

J000087-RPT-003-B Appendix B Modelling Parameters

Eastern Catchment			E1		E2	E2 Downstream	E2a	E2b	E3	E3 Downstream	E3a	E3b	E4	E4 Upstream
			Total	Non Detained	Total	Non Detained	Detained	Detained	Total	Non Detained	Detained	Detained	Total	Detained
Development Status	Curve Number	Initial Abstraction	Pre	Post	Pre	Post	Post	Post	Pre	Post	Post	Post	Pre	Post
Roof Area (m2)	98	0	0	500	0	500	500	500	0	0	1000	500	0	1000
Asphalt/Concrete (m2)	98	0	0	500	0	638	500	500	0	0	1000	500	0	1000
Pasture (Good - m2)	74	5	14650	12500	27130	12863	4900	4600	40530	16200	18700	3400	29830	9700
Brush/Weed/Grass (50% Fair, 50% Good)	67.5	5	0	500	200	0	600	600	200	0	600	600	0	300
Total (m2)			14650	14000	27330	14000	6500	6200	40730	16200	21300	5000	29830	12000
Weighted Curve Number			74.000	75.482	73.952	75.950	77.092	77.242	73.968	74.000	76.070	78.020	74.000	77.838
Initial Abstraction (mm)			5.000	4.643	5.000	4.594	4.231	4.194	5.000	5.000	4.531	4.000	5.000	4.167
Time of Concentration (min)			9.4	9.4	12.6	12.6	10.3	10.3	18.5	18.5	15.5	15.5	23.9	23.9
Lag Time (min)			6.2	6.2	8.4	8.4	8.4	8.4	12.3	12.3	12.3	12.3	16.0	16.0
Total Flow Time to CMA (min)			29.0	29.0	31.2	31.2	31.2	31.2	35.1	35.1	35.1	35.1	38.8	38.8

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Eastern Catchment			E4 Downstream	E5	E5 Downstream	E5a	E5b	E5c	E5d	E5e	E5f	E6	E6 Downstream	E6a
			Non Detained	Total	Non Detained	Detained	Detained	Detained	Detained	Detained	Detained	Total	Non Detained	Detained
Development Status	Curve Number	Initial Abstraction	Post	Pre	Post	Post	Post	Post	Post	Post	Post	Pre	Post	Post
Roof Area (m2)	98	0	0	0	500	0	1000	500	500	500	500	0	0	2000
Asphalt/Concrete (m2)	98	0	0	0	500	600	1300	734	900	500	500	0	0	2500
Pasture (Good - m2)	74	5	17900	106700	42000	6200	7750	3466	8150	3300	10200	58850	32900	15300
Brush/Weed/Grass (50% Fair, 50% Good)	67.5	5	300	0	200	200	200	200	200	200	200	0	200	200
Total (m2)			18200	106700	43200	7000	10250	4900	9750	4500	11400	58850	33100	20000
Weighted Curve Number			73.893	74.000	74.525	75.871	79.259	79.778	77.313	79.044	75.991	74.000	73.961	79.335
Initial Abstraction (mm)			5.000	5.000	4.884	4.571	3.878	3.741	4.282	3.889	4.561	5.000	5.000	3.875
Time of Concentration (min)			22.1	32.4	32.4	28.0	29.0	30.0	31.0	32.0	33.0	37.4	37.4	33.3
Lag Time (min)			16.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	24.9	24.9	24.9
Total Flow Time to CMA (min)			38.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	47.7	47.7	47.7

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Eastern Catchment			E6b	E6c	E6d	E7	E7 Upstream	E7 Downstream
			Detained	Detained	Detained	Total	Detained	Non Detained
Development Status	Curve Number	Initial Abstraction	Post	Post	Post	Pre	Post	Post
Roof Area (m2)	98	0	500	1000	500	0	1500	0
Asphalt/Concrete (m2)	98	0	500	1300	500	0	2300	0
Pasture (Good - m2)	74	5	2550	5800	3050	41740	18200	18000
Brush/Weed/Grass (50% Fair, 50% Good)	67.5	5	200	200	200	0	200	1000
Total (m2)			3750	8300	4250	41740	22200	19000
Weighted Curve Number			80.053	80.494	79.341	74.000	78.050	73.658
Initial Abstraction (mm)			3.667	3.614	3.824	5.000	4.144	5.000
Time of Concentration (min)			34.3	35.3	36.3	39.8	39.8	37.6
Lag Time (min)			24.9	24.9	24.9	26.5	26.5	26.5
Total Flow Time to CMA (min)			47.7	47.7	47.7	49.3	49.3	49.3

Western Catchment			W1			W2			W3			W4			W5			W6		
			Total	Detained	Non Detained	Total	Detained	Non Detained	Total	Detained	Non Detained	Total	Detained	Non Detained	Total	Detained	Non Detained	Total	Detained	Non Detained
Development Status	Curve Number	Initial Abstraction	Pre	Post	Post	Pre	Post	Post	Pre	Post	Post	Pre	Post	Post	Pre	Post	Post	Pre	Post	Post
Roof Area (m2)	98	0	0	1000	0	0	2850	500	0	2160	4550	0	4010	4780	0	7940	0	0	6130	540
Asphalt/Concrete (m2)	98	0	0	1800	0	0	5200	500	0	3000	3800	0	3600	5000	0	7900	0	0	5100	800
Pasture (Good - m2)	74	5	18980	13500	2800	40210	21850	8000	41510	5440	26750	86400	16890	46720	54010	34060	6900	62340	9320	38280
Brush/Weed/Grass (50% Fair, 50% Good)	67.5	5	0	0	0	0	0	400	0	0	500	0	300	500	0	200	300	0	50	500
Total (m2)			18980	16300	2800	40210	29900	9400	41510	10600	35600	86400	24800	57000	54010	50100	7200	62340	20600	40120
Weighted Curve Number			74.0	78.1	74.0	74.0	80.5	76.3	74.0	85.7	79.5	74.0	81.3	78.1	74.0	81.6	73.7	74.0	87.1	74.7
Initial Abstraction (mm)			5.0	4.1	5.0	5.0	3.7	4.5	5.0	2.6	3.8	5.0	3.5	4.1	5.0	3.4	5.0	5.0	2.3	4.8
Time of Concentration (min)			8.9	8.9	8.9	11.1	11.1	10.0	14.7	14.7	10.0	21.3	21.3	21.3	14.6	14.6	10.0	12.7	12.7	10.0
Lag Time (min)			6.0	6.0	6.0	7.4	7.4	6.7	9.8	9.8	6.7	14.2	14.2	14.2	9.7	9.7	6.7	8.5	8.5	6.7
Total Flow Time to CMA (min)			28.7	28.7	28.7	30.2	30.2	29.5	32.6	32.6	29.5	37.0	37.0	37.0	32.5	32.5	29.5	31.3	31.3	29.5