

DPM Weighted E Method

Precipitation Zone 2
Capstone Student Housing
I-25 and Sunport Blvd SE
TWLLC/JW, PE
6-Jun-13 Rev 20-Jun-13

Existing Conditions

Basin Descriptions												100-Year, 6-Hr			10-Year, 6-Hr		
Basin ID	Area (sf)	Area (acres)	Area (sq miles)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
				%	(acres)	%	(acres)	%	(acres)	%	(acres)						
Ex-A1	237,886.14	5.46	0.00853	0%	0	0%	0.000	100%	5.461114	0%	0.000	1.130	0.514	17.15	0.520	0.237	9.34
Ex-A2	213,668.45	4.91	0.00766	0%	0	0%	0.000	100%	4.905153	0%	0.000	1.130	0.462	15.40	0.520	0.213	8.39
Ex-B	1,054,224.00	24.20	0.03782	0%	0	0%	0.000	100%	24.20165	0%	0.000	1.130	2.279	75.99	0.520	1.049	41.38
Ex-C	113,030.00	2.59	0.00405	0%	0	0%	0.000	100%	2.594812	0%	0.000	1.130	0.244	8.15	0.520	0.112	4.44
Total	1,618,808.59	37.163	0.05807										3.499	116.69		1.610	63.55

Notes:

Developed Conditions

Basin Descriptions												100-Year, 6-Hr			10-Year, 6-Hr		
Basin ID	Area (sf)	Area (acres)	Area (sq miles)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
				%	(acres)	%	(acres)	%	(acres)	%	(acres)						
A-1	24,838.00	0.57	0.00089	0%	0	0%	0.000	15%	0.08553	85%	0.485	1.972	0.094	2.55	1.217	0.058	1.67
A-2	105,565.00	2.42	0.00379	0%	0	0%	0.000	15%	0.363516	85%	2.060	1.972	0.398	10.82	1.217	0.246	7.09
A-3	29,549.00	0.68	0.00106	0%	0	0%	0.000	15%	0.101753	85%	0.577	1.972	0.111	3.03	1.217	0.069	1.98
A-4	30,691.00	0.70	0.00110	0%	0	0%	0.000	15%	0.105685	85%	0.599	1.972	0.116	3.15	1.217	0.071	2.06
A-5	104,192.00	2.39	0.00374	0%	0	0%	0.000	15%	0.358788	85%	2.033	1.972	0.393	10.68	1.217	0.243	7.00
A-6	72,418.00	1.66	0.00260	0%	0	0%	0.000	15%	0.249373	85%	1.413	1.972	0.273	7.42	1.217	0.169	4.86
A-7	33,351.00	0.77	0.00120	0%	0	0%	0.000	15%	0.114845	85%	0.651	1.972	0.126	3.42	1.217	0.078	2.24
A-8	22,174.00	0.51	0.00080	0%	0	0%	0.000	15%	0.076357	85%	0.433	1.972	0.084	2.27	1.217	0.052	1.49
A-9	12,937.00	0.30	0.00046	0%	0	0%	0.000	100%	0.296993	0%	0.000	1.130	0.028	0.93	0.520	0.013	0.51
A-10	40,443.00	0.93	0.00145	0%	0	0%	0.000	100%	0.928444	0%	0.000	1.130	0.087	2.92	0.520	0.040	1.59
A-11	51,106.00	1.17	0.00183	0%	0	0%	0.000	100%	1.173232	0%	0.000	1.130	0.110	3.68	0.520	0.051	2.01
B-1	93,541.00	2.15	0.00336	0%	0	0%	0.000	15%	0.322111	85%	1.825	1.972	0.353	9.59	1.217	0.218	6.28
B-2	15,607.00	0.36	0.00056	0%	0	0%	0.000	15%	0.053743	85%	0.305	1.972	0.059	1.60	1.217	0.036	1.05
B-3	91,753.00	2.11	0.00329	0%	0	0%	0.000	15%	0.315954	85%	1.790	1.972	0.346	9.41	1.217	0.214	6.16
B-4	18,480.00	0.42	0.00066	0%	0	0%	0.000	15%	0.063636	85%	0.361	1.972	0.070	1.89	1.217	0.043	1.24
B-5	48,223.00	1.11	0.00173	0%	0	0%	0.000	15%	0.166057	85%	0.941	1.972	0.182	4.94	1.217	0.112	3.24
B-6	52,071.00	1.20	0.00187	0%	0	0%	0.000	15%	0.179308	85%	1.016	1.972	0.196	5.34	1.217	0.121	3.50
B-7	7,973.00	0.18	0.00029	0%	0	0%	0.000	15%	0.027455	85%	0.156	1.972	0.030	0.82	1.217	0.019	0.54
B-8	42,800.00	0.98	0.00154	0%	0	0%	0.000	15%	0.147383	85%	0.835	1.972	0.161	4.39	1.217	0.100	2.87
B-9	60,848.00	1.40	0.00218	0%	0	0%	0.000	15%	0.209532	85%	1.187	1.972	0.229	6.24	1.217	0.142	4.09
B-10	47,490.00	1.09	0.00170	0%	0	0%	0.000	100%	1.09022	0%	0.000	1.130	0.103	3.42	0.520	0.047	1.86
B-11	509,537.00	11.70	0.01828	0%	0	0%	0.000	100%	11.69736	0%	0.000	1.130	1.102	36.73	0.520	0.507	20.00
C-1	113,067.00	2.60	0.00406	0%	0	0%	0.000	100%	2.595661	0%	0.000	1.130	0.244	8.15	0.520	0.112	4.44
Total	1,628,654.00	37.389	0.05842										4.896	143.40		2.759	87.77

Notes:

Equations:
Weighted E = E_a*A_a + E_b*A_b + E_c*A_c + E_d*A_d / (Total Area)