36	12_038	5.237	396.25	349.50	46.75	
37	12_039	5.237	396.69	348.60	48.09	
38	22_012	5.237	396.71	346.80	49.91	
39	12_040	12.053	395.57	349.10	46.47	
40	12_031	5.237	396.22	349.10	47.12	
41	22_021	8.550	397.04	349.20	47.84	
42	12_050	8.550	397.24	348.90	48.34	
43	12_015	4.971	395.81	351.50	44.31	
44	22_001	5.237	396.46	346.10	50.36	
45	12_045	8.550	396.92	349.00	47.92	
46	12_046	5.237	396.51	349.00	47.51	
47	12_047	4.971	397.52	349.00	48.52	
48	23_005	8.550	397.79	351.80	45.99	
49	22_003	5.237	396.53	346.40	50.13	
50	13_001	4.971	396.36	355.10	41.26	
51	13_002	42.707	396.22	352.20	44.02	TETs-1(2)
52	13_004	4.971	397.36	361.10	36.26	
53	13_006	4.971	396.69	353.50	43.19	
54	23_001	4.971	397.07	355.70	41.37	
55	13_013	4.971	397.69	362.00	35.69	
56	23_059	4.971	397.88	364.50	33.38	
57	13_008	37.736	396.21	352.20	44.01	TETs-1(1)
58	21_004	12.053	395.42	345.34	50.08	
59	21_005	5.237	396.75	345.50	51.25	
60	22_002	5.237	397.08	346.50	50.58	

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2030(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
61	21_007	5.237	396.20	345.40	50.80	
62	21_002	68.333	392.26	344.50	47.76	
63	21_008	68.331	392.25	344.00	48.25	
64	21_009	68.331	396.20	344.00	52.20	
65	31_003	21.976	396.28	342.00	54.28	
66	22_006	5.237	396.87	347.00	49.87	
67	22_007	5.237	396.90	346.50	50.40	
68	22_008	5.237	396.84	346.50	50.34	
69	22_009	5.237	396.87	346.00	50.87	
70	22_010	5.237	396.75	346.50	50.25	
71	22_011	5.237	396.74	346.60	50.14	
72	22_013	8.550	397.23	346.70	50.53	BPS/LWL:346.5,PH:65
73	22_014	8.550	397.20	348.00	49.20	
74	22_015	8.550	397.32	349.30	48.02	
75	22_016	8.550	397.37	350.10	47.27	
76	22_017	8.550	397.37	350.00	47.37	
77	22_018	8.550	397.48	350.60	46.88	
78	22_019	8.550	397.64	350.60	47.04	
79	22_022	8.550	397.53	349.80	47.73	
80	22_023	8.550	397.58	350.60	46.98	
81	22_024	8.550	397.57	348.20	49.37	
82	22_025	8.550	397.51	347.00	50.51	
83	22_026	8.550	397.75	352.00	45.75	
84	22_027	8.550	397.83	351.00	46.83	
85	22_028	8.550	397.58	348.00	49.58	
86	22_029	8.550	397.65	347.50	50.15	
87	22_030	8.550	397.72	350.10	47.62	
88	22_032	7.591	398.07	350.00	48.07	
89	22_033	8.550	397.82	352.40	45.42	
90	22_034	7.575	398.07	350.20	47.87	
91	22_035	8.550	397.83	352.60	45.23	
92	23_017	7.575	398.19	350.00	48.19	
93	22_036	8.550	398.00	352.00	46.00	
94	23_018	8.550	398.06	352.60	45.46	
95	22_037	8.550	397.89	352.90	44.99	
96	23_009	8.550	397.96	353.50	44.46	
97	22_038	8.550	397.96	353.00	44.96	
98	23_007	8.550	397.86	351.80	46.06	
99	22_039	7.575	398.84	350.00	48.84	
100	32_010	7.575	398.87	350.10	48.77	
101	22_040	7.575	398.28	346.80	51.48	
102	22_042	7.575	397.93	349.20	48.73	
103	22_043	7.575	398.20	346.00	52.20	
104	22_044	7.575	398.76	348.00	50.76	
105	32_016	7.575	398.78	347.40	51.38	
106	22_045	7.575	398.80	349.50	49.30	
107	22_059	7.575	398.80	349.50	49.30	
108	22_046	7.575	398.63	348.20	50.43	
109	23_010	7.575	398.97	352.00	46.97	
110	22_047	7.575	398.54	345.90	52.64	
111	22_048	7.575	398.55	345.50	53.05	
112	22_049	7.575	398.63	346.00	52.63	
113	22_050	7.575	398.68	344.50	54.18	
114	22_051	7.575	398.58	347.00	51.58	
115	23_041	7.575	398.75	349.80	48.95	
116	22_041	7.575	397.81	350.00	47.81	
117	22_053	5.237	397.18	346.50	50.68	
118	32_008	7.575	398.77	344.50	54.27	
119	22_054	8.550	397.69	350.80	46.89	
120	22_055	7.575	398.31	347.00	51.31	

2030(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
121	23_016	7.575	398.45	348.50	49.95	
122	22_056	5.237	397.53	346.50	51.03	
123	22_057	5.237	397.51	346.70	50.81	
124	22_058	7.575	398.59	346.00	52.59	
125	32_007	7.575	398.84	349.30	49.54	
126	23_004	9.929	397.64	360.50	37.14	
127	24_003	9.929	399.12	355.00	44.12	
128	23_006	8.550	397.88	352.50	45.38	
129	23_008	8.550	398.02	354.00	44.02	
130	23_011	7.575	399.23	354.00	45.23	
131	23_012	7.575	399.10	353.20	45.90	
132	23_013	7.575	398.97	354.00	44.97	
133	23_014	7.575	399.09	354.00	45.09	
134	23_015	7.575	398.73	352.00	46.73	
135	23_019	7.575	399.35	350.00	49.35	
136	33_036	7.575	399.29	348.00	51.29	
137	23_020	7.575	399.16	350.10	49.06	
138	33_048	7.575	399.08	350.20	48.88	
139	23_021	7.575	398.31	351.20	47.11	
140	23_022	8.550	398.21	351.80	46.41	
141	23_023	7.575	398.25	351.00	47.25	
142	23_024	7.575	398.40	349.70	48.70	
143	23_025	8.550	398.13	351.70	46.43	
144	23_026	5.930	398.36	353.70	44.66	
145	23_027	5.930	398.45	355.00	43.45	
146	23_028	5.930	398.61	354.50	44.11	
147	23_029	4.971	398.62	353.90	44.72	
148	23_030	5.930	398.36	354.20	44.16	
149	23_031	5.930	398.40	355.70	42.70	
150	23_033	5.930	399.20	356.10	43.10	
151	23_034	5.930	399.46	354.00	45.46	
152	23_079	5.902	399.53	350.52	49.01	
153	23_036	5.930	400.16	353.80	46.36	
154	23_037	5.930	400.16	354.80	45.36	
155	23_038	5.893	400.36	354.20	46.16	
156	23_039	5.930	400.00	355.50	44.50	
157	23_042	7.575	398.87	352.20	46.67	
158	23_045	5.930	398.92	356.50	42.42	
159	23_049	5.930	399.79	356.20	43.59	
160	23_050	5.930	400.08	355.20	44.88	
161	23_051	5.930	398.79	355.50	43.29	
162	23_053	9.929	400.17	354.40	45.77	
163	23_055	5.930	400.37	354.70	45.67	
164	23_056	5.930	400.53	354.40	46.13	
165	23_057	5.930	400.71	354.00	46.71	
166	23_058	5.930	400.88	353.60	47.28	
167	24_001	9.929	399.09	359.00	40.09	
168	24_006	5.930	401.07	353.10	47.97	
169	23_052	9.929	401.77	354.50	47.27	
170	23_060	5.930	401.77	355.00	46.77	
171	23_061	7.575	398.55	350.50	48.05	
172	23_062	5.930	399.00	355.80	43.20	
173	23_063	5.930	399.32	356.10	43.22	
174	23_064	5.930	398.88	356.00	42.88	
175	23_043	5.930	399.78	356.90	42.88	
176	23_065	5.930	399.89	356.30	43.59	
177	23_047	5.930	399.93	355.00	44.93	
178	23_078	4.971	397.55	359.90	37.65	
179	24_007	5.930	401.80	353.40	48.40	
180	23_066	5.930	399.94	356.10	43.84	

A.3-16

2030(Hourly Max/Ежечный максимумный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Номер	Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание
181	23_040	7.575	398.94	352.50	46.44	
182	23_071	5.930	400.52	354.40	46.12	
183	23_073	5.930	400.68	354.00	46.68	
184	34_049	5.930	401.23	352.70	48.53	
185	23_074	5.893	400.71	353.30	47.41	
186	33_034	5.893	400.86	353.00	47.86	
187	23_075	5.893	400.43	354.40	46.03	
188	23_072	5.893	400.56	354.00	46.56	
189	23_076	5.893	400.07	353.00	47.07	
190	23_035	5.893	399.91	352.00	47.91	
191	23_077	5.893	399.76	351.00	48.76	
192	33_031	5.893	400.95	352.50	48.45	
193	33_040	5.893	399.31	348.00	51.31	
194	24_002	9.929	400.11	355.80	44.31	
195	24_004	9.929	400.94	351.90	49.04	
196	34_038	9.929	401.55	351.20	50.35	
197	24_008	-2831.510	402.00	353.00	49.00	LWL:352.0 + PH:50.0
198	34_011	10.574	401.69	354.00	47.69	
199	25_001	495.191	401.44	360.00	41.44	TETs-2
200	34_045	16.279	401.54	360.00	41.54	
201	34_048	5.930	401.57	351.20	50.37	
202	24_009	9.929	401.88	350.50	51.38	
203	30_001	21.973	395.81	342.00	53.81	
204	31_001	21.976	395.90	342.00	53.90	
205	31_002	21.976	397.31	342.00	55.31	
206	31_004	21.976	396.41	342.00	54.41	
207	32_013	21.976	398.08	344.00	54.08	
208	32_002	21.976	399.60	344.20	55.40	
209	32_003	21.976	400.09	345.10	54.99	
210	33_020	24.273	400.70	345.00	55.70	
211	32_004	21.976	399.07	343.50	55.57	
212	32_005	7.575	399.02	347.40	51.62	
213	32_006	7.575	398.82	346.90	51.92	
214	33_044	7.575	399.04	348.40	50.64	
215	32_009	21.976	398.87	346.00	52.87	
216	33_047	7.575	398.97	350.20	48.77	
217	32_015	21.976	398.67	343.50	55.17	
218	42_004	11.700	400.99	346.00	54.99	
219	33_003	22.653	401.04	349.10	51.94	
220	34_015	22.653	401.04	348.30	52.74	
221	33_004	22.653	401.09	349.30	51.79	
222	34_030	22.653	401.23	350.50	50.73	
223	33_005	5.893	401.09	348.10	52.99	
224	33_006	5.893	400.84	346.00	54.84	
225	33_007	24.273	400.73	346.00	54.73	
226	33_008	5.893	400.40	346.80	53.60	
227	33_009	5.893	400.52	347.40	53.12	
228	33_011	5.893	400.97	348.60	52.37	
229	33_012	5.893	400.29	346.00	54.29	
230	33_013	5.893	400.12	345.50	54.62	
231	33_014	5.893	399.94	345.50	54.44	
232	33_015	5.893	400.84	348.00	52.84	
233	33_016	5.893	400.65	348.10	52.55	
234	33_017	5.893	400.67	346.80	53.87	
235	33_019	5.893	400.07	346.00	54.07	
236	33_021	24.273	400.71	346.30	54.41	
237	33_029	5.893	401.12	348.40	52.72	
238	34_036	5.893	401.25	349.40	51.85	
239	33_030	5.893	400.89	350.90	49.99	
240	33_028	5.893	401.23	350.30	50.93	

2030(Hourly Max/Ежечный максимумный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Номер	Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание
241	34_035	5.893	401.31	350.30	51.01	
242	33_032	5.893	401.10	350.00	51.10	
243	33_033	5.893	401.17	350.00	51.17	
244	34_034	5.893	401.01	352.80	48.21	
245	33_037	7.575	399.30	346.80	52.50	
246	33_038	7.575	399.17	347.70	51.47	
247	33_039	7.575	399.09	348.40	50.69	
248	33_041	5.893	399.29	346.00	53.29	
249	33_042	7.575	399.30	345.90	53.40	
250	33_045	7.575	399.04	349.70	49.34	
251	33_046	7.575	399.05	349.20	49.85	
252	33_049	7.575	399.24	345.90	53.34	
253	33_050	5.893	400.38	347.30	53.08	
254	42_007	11.700	400.99	346.00	54.99	
255	34_001	10.580	400.90	357.90	43.00	
256	34_002	10.574	400.91	358.20	42.71	
257	34_003	10.574	401.05	357.80	43.25	
258	34_004	10.574	400.98	357.80	43.18	
259	34_006	10.574	400.98	359.20	41.78	
260	34_007	10.574	401.15	357.30	43.85	
261	34_008	10.574	401.53	354.10	47.43	
262	34_009	10.574	401.16	357.00	44.16	
263	35_002	10.574	400.81	359.60	41.21	
264	34_010	10.574	400.91	358.60	42.31	
265	35_001	10.574	400.81	360.30	40.51	
266	34_012	10.574	401.23	356.50	44.73	
267	34_013	22.653	401.50	353.80	47.71	
268	34_016	22.653	400.95	350.80	50.15	
269	34_017	22.653	401.00	351.00	50.00	
270	34_018	22.653	401.07	356.30	44.77	
271	34_019	22.653	401.28	351.80	49.48	
272	34_020	22.653	400.86	353.20	47.66	
273	34_021	22.653	400.72	353.00	47.72	
274	34_022	22.653	400.73	352.20	48.53	
275	34_023	22.653	401.39	353.00	48.39	
276	34_026	22.653	401.16	356.70	44.46	
277	34_031	22.653	401.50	353.90	47.60	
278	34_032	22.653	401.46	354.00	47.46	
279	34_033	5.893	401.18	351.80	49.38	
280	34_037	5.893	401.37	350.00	51.37	
281	34_039	5.930	401.38	350.50	50.88	
282	34_043	16.279	401.45	354.00	47.45	
283	44_006	11.700	401.41	349.00	52.41	
284	34_044	16.279	401.50	359.00	42.50	
285	34_046	16.279	401.52	361.00	40.52	
286	45_001	16.279	401.54	360.00	41.54	
287	35_003	24.549	400.66	365.10	35.56	
288	35_007	16.279	400.81	367.00	33.81	
289	35_008	24.549	400.66	366.00	34.66	
290	35_009	25.302	400.56	367.50	33.06	
291	45_005	25.302	400.17	372.50	27.67	
292	35_006	9.929	400.62	369.00	31.62	
293	36_004	13.461	400.09	367.50	32.59	
294	42_001	11.700	402.17	347.00	55.17	
295	52_002	30.310	403.84	348.00	55.84	
296	42_002	11.700	402.38	347.00	55.38	
297	42_003	30.307	403.28	348.00	55.28	
298	52_004	30.310	404.58	348.00	56.58	
299	43_001	30.310	403.85	348.00	55.85	
300	43_002	11.700	402.32	348.00	54.32	

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2030(Hourly Max/Ежечный максимальный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
	Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание
301	42_005	11.700	401.33	346.00	55.33	
302	42_006	11.700	401.82	347.00	54.82	
303	43_004	11.700	401.36	348.00	53.36	
304	53_001	30.310	405.68	350.00	55.68	
305	43_003	11.700	402.03	348.00	54.03	
306	44_001	11.700	401.56	350.00	51.56	
307	43_005	11.700	401.37	348.00	53.37	
308	43_006	11.700	401.39	348.00	53.39	
309	44_003	11.700	401.49	355.00	46.49	
310	44_005	11.700	401.40	347.00	54.40	
311	53_004	7.305	405.19	349.00	56.19	
312	44_002	11.700	401.48	353.00	48.48	
313	54_007	103.065	401.28	353.00	48.28	
314	44_004	16.279	401.56	356.00	45.56	
315	44_007	103.068	401.79	357.00	44.79	
316	45_002	16.279	401.84	363.00	38.84	
317	54_002	103.065	403.20	353.00	50.20	
318	45_003	25.346	402.36	357.00	45.36	
319	55_001	26.662	403.54	351.00	52.54	
320	45_004	25.346	398.64	354.00	44.64	
321	46_001	25.346	397.52	354.00	43.52	
322	46_002	25.346	396.89	354.00	42.89	
323	46_003	25.346	396.36	354.00	42.36	
324	52_001	30.310	402.79	349.50	53.29	
325	62_001	30.310	402.46	350.00	52.46	
326	52_003	30.310	404.13	348.00	56.13	
327	52_005	30.310	403.53	349.00	54.53	
328	53_003	30.310	404.86	350.00	54.86	
329	53_002	7.304	406.21	350.00	56.21	
330	53_005	7.305	406.17	350.00	56.17	
331	53_006	7.305	406.53	350.00	56.53	
332	53_007	7.305	407.40	350.00	57.40	
333	53_008	7.305	405.18	350.00	55.18	
334	63_004	7.305	404.35	350.00	54.35	
335	53_009	7.305	405.23	350.00	55.23	
336	54_003	16.705	407.93	350.00	57.93	
337	54_006	7.305	406.68	350.00	56.68	
338	53_010	7.305	406.99	350.00	56.99	
339	53_011	16.703	405.01	350.00	55.01	
340	63_003	16.705	403.93	350.50	53.43	
341	64_001	16.705	404.51	350.50	54.01	
342	54_001	16.705	404.48	350.00	54.48	
343	55_002	26.660	403.92	351.00	52.92	
344	54_004	16.705	406.22	350.00	56.22	
345	54_005	16.705	404.34	350.00	54.34	
346	64_005	16.705	404.49	350.80	53.69	
347	64_004	16.705	403.64	350.20	53.44	
348	54_008	-1901.507	408.00	350.00	58.00	New No.2 WTP
349	56_001	17.177	403.37	351.00	52.37	
350	65_001	26.660	403.37	350.00	53.37	
351	63_001	30.310	402.72	350.00	52.72	
352	62_002	3.604	402.01	350.00	52.01	
353	72_001	3.604	401.97	351.00	50.98	
354	62_003	3.604	401.81	350.60	51.21	
355	73_001	5.898	401.61	352.00	49.61	
356	63_002	7.305	403.92	350.00	53.92	
357	64_002	16.705	403.84	350.50	53.34	
358	63_005	3.604	403.91	350.50	53.41	
359	64_006	3.604	403.80	351.00	52.80	
360	64_003	16.705	403.66	350.50	53.16	

2030(Hourly Max/Ежечный максимальный)

[Pipe]	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(l/s)	Velocity(m/s)	Gradient(‰)
	Верхний	Нижний	Диам.(мм)	Длина(м)		Течение(л/с)	Скорость(м/с)	Градиент(‰)
1	12_029	11_001	400	760	110	40.816	0.325	0.42
2	11_001	11_002	400	490	110	28.763	0.229	0.22
3	11_005	11_006	400	880	110	14.721	0.117	0.06
4	11_007	11_006	300	220	110	6.384	0.090	0.05
5	11_008	21_003	300	700	110	17.127	0.242	0.34
6	11_002	11_005	400	680	110	16.710	0.133	0.08
7	11_006	11_008	300	1720	110	19.116	0.270	0.42
8	12_041	11_007	400	1630	110	8.373	0.067	0.02
9	12_004	12_003	300	970	110	4.971	0.070	0.03
10	12_004	12_005	300	320	110	29.457	0.417	0.92
11	12_006	12_007	200	330	110	4.602	0.146	0.21
12	12_010	12_009	300	400	110	4.971	0.070	0.03
13	12_005	12_006	300	140	110	14.544	0.206	0.25
14	12_005	12_010	300	590	110	9.942	0.141	0.12
15	12_019	12_018	300	50	110	38.084	0.539	1.49
16	12_020	12_019	300	140	110	25.611	0.362	0.71
17	12_021	12_019	300	340	110	17.711	0.251	0.36
18	12_022	12_021	300	150	110	7.493	0.106	0.07
19	12_027	12_028	400	290	110	51.290	0.408	0.64
20	12_028	12_029	400	120	110	46.053	0.366	0.52
21	12_025	12_030	300	450	110	11.005	0.156	0.15
22	12_032	12_030	300	170	110	16.264	0.230	0.31
23	12_030	12_020	300	250	110	22.032	0.312	0.54
24	12_022	12_020	300	340	110	8.816	0.125	0.10
25	12_033	12_022	300	360	110	21.546	0.305	0.52
26	12_034	12_035	300	110	110	15.867	0.224	0.29
27	12_002	12_035	300	470	110	44.501	0.630	1.98
28	22_052	12_001	700	410	110	118.515	0.308	0.20
29	12_001	12_036	300	120	110	32.608	0.461	1.12
30	22_020	12_037	300	330	110	32.370	0.458	1.10
31	12_038	12_033	300	110	110	26.783	0.379	0.78
32	12_034	12_038	300	340	110	32.020	0.453	1.08
33	22_012	12_039	400	510	110	11.537	0.092	0.04
34	12_018	12_040	400	720	110	32.479	0.258	0.27
35	12_031	12_032	300	180	110	21.501	0.304	0.52
36	22_021	12_037	300	380	110	13.421	0.190	0.22
37	12_001	12_050	300	200	110	37.510	0.531	1.45
38	12_006	12_015	300	730	110	4.971	0.070	0.03
39	12_035	12_004	300	140	110	55.132	0.780	2.95
40	12_004	12_021	300	730	110	15.454	0.219	0.28
41	12_027	12_025	300	350	110	16.242	0.230	0.31
42	22_001	12_027	300	770	110	14.921	0.211	0.26
43	12_037	12_045	300	240	110	11.565	0.164	0.16
44	12_045	12_034	300	110	110	53.124	0.752	2.75
45	12_037	12_039	300	370	110	25.675	0.363	0.72
46	12_046	12_031	300	370	110	26.738	0.378	0.77
47	12_039	12_046	300	170	110	31.975	0.452	1.08
48	12_001	12_047	600	120	110	39.898	0.141	0.06
49	12_036	22_020	300	140	110	21.746	0.308	0.53
50	22_052	12_036	300	530	110	18.837	0.266	0.40
51	23_005	12_047	300	1080	110	14.538	0.206	0.25
52	12_018	12_007	300	630	110	0.369	0.005	0.00
53	22_003	12_027	400	350	110	57.847	0.460	0.79
54	12_040	12_041	400	440	110	20.426	0.163	0.12
55	12_050	12_045	300	130	110	50.109	0.709	2.47
56	12_036	12_050	300	310	110	21.149	0.299	0.50
57	12_047	12_002	600	80	110	49.465	0.175	0.08
58	13_001	13_002	400	320	110	42.707	0.340	0.45
59	13_004	13_001	400	1800	110	47.678	0.379	0.55
60	23_001	13_006	400	840	110	42.707	0.340	0.45

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2030(Hourly Max/Ежечный максимальный)

[Pipe]	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(l/s)	Velocity(m/s)	Gradient(‰)
	Верхний	Нижний	диам.(мм)	Длина(м)		Течение(л/с)	Скорость(м/с)	Градуус(‰)
421	44_005	43_006	1000	660	110	74.871	0.095	0.01
422	53_004	43_001	300	980	110	36.373	0.515	1.37
423	43_002	43_004	500	1240	110	102.483	0.522	0.77
424	44_001	44_002	400	590	110	22.738	0.181	0.14
425	44_002	54_007	400	810	110	31.174	0.248	0.25
426	44_004	44_003	500	360	110	47.219	0.240	0.18
427	44_004	45_001	500	1590	110	12.103	0.062	0.01
428	44_006	44_005	1000	490	110	86.571	0.110	0.02
429	44_003	44_002	400	1270	110	5.296	0.042	0.01
430	44_007	44_002	300	1170	110	14.841	0.210	0.26
431	45_002	44_007	300	1560	110	4.869	0.069	0.03
432	44_007	44_004	600	1250	110	75.600	0.267	0.18
433	54_002	44_007	600	1440	110	188.640	0.667	0.98
434	45_002	45_001	600	1220	110	89.463	0.316	0.25
435	45_003	45_002	600	1420	110	110.611	0.391	0.37
436	54_002	45_003	400	1700	110	44.843	0.357	0.50
437	55_001	45_003	600	1160	110	192.497	0.681	1.02
438	45_003	45_004	400	1660	110	101.384	0.807	2.24
439	45_004	46_001	400	850	110	76.038	0.605	1.32
440	46_001	46_002	300	890	110	25.346	0.359	0.70
441	46_001	46_003	300	1660	110	25.346	0.359	0.70
442	52_001	62_001	400	1030	110	35.154	0.280	0.32
443	52_003	52_002	800	300	110	400.745	0.797	0.97
444	52_004	52_003	800	400	110	431.055	0.858	1.11
445	53_001	52_004	1000	1570	110	603.675	0.769	0.70
446	52_004	52_005	400	1000	110	67.262	0.535	1.05
447	52_005	52_001	400	740	110	65.464	0.521	1.00
448	53_003	52_005	300	1530	110	28.512	0.403	0.87
449	53_002	53_001	1200	970	110	853.547	0.755	0.55
450	53_001	53_003	400	1000	110	58.822	0.468	0.82
451	53_005	53_004	300	510	110	43.678	0.618	1.92
452	53_002	53_005	300	480	110	8.301	0.117	0.09
453	53_006	53_002	1200	560	110	869.152	0.768	0.57
454	53_007	53_006	1200	1430	110	907.763	0.803	0.61
455	53_006	53_008	300	1300	110	31.306	0.443	1.03
456	53_008	63_004	300	840	110	30.510	0.432	0.99
457	53_009	63_004	300	1340	110	24.446	0.346	0.65
458	53_007	53_009	300	1450	110	38.259	0.541	1.50
459	53_009	53_008	300	860	110	6.509	0.092	0.06
460	54_003	53_007	1200	710	110	1010.619	0.894	0.75
461	54_006	53_005	400	1140	110	42.682	0.340	0.45
462	53_010	54_006	400	510	110	49.987	0.398	0.61
463	53_007	53_010	400	530	110	57.292	0.456	0.78
464	54_003	53_011	400	1480	110	94.652	0.753	1.97
465	53_011	63_003	300	1220	110	28.849	0.408	0.89
466	53_011	64_001	400	860	110	49.100	0.391	0.59
467	54_001	55_002	800	1130	110	279.003	0.555	0.50
468	54_001	54_002	800	1270	110	408.439	0.813	1.01
469	54_003	54_004	900	910	110	779.530	1.225	1.88
470	54_004	54_001	900	1060	110	725.285	1.140	1.65
471	64_005	54_005	400	1300	110	19.915	0.158	0.11
472	54_001	54_005	400	1110	110	21.138	0.168	0.12
473	54_005	64_004	300	1080	110	24.348	0.344	0.65
474	54_002	54_007	400	1620	110	71.891	0.572	1.19
475	54_004	64_005	300	1200	110	37.540	0.531	1.45
476	54_008	54_003	1500	80	110	1901.507	1.076	0.81
477	55_001	56_001	400	1960	110	17.572	0.140	0.09
478	55_002	55_001	800	1030	110	236.731	0.471	0.37
479	55_002	65_001	300	1930	110	15.612	0.221	0.29
480	56_001	65_001	300	1980	110	0.395	0.006	0.00

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2030(Hourly Max/Ежечный максимальный)

[Pipe]	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(l/s)	Velocity(m/s)	Gradient(‰)
	Верхний	Нижний	диам.(мм)	Длина(м)		Течение(л/с)	Скорость(м/с)	Градуус(‰)
481	63_001	62_001	300	1500	110	11.866	0.168	0.17
482	62_001	62_002	300	1390	110	16.710	0.236	0.32
483	62_002	72_001	300	2020	110	3.604	0.051	0.02
484	62_002	62_003	300	1760	110	9.502	0.134	0.11
485	62_003	73_001	300	4300	110	5.898	0.083	0.05
486	63_002	63_001	300	670	110	42.176	0.597	1.80
487	63_003	63_002	300	860	110	1.831	0.026	0.01
488	63_003	64_002	300	1500	110	6.710	0.095	0.06
489	63_003	63_005	300	850	110	3.604	0.051	0.02
490	63_004	63_002	300	190	110	47.651	0.674	2.25
491	64_001	64_002	300	1050	110	24.127	0.341	0.64
492	64_002	64_006	300	1810	110	3.604	0.051	0.02
493	64_002	64_003	300	1290	110	10.528	0.149	0.14
494	64_003	64_004	300	1460	110	3.010	0.043	0.01
495	64_001	64_005	400	1070	110	8.267	0.066	0.02
496	64_005	64_003	200	1070	110	9.187	0.292	0.77
497	64_004	65_001	300	1960	110	10.653	0.151	0.14

2030(Fire Fighting/Противопожарный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
1 11_001	12.053	392.74	345.50	47.24		
2 12_029	5.237	393.60	346.00	47.60		
3 11_002	12.053	392.35	345.10	47.25		
4 11_005	1.989	392.01	344.70	47.31		
5 11_006	1.989	391.59	344.90	46.69		
6 11_007	96.989	391.02	345.80	45.22		
7 11_008	1.989	391.80	344.80	47.00		
8 21_003	1.989	391.92	345.00	46.92		
9 12_041	12.053	391.84	348.60	43.24		
10 12_003	4.971	393.88	349.80	44.08		
11 12_004	5.249	393.91	348.80	45.11		
12 12_005	4.971	393.47	349.50	43.97		
13 12_006	4.971	393.40	349.90	43.50		
14 12_007	4.971	393.02	350.50	42.52		
15 12_009	4.971	393.39	351.50	41.89		
16 12_010	4.971	393.40	350.80	42.60		
17 12_018	5.237	392.99	350.00	42.99		
18 12_019	5.237	393.21	349.80	43.41		
19 12_020	5.237	393.48	349.10	44.38		
20 12_021	5.237	393.52	350.50	43.02		
21 12_022	5.237	393.54	349.80	43.74		
22 12_027	5.237	394.17	346.50	47.67		
23 12_028	5.237	393.75	346.10	47.65		
24 12_030	5.237	393.84	347.30	46.54		
25 12_025	5.237	393.99	347.00	46.99		
26 12_032	5.237	393.96	349.00	44.96		
27 12_033	5.237	393.89	349.80	44.09		
28 12_034	5.237	394.59	348.20	46.39		
29 12_035	5.237	394.52	348.40	46.12		
30 12_002	99.964	395.66	349.30	46.36		
31 12_001	8.498	395.77	348.80	46.97		
32 22_052	8.550	395.98	350.00	45.98		
33 12_036	8.550	395.71	348.80	46.91		
34 12_037	8.550	395.24	348.20	47.04		
35 22_020	8.550	395.70	348.80	46.90		
36 12_038	5.237	394.03	349.50	44.53		
37 12_039	5.237	394.95	348.60	46.35		
38 22_012	5.237	395.00	346.80	48.20		
39 12_040	12.053	392.19	349.10	43.09		
40 12_031	5.237	394.15	349.10	45.05		
41 22_021	8.550	395.43	349.20	46.23		
42 12_050	8.550	395.48	348.90	46.58		
43 12_015	4.971	393.38	351.50	41.88		
44 22_001	5.237	394.72	346.10	48.62		
45 12_045	8.550	395.10	349.00	46.10		
46 12_046	5.237	394.65	349.00	45.65		
47 12_047	4.971	395.71	349.00	46.71		
48 23_005	8.550	396.39	351.80	44.59		
49 22_003	5.237	394.70	346.40	48.30		
50 13_001	4.971	396.36	355.10	41.26		
51 13_002	42.707	396.22	352.20	44.02	ТЕТь-1(2)	
52 13_004	4.971	397.36	361.10	36.26		
53 13_006	4.971	396.69	353.50	43.19		
54 23_001	4.971	397.07	355.70	41.37		
55 13_013	4.971	397.69	362.00	35.69		
56 23_059	4.971	397.88	364.50	33.38		
57 13_008	37.736	396.21	352.20	44.01	ТЕТь-1(1)	
58 21_004	12.053	393.64	345.34	48.30		
59 21_005	5.237	395.38	345.50	49.88		
60 22_002	5.237	395.78	346.50	49.28		

2030(Fire Fighting/Противопожарный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
61 21_007	5.237	394.76	345.40	49.36		
62 21_002	68.333	389.96	344.50	45.46		
63 21_008	68.331	389.97	344.00	45.97		
64 21_009	68.331	394.78	344.00	50.78		
65 31_003	21.976	394.92	342.00	52.92		
66 22_006	5.237	395.38	347.00	48.38		
67 22_007	5.237	395.40	346.50	48.90		
68 22_008	5.237	395.29	346.50	48.79		
69 22_009	5.237	395.38	346.00	49.38		
70 22_010	5.237	395.09	346.50	48.59		
71 22_011	5.237	395.07	346.60	48.47		
72 22_013	8.550	395.81	346.70	49.11	BPS/LWL:346.5,PH:65	
73 22_014	8.550	395.70	348.00	47.70		
74 22_015	8.550	395.87	349.30	46.57		
75 22_016	8.550	395.87	350.10	45.77		
76 22_017	8.550	395.86	350.00	45.86		
77 22_018	8.550	396.01	350.60	45.41		
78 22_019	8.550	396.36	350.60	45.76		
79 22_022	8.550	396.25	349.80	46.45		
80 22_023	8.550	396.34	350.60	45.74		
81 22_024	8.550	396.34	348.20	48.14		
82 22_025	8.550	396.24	347.00	49.24		
83 22_026	8.550	396.55	352.00	44.55		
84 22_027	8.550	396.55	351.00	45.55		
85 22_028	8.550	396.36	348.00	48.36		
86 22_029	8.550	396.48	347.50	48.98		
87 22_030	8.550	396.58	350.10	46.48		
88 22_032	7.591	397.03	350.00	47.03		
89 22_033	8.550	396.64	352.40	44.24		
90 22_034	7.575	397.04	350.20	46.84		
91 22_035	8.550	396.65	352.60	44.05		
92 23_017	7.575	397.17	350.00	47.17		
93 22_036	8.550	396.91	352.00	44.91		
94 23_018	8.550	396.96	352.60	44.36		
95 22_037	8.550	396.69	352.90	43.79		
96 23_009	8.550	396.74	353.50	43.24		
97 22_038	8.550	396.80	353.00	43.80		
98 23_007	8.550	396.56	351.80	44.76		
99 22_039	7.575	398.13	350.00	48.13		
100 32_010	7.575	398.17	350.10	48.07		
101 22_040	7.575	397.34	346.80	50.54		
102 22_042	7.575	396.87	349.20	47.67		
103 22_043	7.575	397.24	346.00	51.24		
104 22_044	7.575	398.03	348.00	50.03		
105 32_016	7.575	398.06	347.40	50.66		
106 22_045	7.575	398.08	349.50	48.58		
107 22_059	7.575	398.08	349.50	48.58		
108 22_046	7.575	397.83	348.20	49.63		
109 23_010	7.575	398.29	352.00	46.29		
110 22_047	7.575	397.70	345.90	51.80		
111 22_048	7.575	397.73	345.50	52.23		
112 22_049	7.575	397.84	346.00	51.84		
113 22_050	7.575	397.90	344.50	53.40		
114 22_051	7.575	397.76	347.00	50.76		
115 23_041	7.575	397.97	349.80	48.17		
116 22_041	7.575	396.71	350.00	46.71		
117 22_053	5.237	395.74	346.50	49.24		
118 32_008	7.575	398.02	344.50	53.52		
119 22_054	8.550	396.16	350.80	45.36		
120 22_055	7.575	397.38	347.00	50.38		

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2030(Fire Fighting/Противопожарный)

[Node]	Name	Q(l/s) Объем(л/с)	WL(m) Уровень(м)	GL(m) Уровень земли	EH(m) Напор(м)	Comment Примечание
121	23_016	7.575	397.55	348.50	49.05	
122	22_056	5.237	396.36	346.50	49.86	
123	22_057	5.237	396.34	346.70	49.64	
124	22_058	7.575	397.79	346.00	51.79	
125	32_007	7.575	398.13	349.30	48.83	
126	23_004	9.927	397.64	360.50	37.14	
127	24_003	9.929	399.12	355.00	44.12	
128	23_006	8.550	396.56	352.50	44.06	
129	23_008	8.550	396.80	354.00	42.80	
130	23_011	7.575	398.61	354.00	44.61	
131	23_012	7.575	398.45	353.20	45.25	
132	23_013	7.575	398.25	354.00	44.25	
133	23_014	7.575	398.42	354.00	44.42	
134	23_015	7.575	397.92	352.00	45.92	
135	23_019	7.575	398.78	350.00	48.78	
136	33_036	7.575	398.73	348.00	50.73	
137	23_020	7.575	398.54	350.10	48.44	
138	33_048	7.575	398.46	350.20	48.26	
139	23_021	7.575	397.29	351.20	46.09	
140	23_022	8.550	397.10	351.80	45.30	
141	23_023	7.575	397.24	351.00	46.24	
142	23_024	7.575	397.48	349.70	47.78	
143	23_025	8.550	397.03	351.70	45.33	
144	23_026	5.950	397.32	353.70	43.62	
145	23_027	5.930	397.45	355.00	42.45	
146	21_028	5.930	397.67	354.50	43.17	
147	23_029	4.971	397.70	353.90	43.80	
148	23_030	5.930	397.33	354.20	43.13	
149	23_031	5.930	397.39	355.70	41.69	
150	23_033	5.930	398.55	356.10	42.45	
151	23_034	5.930	398.90	354.00	44.90	
152	23_079	5.902	399.00	350.52	48.48	
153	23_036	5.930	399.75	353.80	45.95	
154	23_037	5.930	399.75	354.80	44.95	
155	23_038	5.893	400.01	354.20	45.81	
156	23_039	5.930	399.55	355.50	44.05	
157	23_042	7.575	398.13	352.20	45.93	
158	23_045	5.930	398.10	356.50	41.60	
159	23_049	5.930	399.27	356.20	43.07	
160	23_050	5.930	399.65	355.20	44.45	
161	23_051	5.930	397.92	355.50	42.42	
162	23_053	9.929	399.76	354.40	45.36	
163	23_055	5.930	400.02	354.70	45.32	
164	23_056	5.930	400.22	354.40	45.82	
165	23_057	5.930	400.43	354.00	46.43	
166	23_058	5.930	400.64	353.60	47.04	
167	24_001	9.929	399.09	359.00	40.09	
168	24_006	5.930	400.87	353.10	47.77	
169	23_052	9.929	401.75	354.50	47.25	
170	23_060	5.930	401.75	355.00	46.75	
171	23_061	7.575	397.69	350.50	47.19	
172	23_062	5.930	398.30	355.80	42.50	
173	23_063	5.930	398.70	356.10	42.60	
174	23_064	5.930	398.13	356.00	42.13	
175	23_043	5.930	399.27	356.90	42.37	
176	23_065	5.930	399.41	356.30	43.11	
177	23_047	5.930	399.46	355.00	44.46	
178	23_078	4.971	397.55	359.90	37.65	
179	24_007	5.930	401.78	353.40	48.38	
180	23_066	5.930	399.47	356.10	43.37	

2030(Fire Fighting/Противопожарный)

[Node]	Name	Q(l/s) Объем(л/с)	WL(m) Уровень(м)	GL(m) Уровень земли	EH(m) Напор(м)	Comment Примечание
181	23_040	7.575	398.24	352.50	45.74	
182	23_071	5.930	400.20	354.40	45.80	
183	23_073	5.930	400.41	354.00	46.41	
184	34_049	5.930	401.08	352.70	48.38	
185	23_074	5.893	400.44	353.30	47.14	
186	33_034	5.893	400.63	353.00	47.63	
187	23_075	5.893	400.09	354.40	45.69	
188	21_072	5.893	400.25	354.00	46.25	
189	23_076	5.893	399.66	353.00	46.66	
190	23_035	5.893	399.47	352.00	47.47	
191	23_077	5.893	399.28	351.00	48.28	
192	33_031	5.893	400.74	352.50	48.24	
193	33_040	5.893	398.75	348.00	50.75	
194	24_002	9.929	400.11	355.80	44.31	
195	24_004	9.929	400.94	351.90	49.04	
196	34_038	9.929	401.46	351.20	50.26	
197	24_008	-3036.595	402.00	353.00	49.00	LWL:352.0 + PH:50.0
198	34_011	10.574	401.67	354.00	47.67	
199	25_001	495.191	401.44	360.00	41.44	TETS-2
200	34_045	16.279	401.37	360.00	41.37	
201	34_048	5.930	401.50	351.20	50.30	
202	24_009	9.929	401.85	350.50	51.35	
203	30_001	21.973	394.54	342.00	52.54	
204	31_001	21.976	394.69	342.00	52.69	
205	31_002	21.976	396.27	342.00	54.27	
206	31_004	21.976	395.10	342.00	53.10	
207	32_013	21.976	397.21	344.00	53.21	
208	32_002	21.976	399.03	344.20	54.83	
209	32_003	21.976	399.61	345.10	54.51	
210	33_020	24.273	400.35	345.00	55.35	
211	32_004	21.976	398.40	343.50	54.90	
212	32_005	7.575	398.38	347.40	50.98	
213	32_006	7.575	398.11	346.90	51.21	
214	33_044	7.575	398.43	348.40	50.03	
215	32_009	21.976	398.15	346.00	52.15	
216	33_047	7.575	398.32	350.20	48.12	
217	32_015	21.976	397.92	343.50	54.42	
218	42_004	11.700	400.66	346.00	54.66	
219	33_003	22.653	400.86	349.10	51.76	
220	34_015	22.653	400.86	348.30	52.56	
221	33_004	22.653	400.93	349.30	51.63	
222	34_030	22.653	401.14	350.50	50.64	
223	33_005	5.893	400.93	348.10	52.83	
224	33_006	5.893	400.58	346.00	54.58	
225	33_007	24.273	400.42	346.00	54.42	
226	33_008	5.893	400.13	346.80	53.33	
227	33_009	5.893	400.27	347.40	52.87	
228	33_011	5.893	400.79	348.60	52.19	
229	33_012	5.893	400.01	346.00	54.01	
230	33_013	5.893	399.80	345.50	54.30	
231	33_014	5.893	399.56	345.50	54.06	
232	33_015	5.893	400.63	348.00	52.63	
233	33_016	5.893	400.41	348.10	52.31	
234	33_017	5.893	400.44	346.80	53.64	
235	33_019	5.893	399.73	346.00	53.73	
236	33_021	24.273	400.39	346.30	54.09	
237	33_029	5.893	400.96	348.40	52.56	
238	34_036	5.893	401.12	349.40	51.72	
239	33_030	5.893	400.69	350.90	49.79	
240	33_028	5.893	401.09	350.30	50.79	

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2030(Fire Fighting/Противопожарный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
241 34_035		5.893	401.18	350.30	50.88	
242 33_032		5.893	400.93	350.00	50.93	
243 33_033		5.893	401.01	350.00	51.01	
244 34_034		5.893	400.81	352.80	48.01	
245 33_037		7.575	398.74	346.80	51.94	
246 33_038		7.575	398.58	347.70	50.88	
247 33_039		7.575	398.48	348.40	50.08	
248 33_041		5.893	398.73	346.00	52.73	
249 33_042		7.575	398.74	345.90	52.84	
250 33_045		7.575	398.43	349.70	48.73	
251 33_046		7.575	398.44	349.20	49.24	
252 33_049		7.575	398.68	345.90	52.78	
253 33_050		5.893	400.12	347.30	52.82	
254 42_007		11.700	400.66	346.00	54.66	
255 34_001		10.580	400.82	357.90	42.92	
256 34_002		10.574	400.83	358.20	42.63	
257 34_003		10.574	400.99	357.80	43.19	
258 34_004		10.574	400.91	357.80	43.11	
259 34_006		10.574	400.91	359.20	41.71	
260 34_007		10.574	401.09	357.30	43.79	
261 34_008		10.574	401.49	354.10	47.39	
262 34_009		10.574	401.10	357.00	44.10	
263 35_002		10.574	400.71	359.60	41.11	
264 34_010		10.574	400.83	358.60	42.23	
265 35_001		10.574	400.71	360.30	40.41	
266 34_012		10.574	401.18	356.50	44.68	
267 34_013		22.653	401.46	353.80	47.66	
268 34_016		22.653	400.77	350.80	49.97	
269 34_017		22.653	400.93	351.00	49.93	
270 34_018		22.653	401.01	356.30	44.71	
271 34_019		22.653	401.21	351.80	49.41	
272 34_020		22.653	400.79	353.20	47.59	
273 34_021		22.653	400.66	353.00	47.66	
274 34_022		22.653	400.67	352.20	48.47	
275 34_023		22.653	401.33	353.00	48.33	
276 34_026		22.653	401.11	356.70	44.41	
277 34_031		22.653	401.46	353.90	47.56	
278 34_032		22.653	401.41	354.00	47.41	
279 34_033		5.893	401.01	351.80	49.21	
280 34_037		5.893	401.25	350.00	51.25	
281 34_039		5.930	401.27	350.50	50.77	
282 34_043		16.279	401.24	354.00	47.24	
283 44_006		11.700	401.19	349.00	52.19	
284 34_044		16.279	401.31	359.00	42.31	
285 34_046		16.279	401.27	361.00	40.27	
286 45_001		16.279	401.25	360.00	41.25	
287 35_003		24.549	400.53	365.10	35.43	
288 35_007		16.279	400.64	367.00	33.64	
289 35_008		24.549	400.52	366.00	34.52	
290 35_009		25.302	400.42	367.50	32.92	
291 45_005		25.302	400.03	372.50	27.53	
292 35_006		9.929	400.48	369.00	31.48	
293 36_004		13.461	399.96	367.50	32.46	
294 42_001		11.700	401.91	347.00	54.91	
295 52_002		30.310	403.67	348.00	55.67	
296 42_002		11.700	402.15	347.00	55.15	
297 42_003		30.307	403.10	348.00	55.10	
298 52_004		30.310	404.44	348.00	56.44	
299 43_001		30.310	403.70	348.00	55.70	
300 43_002		11.700	402.10	348.00	54.10	

A.3-25

2030(Fire Fighting/Противопожарный)

[Node]	Name	Q(l/s)	WL(m)	GL(m)	EH(m)	Comment
Название	Объем(л/с)	Уровень(м)	Уровень земли	Напор(м)	Примечание	
301 42_005		11.700	401.02	346.00	55.02	
302 42_006		11.700	401.55	347.00	54.55	
303 43_004		11.700	401.12	348.00	53.12	
304 53_001		30.310	405.59	350.00	55.59	
305 43_003		11.700	401.79	348.00	53.79	
306 44_001		11.700	401.29	350.00	51.29	
307 43_005		11.700	401.13	348.00	53.13	
308 43_006		11.700	401.16	348.00	53.16	
309 44_003		11.700	401.22	355.00	46.22	
310 44_005		11.700	401.18	347.00	54.18	
311 53_004		7.305	405.09	349.00	56.09	
312 44_002		11.700	401.19	353.00	48.19	
313 54_007		103.065	400.96	353.00	47.96	
314 44_004		16.279	401.27	356.00	45.27	
315 44_007		103.068	401.45	357.00	44.45	
316 45_002		16.279	401.45	363.00	38.45	
317 54_002		103.065	402.76	353.00	49.76	
318 45_003		25.346	401.80	357.00	44.80	
319 55_001		26.662	402.71	351.00	51.71	
320 45_004		25.346	398.08	354.00	44.08	
321 46_001		25.346	396.96	354.00	42.96	
322 46_002		25.346	396.34	354.00	42.34	
323 46_003		25.346	395.80	354.00	41.80	
324 52_001		30.310	402.61	349.50	53.11	
325 62_001		30.310	402.26	350.00	52.26	
326 52_003		30.310	403.98	348.00	55.98	
327 52_005		30.310	403.37	349.00	54.37	
328 53_003		30.310	404.76	350.00	54.76	
329 53_002		7.304	406.14	350.00	56.14	
330 53_005		7.305	406.10	350.00	56.10	
331 53_006		7.305	406.47	350.00	56.47	
332 53_007		7.305	407.38	350.00	57.38	
333 53_008		7.305	405.00	350.00	55.00	
334 63_004		7.305	404.08	350.00	54.08	
335 53_009		7.305	405.05	350.00	55.05	
336 54_003		16.705	407.93	350.00	57.93	
337 54_006		7.305	406.63	350.00	56.63	
338 53_010		7.305	406.95	350.00	56.95	
339 53_011		16.703	404.70	350.00	54.70	
340 63_003		16.705	403.59	350.50	53.59	
341 64_001		16.705	404.09	350.50	53.59	
342 54_001		16.705	404.01	350.00	54.01	
343 55_002		26.660	403.22	351.00	52.22	
344 54_004		16.705	405.99	350.00	55.99	
345 54_005		16.705	403.84	350.00	53.84	
346 64_005		16.705	404.05	350.80	53.25	
347 64_004		16.705	402.73	350.20	52.53	
348 54_008		-1981.422	408.00	350.00	58.00	New No 2 WTP
349 56_001		112.177	399.64	351.00	48.64	
350 65_001		26.660	401.37	350.00	51.37	
351 63_001		30.310	402.47	350.00	52.47	
352 62_002		3.604	401.81	350.00	51.81	
353 72_001		3.604	401.77	351.00	50.77	
354 62_003		3.604	401.61	350.60	51.01	
355 73_001		5.898	401.41	352.00	49.41	
356 63_002		7.305	403.60	350.00	53.60	
357 64_002		16.705	403.35	350.50	52.85	
358 63_005		3.604	403.57	350.50	53.07	
359 64_006		3.604	403.32	351.00	52.32	
360 64_003		16.705	402.94	350.50	52.44	

2030(Fire Fighting/Противопожарный)

(Pipe)	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(l/s)	Velocity(m/s)	Gradient(%)
Верхний	Нижний	диам.(мм)	Длина(м)			Течение(л/с)	Скорость(м/с)	Градуc(%)
1 12_029	11_001	400	760	110	69.829	0.556	1.12	
2 11_001	11_002	400	490	110	57.776	0.460	0.79	
3 11_005	11_006	400	880	110	43.734	0.348	0.47	
4 11_006	11_007	300	220	110	51.606	0.730	2.61	
5 21_003	11_008	300	700	110	11.849	0.168	0.17	
6 11_002	11_005	400	680	110	45.723	0.364	0.51	
7 11_008	11_006	300	1720	110	9.860	0.139	0.12	
8 12_041	11_007	400	1630	110	45.384	0.361	0.51	
9 12_004	12_003	300	970	110	4.971	0.070	0.03	
10 12_004	12_005	300	320	110	36.260	0.513	1.36	
11 12_006	12_007	200	330	110	11.405	0.363	1.15	
12 12_010	12_009	300	400	110	4.971	0.070	0.03	
13 12_005	12_006	300	140	110	21.347	0.302	0.51	
14 12_005	12_010	300	590	110	9.942	0.141	0.12	
15 12_019	12_018	300	50	110	68.293	0.966	4.38	
16 12_020	12_019	300	140	110	44.325	0.627	1.97	
17 12_021	12_019	300	340	110	29.205	0.413	0.91	
18 12_022	12_021	300	150	110	12.476	0.176	0.19	
19 12_027	12_028	400	290	110	80.303	0.639	1.46	
20 12_028	12_029	400	120	110	75.066	0.597	1.29	
21 12_025	12_030	300	450	110	16.706	0.236	0.32	
22 12_032	12_030	300	170	110	25.840	0.366	0.73	
23 12_030	12_020	300	250	110	37.309	0.528	1.43	
24 12_022	12_020	300	340	110	12.253	0.173	0.18	
25 12_033	12_022	300	360	110	29.966	0.424	0.95	
26 12_034	12_035	300	110	110	24.113	0.341	0.64	
27 12_002	12_035	300	470	110	49.570	0.701	2.42	
28 22_052	12_001	700	410	110	197.825	0.514	0.51	
29 12_001	12_036	300	120	110	21.028	0.297	0.50	
30 22_020	12_037	300	330	110	37.085	0.525	1.42	
31 12_038	12_033	300	110	110	35.203	0.498	1.29	
32 12_034	12_038	300	340	110	40.440	0.572	1.66	
33 22_012	12_039	400	510	110	19.944	0.159	0.11	
34 12_018	12_040	400	720	110	69.490	0.553	1.11	
35 12_031	12_032	300	180	110	31.077	0.440	1.02	
36 22_021	12_037	300	380	110	21.302	0.301	0.51	
37 12_001	12_050	300	200	110	37.644	0.533	1.46	
38 12_006	12_015	300	730	110	4.971	0.070	0.03	
39 12_035	12_004	300	140	110	68.446	0.968	4.40	
40 12_004	12_021	300	730	110	21.966	0.311	0.54	
41 12_027	12_025	300	350	110	21.943	0.310	0.54	
42 22_001	12_027	300	770	110	25.631	0.363	0.71	
43 12_037	12_045	300	240	110	22.993	0.325	0.58	
44 12_045	12_034	300	110	110	69.790	0.987	4.56	
45 12_037	12_039	300	370	110	26.844	0.380	0.78	
46 12_046	12_031	300	370	110	36.314	0.514	1.36	
47 12_039	12_046	300	170	110	41.551	0.588	1.75	
48 12_001	12_047	600	120	110	130.654	0.462	0.50	
49 12_036	22_020	300	140	110	7.436	0.105	0.07	
50 22_052	12_036	300	530	110	21.209	0.300	0.50	
51 23_005	12_047	300	1080	110	23.851	0.337	0.63	
52 12_007	12_018	300	630	110	6.434	0.091	0.06	
53 22_003	12_027	400	350	110	81.852	0.651	1.51	
54 12_040	12_041	400	440	110	57.436	0.457	0.78	
55 12_050	12_045	300	130	110	55.347	0.783	2.97	
56 12_036	12_050	300	310	110	26.252	0.371	0.75	
57 12_047	12_002	600	80	110	149.534	0.529	0.64	
58 13_001	13_002	400	320	110	42.707	0.340	0.45	
59 13_004	13_001	400	1800	110	47.678	0.379	0.55	
60 23_001	13_006	400	840	110	42.707	0.340	0.45	

2030(Fire Fighting/Противопожарный)

(Pipe)	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(l/s)	Velocity(m/s)	Gradient(%)
Верхний	Нижний	диам.(мм)	Длина(м)			Течение(л/с)	Скорость(м/с)	Градуc(%)
61 23_059	13_013	400	240	110	57.620	0.459	0.79	
62 13_013	13_004	400	490	110	52.649	0.419	0.67	
63 13_006	13_008	400	1330	110	37.736	0.300	0.36	
64 21_004	21_003	400	1200	110	79.570	0.633	1.43	
65 22_002	21_005	600	410	110	189.104	0.669	0.99	
66 21_005	22_001	300	650	110	30.868	0.437	1.01	
67 21_005	21_007	500	380	110	152.999	0.779	1.62	
68 21_003	21_002	300	480	110	65.732	0.930	4.08	
69 21_008	21_002	300	1170	110	2.601	0.037	0.01	
70 21_007	21_004	400	210	110	162.555	1.294	5.37	
71 21_004	21_008	300	780	110	70.932	1.003	4.70	
72 21_009	21_007	600	1770	110	14.793	0.052	0.01	
73 31_003	21_009	600	640	110	83.124	0.294	0.22	
74 22_007	22_006	300	410	110	5.907	0.084	0.05	
75 22_007	22_008	300	110	110	30.353	0.429	0.98	
76 22_009	22_003	300	660	110	31.252	0.442	1.03	
77 22_006	22_009	300	180	110	0.670	0.009	0.00	
78 22_010	22_011	400	200	110	19.879	0.158	0.11	
79 22_011	22_012	400	360	110	25.181	0.200	0.17	
80 22_011	22_003	400	490	110	55.837	0.444	0.74	
81 22_013	22_014	300	950	110	9.357	0.132	0.11	
82 22_015	22_014	300	180	110	29.046	0.411	0.90	
83 22_016	22_015	300	330	110	4.317	0.061	0.03	
84 22_018	22_017	300	280	110	21.798	0.308	0.53	
85 22_019	22_016	300	330	110	37.818	0.535	1.47	
86 22_016	22_020	300	390	110	19.709	0.279	0.44	
87 22_017	22_020	300	400	110	18.491	0.262	0.39	
88 22_014	22_021	300	290	110	29.852	0.422	0.95	
89 22_022	22_015	300	330	110	33.279	0.471	1.16	
90 22_023	22_024	300	660	110	1.413	0.020	0.00	
91 22_023	22_022	300	410	110	13.637	0.193	0.22	
92 22_025	22_013	400	240	110	89.519	0.712	1.78	
93 22_026	22_019	400	410	110	43.874	0.349	0.48	
94 22_019	22_022	400	340	110	35.745	0.284	0.33	
95 22_027	22_019	400	520	110	38.239	0.304	0.37	
96 22_022	22_025	400	650	110	7.553	0.060	0.02	
97 22_024	22_025	600	400	110	90.517	0.320	0.25	
98 22_028	22_024	600	80	110	97.654	0.345	0.29	
99 22_030	22_029	600	270	110	114.754	0.406	0.39	
100 22_032	22_026	400	660	110	54.858	0.437	0.72	
101 22_026	22_023	300	350	110	23.599	0.334	0.61	
102 22_033	22_026	300	170	110	21.165	0.299	0.50	
103 22_034	22_032	600	170	110	41.008	0.145	0.06	
104 22_035	22_033	300	170	110	5.597	0.079	0.04	
105 23_017	22_034	400	360	110	37.343	0.297	0.35	
106 22_036	22_033	300	420	110	24.118	0.341	0.64	
107 22_034	22_036	300	260	110	21.245	0.301	0.50	
108 23_018	22_036	300	350	110	11.423	0.162	0.16	
109 23_005	22_018	300	390	110	30.348	0.429	0.98	
110 22_037	22_027	400	420	110	36.659	0.292	0.34	
111 23_009	22_037	300	240	110	12.979	0.184	0.20	
112 22_038	22_037	400	210	110	46.377	0.369	0.53	
113 23_007	22_027	400	250	110	10.130	0.081	0.03	
114 32_010	22_039	300	350	110	10.013	0.142	0.13	
115 22_040	22_032	400	320	110	64.398	0.512	0.97	
116 22_032	22_042	400	340	110	42.957	0.342	0.46	
117 22_043	22_042	300	310	110	33.726	0.477	1.19	
118 32_016	22_044	300	190	110	11.354	0.161	0.16	
119 22_059	22_045	300	180	110	5.240	0.074	0.04	
120 22_045	22_044	600	350	110	66.886	0.237	0.14	







2030(Fire Fighting/Противопожарный)

[Pipe]	Node(u)	Node(d)	Dia.(mm)	Length(m)	C	Flow(l/s)	Velocity(m/s)	Gradient(‰)
	Верхний	Нижний	диам.(мм)	Длина(м)		Течение(л/с)	Скорость(м/с)	Градус(‰)
481	63_001	62_001	300	1500	110	10.530	0.149	0.14
482	62_001	62_002	300	1390	110	16.710	0.236	0.32
483	62_002	72_001	300	2020	110	3.604	0.051	0.02
484	62_002	62_003	300	1760	110	9.502	0.134	0.11
485	62_003	73_001	300	4300	110	5.898	0.083	0.05
486	63_002	63_001	300	670	110	40.840	0.578	1.69
487	63_002	63_003	300	860	110	2.553	0.036	0.01
488	63_003	64_002	300	1500	110	11.410	0.161	0.16
489	63_003	63_005	300	850	110	3.604	0.051	0.02
490	63_004	63_002	300	190	110	50.698	0.717	2.52
491	64_001	64_002	300	1050	110	25.510	0.361	0.71
492	64_002	64_006	300	1810	110	3.604	0.051	0.02
493	64_002	64_003	300	1290	110	16.611	0.235	0.32
494	64_003	64_004	300	1460	110	10.696	0.151	0.14
495	64_001	64_005	400	1070	110	11.894	0.095	0.04
496	64_005	64_003	200	1070	110	10.790	0.343	1.04
497	64_004	65_001	300	1960	110	25.210	0.357	0.69