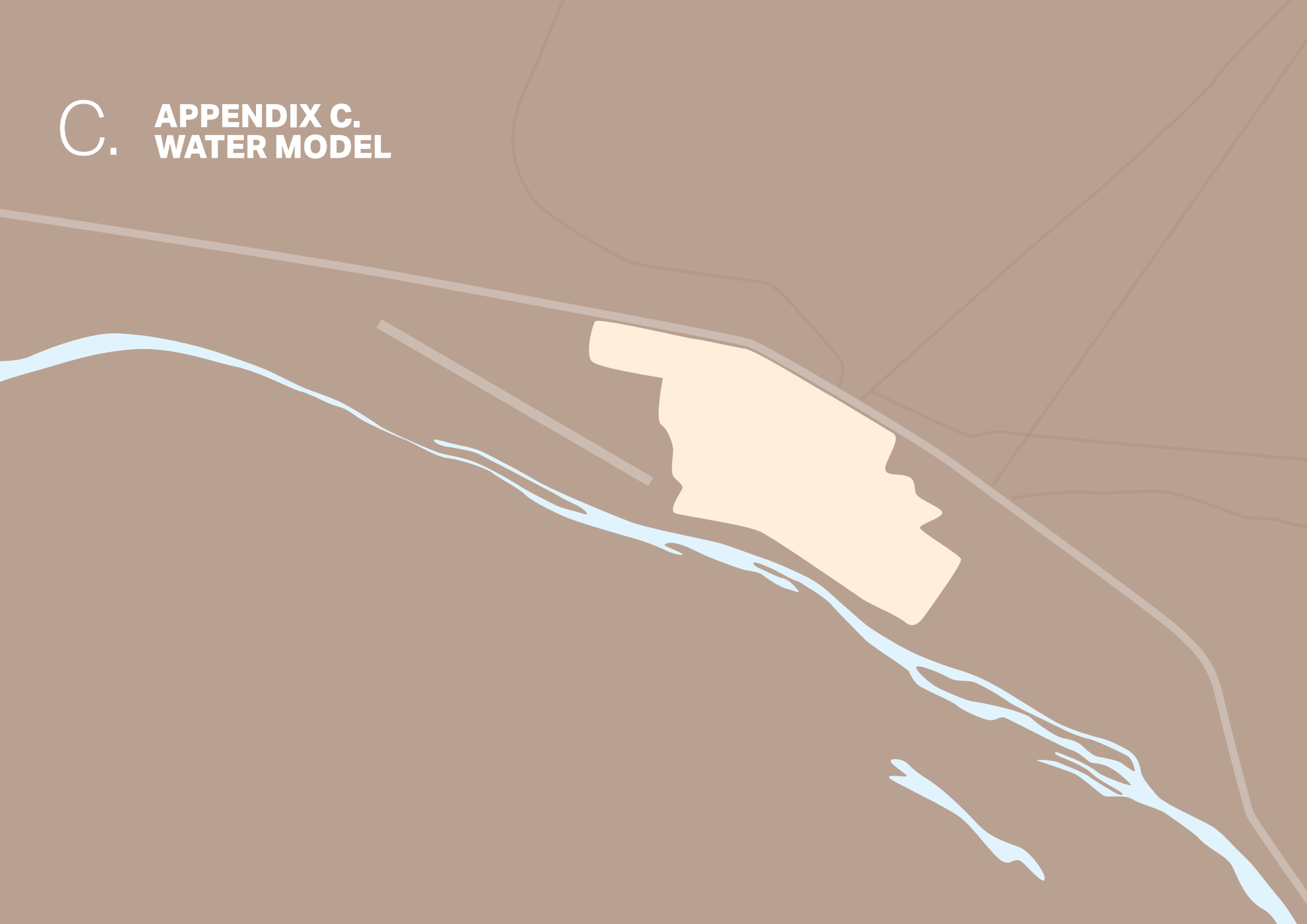


**C. APPENDIX C.
WATER MODEL**



WATER MODEL INPUT DEMANDS

JUNCTION	EP			AVERAGE DAY DEMAND (L/s)		
	EXISTING	ADDITIONAL	TOTAL	EXISTING	ADDITIONAL	TOTAL
1	5.4	0.0	5.4	0.037	0.000	0.037
2	42.9	10.5	53.4	0.298	0.073	0.371
3	79.5	10.5	90.0	0.552	0.073	0.625
4	0.0	0.0	0.0	0.000	0.000	0.000
5	45.1	0.0	45.1	0.313	0.000	0.313
6	0.0	0.0	0.0	0.000	0.000	0.000
7	78.3	0.0	78.3	0.544	0.000	0.544
8	39.7	0.0	39.7	0.276	0.000	0.276
9	0.0	0.0	0.0	0.000	0.000	0.000
10	104.8	0.0	104.8	0.728	0.000	0.728
11	0.0	0.0	0.0	0.000	0.000	0.000
12	83.7	0.0	83.7	0.581	0.000	0.581
13	45.1	0.0	45.1	0.313	0.000	0.313
14	27.9	0.0	27.9	0.194	0.000	0.194
15	80.5	0.0	80.5	0.559	0.000	0.559
16	22.5	0.0	22.5	0.157	0.000	0.157
17	45.1	0.0	45.1	0.313	0.000	0.313
18	0.0	0.0	0.0	0.000	0.000	0.000
19	35.4	0.0	35.4	0.246	0.000	0.246
20	61.3	0.0	61.3	0.426	0.000	0.426
20.1	0.0	0.0	0.0	0.000	0.000	0.000
21	52.6	0.0	52.6	0.365	0.000	0.365
22	0.0	0.0	0.0	0.000	0.000	0.000
23	0.0	28.9	28.9	0.000	0.201	0.201
24	60.1	0.0	60.1	0.417	0.000	0.417
24.1	75.4	100.7	176.1	0.524	0.699	1.223
24.2	0.0	0.0	0.0	0.000	0.000	0.000
25	45.1	0.0	45.1	0.313	0.000	0.313
26	60.1	0.0	60.1	0.417	0.000	0.417

JUNCTION	EP			AVERAGE DAY DEMAND (L/s)		
	EXISTING	ADDITIONAL	TOTAL	EXISTING	ADDITIONAL	TOTAL
27	37.6	0.0	37.6	0.261	0.000	0.261
28	90.2	0.0	90.2	0.626	0.000	0.626
29	37.6	19.5	57.0	0.261	0.135	0.396
30	150.3	0.0	150.3	1.044	0.000	1.044
31	90.3	53.0	143.3	0.627	0.368	0.995
32.1	75.3	227.9	303.2	0.523	1.583	2.105
32.2	37.6	0.0	37.6	0.261	0.000	0.261
33	67.6	0.0	67.6	0.470	0.000	0.470
34	37.6	19.5	57.0	0.261	0.135	0.396
35	30.1	0.0	30.1	0.209	0.000	0.209
36	30.1	174.9	205.0	0.209	1.215	1.423
37	0.0	0.0	0.0	0.000	0.000	0.000
38	0.0	0.0	0.0	0.000	0.000	0.000
39.1	21.5	0.0	21.5	0.149	0.000	0.149
39.2	3.2	72.9	76.1	0.022	0.506	0.529
40.1	21.5	43.8	65.3	0.149	0.304	0.454
40.2	143.3	0.0	143.3	0.995	0.000	0.995
40.3	120.5	0.0	120.5	0.837	0.000	0.837
41	0.0	0.0	0.0	0.000	0.000	0.000
29a	67.6	0.0	67.6	0.470	0.000	0.470
34a	22.5	0.0	22.5	0.157	0.000	0.157
37a	97.7	0.0	97.7	0.678	0.000	0.678
Airport	0.0	0.0	0.0	0.000	0.000	0.000
42	0.0	43.8	43.8	0.000	0.304	0.304
43	0.0	43.8	43.8	0.000	0.304	0.304
44	0.0	43.8	43.8	0.000	0.304	0.304
TOTAL	2272.4	893.5	3165.9	15.781	6.205	21.986

TABLE C1: WATERPLAY PARK AT SITE 1

JUNCTION	EP			AVERAGE DAY DEMAND (L/s)		
	EXISTING	ADDITIONAL	TOTAL	EXISTING	ADDITIONAL	TOTAL
1	5.4	0.0	5.4	0.037	0.000	0.037
2	42.9	10.5	53.4	0.298	0.073	0.371
3	79.5	10.5	90.0	0.552	0.073	0.625
4	0.0	0.0	0.0	0.000	0.000	0.000
5	45.1	0.0	45.1	0.313	0.000	0.313
6	0.0	0.0	0.0	0.000	0.000	0.000
7	78.3	0.0	78.3	0.544	0.000	0.544
8	39.7	0.0	39.7	0.276	0.000	0.276
9	0.0	27.9	27.9	0.000	0.194	0.194
10	104.8	0.0	104.8	0.728	0.000	0.728
11	0.0	0.0	0.0	0.000	0.000	0.000
12	83.7	0.0	83.7	0.581	0.000	0.581
13	45.1	0.0	45.1	0.313	0.000	0.313
14	27.9	0.0	27.9	0.194	0.000	0.194
15	80.5	0.0	80.5	0.559	0.000	0.559
16	22.5	0.0	22.5	0.157	0.000	0.157
17	45.1	0.0	45.1	0.313	0.000	0.313
18	0.0	0.0	0.0	0.000	0.000	0.000
19	35.4	0.0	35.4	0.246	0.000	0.246
20	61.3	0.0	61.3	0.426	0.000	0.426
20.1	0.0	0.0	0.0	0.000	0.000	0.000
21	52.6	0.0	52.6	0.365	0.000	0.365
22	0.0	0.0	0.0	0.000	0.000	0.000
23	0.0	1.0	1.0	0.000	0.007	0.007
24	60.1	0.0	60.1	0.417	0.000	0.417
24.1	75.4	100.7	176.1	0.524	0.699	1.223
24.2	0.0	0.0	0.0	0.000	0.000	0.000
25	45.1	0.0	45.1	0.313	0.000	0.313
26	60.1	0.0	60.1	0.417	0.000	0.417
27	37.6	0.0	37.6	0.261	0.000	0.261
28	90.2	0.0	90.2	0.626	0.000	0.626
29	37.6	19.5	57.0	0.261	0.135	0.396
30	150.3	0.0	150.3	1.044	0.000	1.044

JUNCTION	EP			AVERAGE DAY DEMAND (L/s)		
	EXISTING	ADDITIONAL	TOTAL	EXISTING	ADDITIONAL	TOTAL
31	90.3	53.0	143.3	0.627	0.368	0.995
32.1	75.3	227.9	303.2	0.523	1.583	2.105
32.2	37.6	0.0	37.6	0.261	0.000	0.261
33	67.6	0.0	67.6	0.470	0.000	0.470
34	37.6	19.5	57.0	0.261	0.135	0.396
35	30.1	0.0	30.1	0.209	0.000	0.209
36	30.1	174.9	205.0	0.209	1.215	1.423
37	0.0	0.0	0.0	0.000	0.000	0.000
38	0.0	0.0	0.0	0.000	0.000	0.000
39.1	21.5	0.0	21.5	0.149	0.000	0.149
39.2	3.2	72.9	76.1	0.022	0.506	0.529
40.1	21.5	43.8	65.3	0.149	0.304	0.454
40.2	143.3	0.0	143.3	0.995	0.000	0.995
40.3	120.5	0.0	120.5	0.837	0.000	0.837
41	0.0	0.0	0.0	0.000	0.000	0.000
29a	67.6	0.0	67.6	0.470	0.000	0.470
34a	22.5	0.0	22.5	0.157	0.000	0.157
37a	97.7	0.0	97.7	0.678	0.000	0.678
Airport	0.0	0.0	0.0	0.000	0.000	0.000
42	0.0	43.8	43.8	0.000	0.304	0.304
43	0.0	43.8	43.8	0.000	0.304	0.304
44	0.0	43.8	43.8	0.000	0.304	0.304
TOTAL	2272.4	893.5	3165.9	15.781	6.205	21.986

TABLE C2: WATERPLAY PARK AT SITE 2

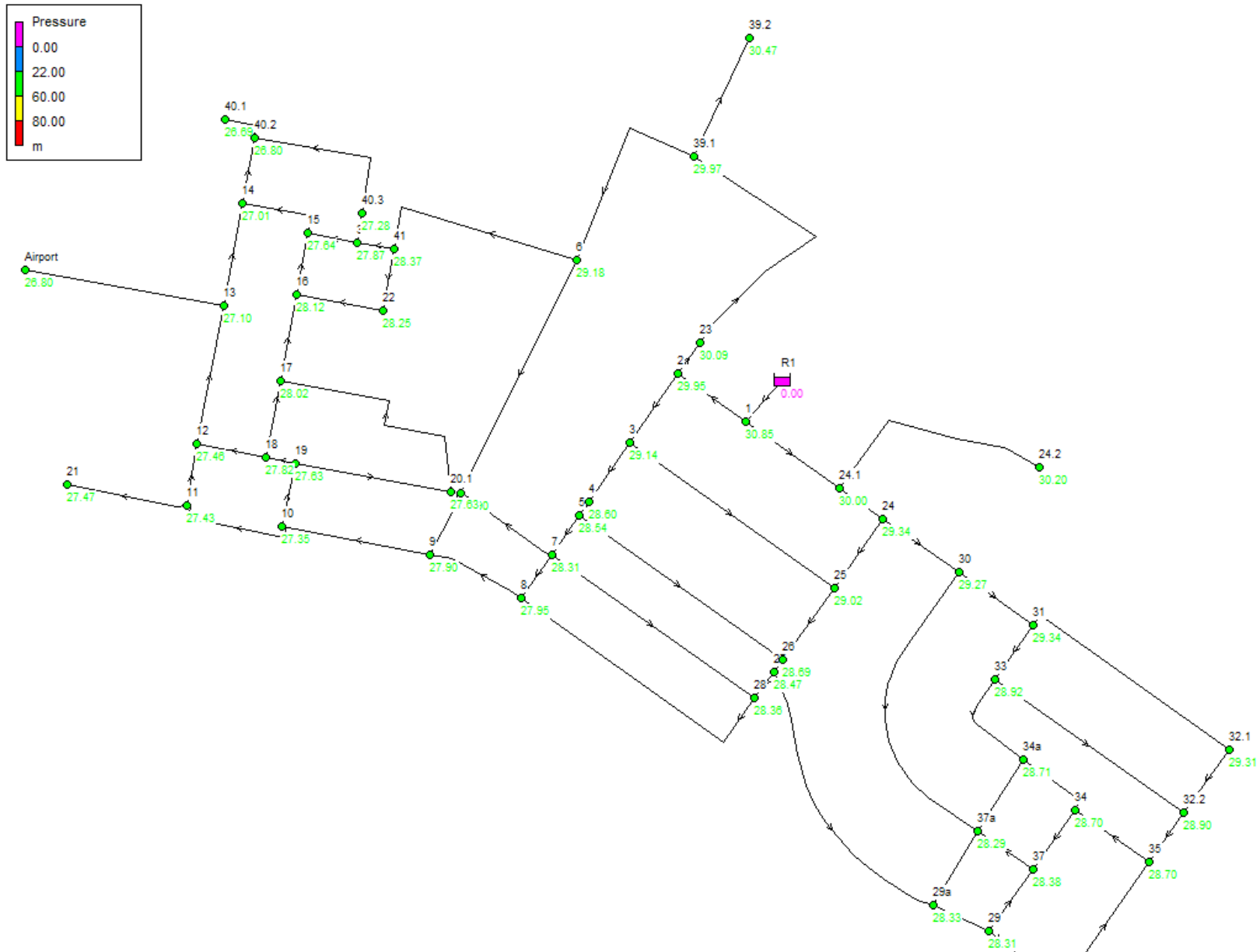


FIGURE C1: EXISTING SYSTEM PEAK HOUR DEMANDS

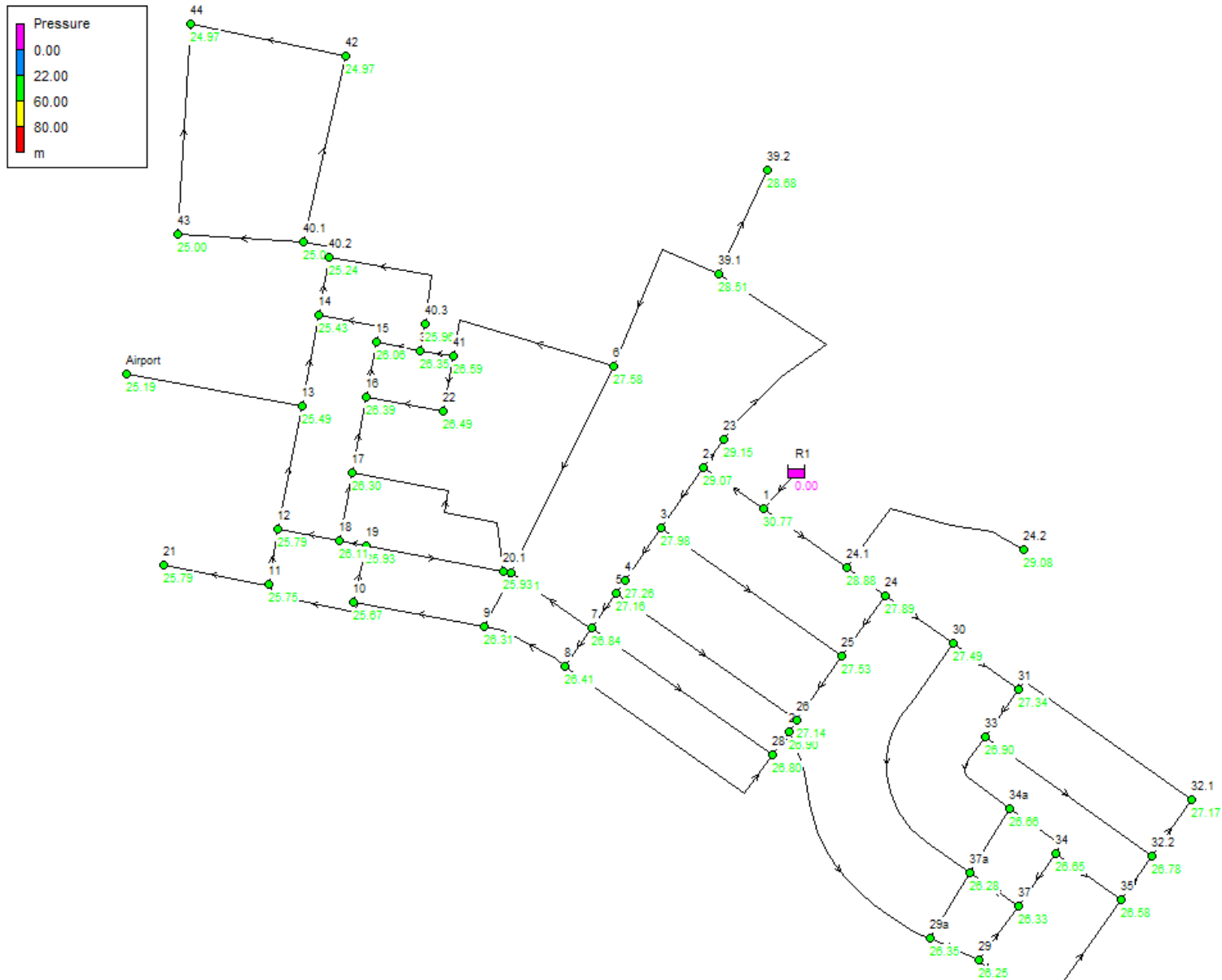


FIGURE C2: FUTURE SYSTEM PEAK HOUR DEMANDS (WATERPLAY PARK AT SITE 1)

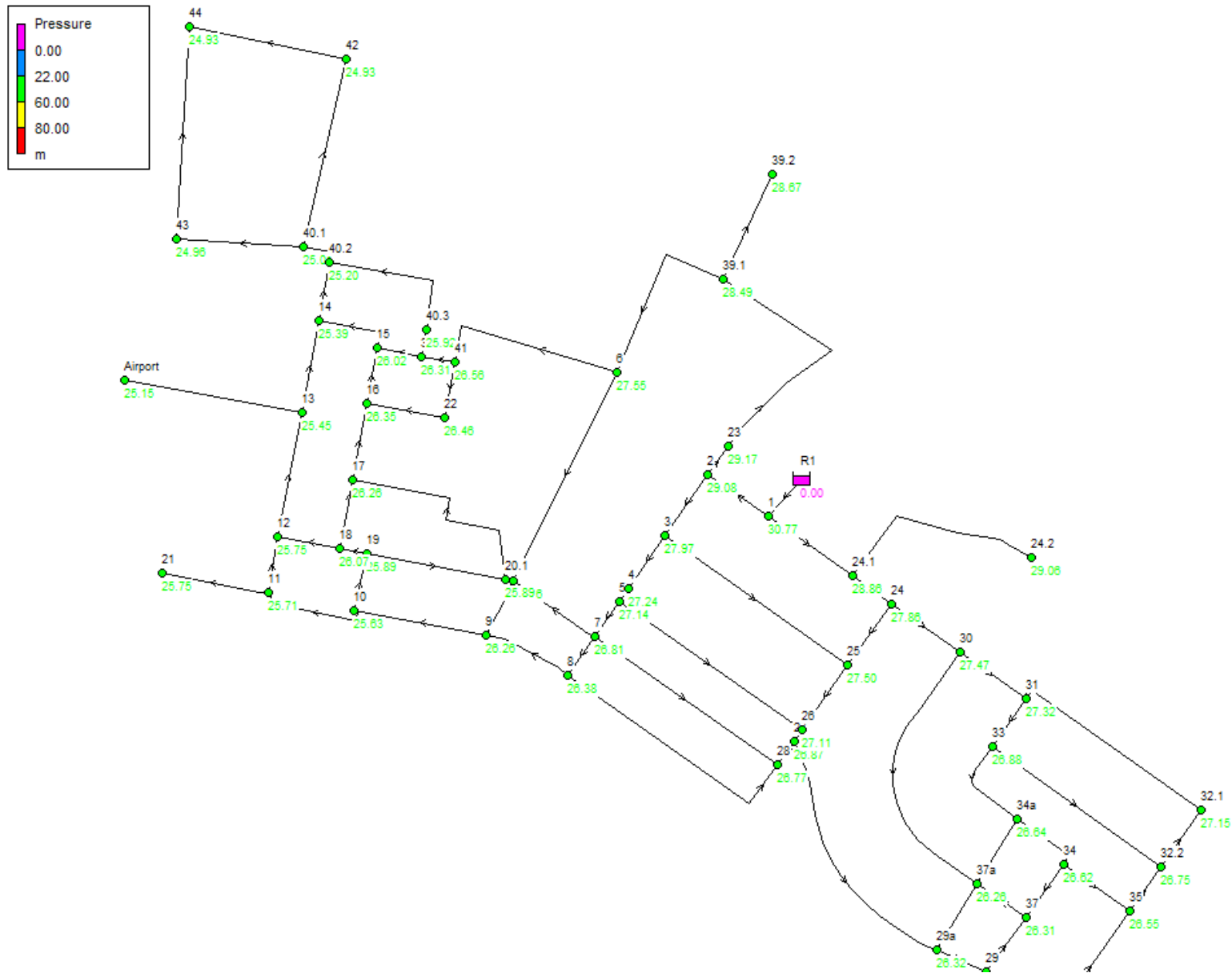


FIGURE C3: FUTURE SYSTEM PEAK HOUR DEMANDS (WATERPLAY PARK AT SITE 2)

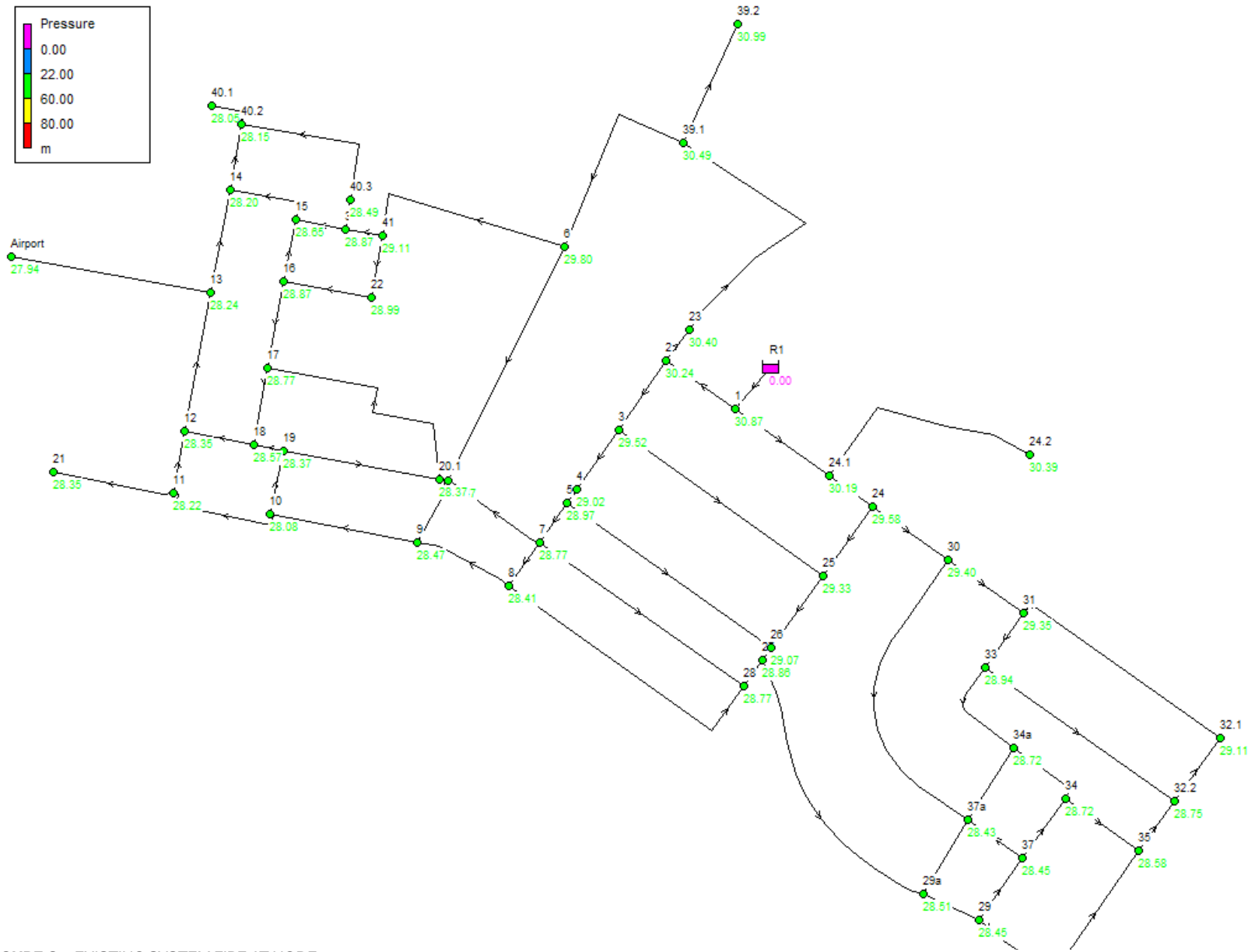


FIGURE C4: EXISTING SYSTEM FIRE AT NODE 32.1

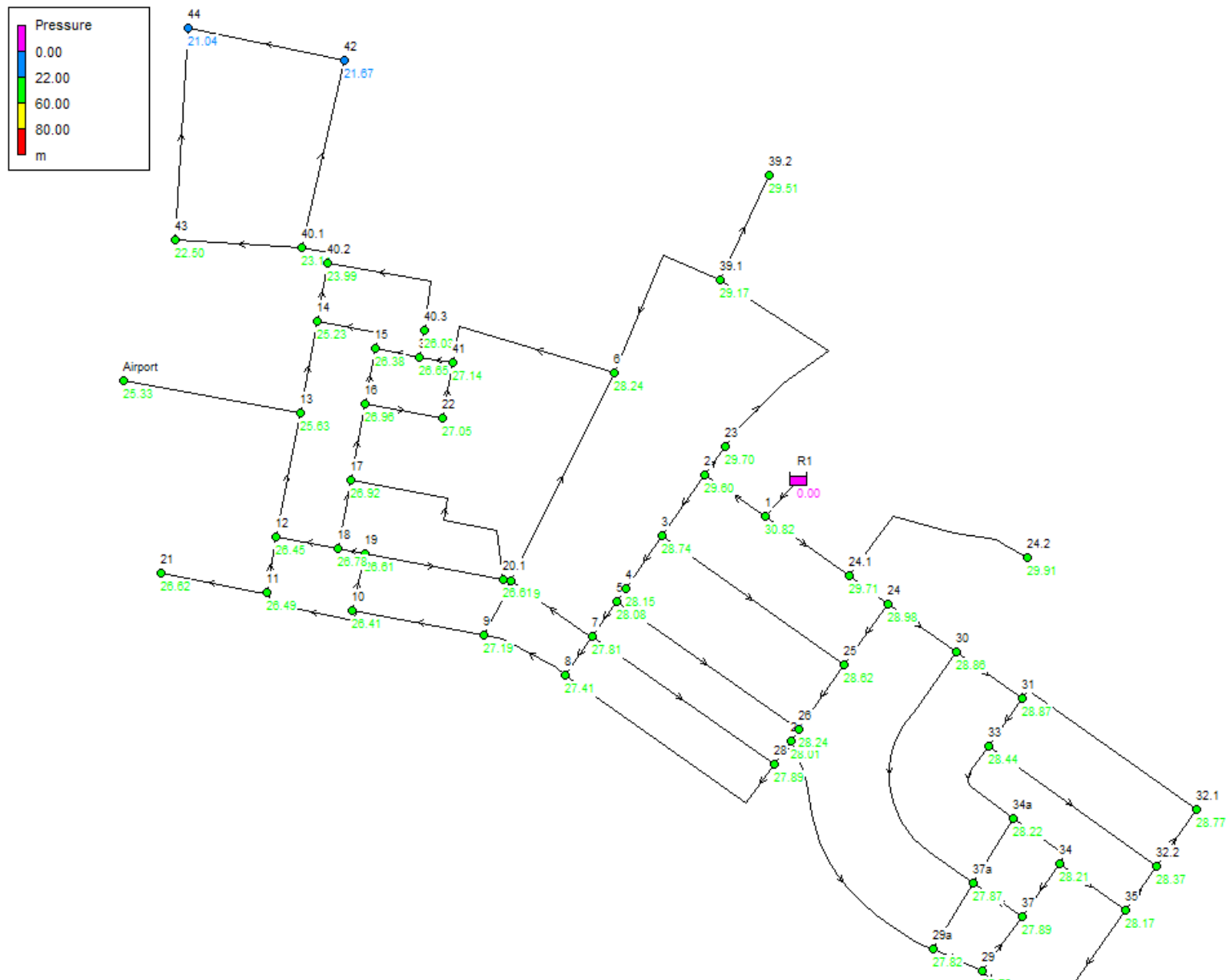


FIGURE C5: FUTURE SYSTEM FIRE AT NODE 44 (WATERPLAY PARK AT SITE 1)

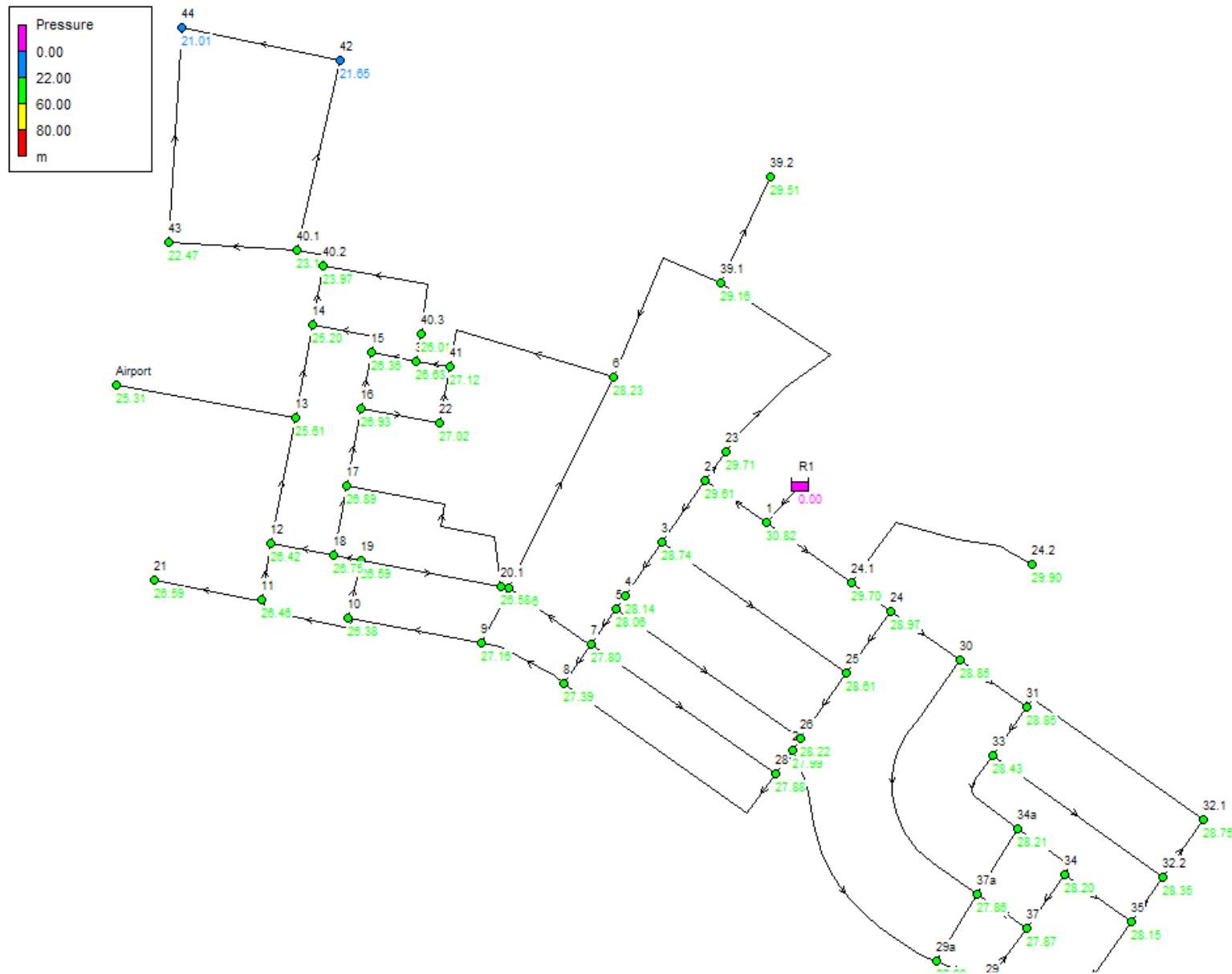


FIGURE C6: FUTURE SYSTEM FIRE AT NODE 44 (WATERPLAY PARK AT SITE 2)