
APPENDIX B

RAFTS MODEL RESULTS

1 yr 720 270mm

Untitled

#####

Dolphin Point - Existing

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 6:40.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 720.
RETURN PERIOD (YRS) = 1.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 78.35
TOTAL OF SECOND SUB-AREAS (km2) = 4.12
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 Loss (mm)	Loss #2	Cont. #1 Loss (mm/h)	Loss #2	Excess #1 Rain (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.2750	400.0	0.000
CatA	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.6140	400.0	0.000
CatF	7.225	25.00	2.500	1.500	0.000	18.130	42.555	1.099	400.0	0.000
CatB	7.225	25.00	2.500	1.500	0.000	18.130	42.555	1.467	400.0	0.000
CatG	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.2536	400.0	0.000
CatC	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.6393	400.0	0.000
CatH	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.8408	400.0	0.000
CatD	7.225	25.00	2.500	1.500	0.000	18.130	42.555	1.102	400.0	0.000
outlet	7.225	25.00	0.000	1.500	0.000	18.130	0.000	3.822	400.0	0.000

Untitled

LINK CatE 1.000
ESTIMATED VOLUME (CU METRES*10**3) = 2.528
ESTIMATED PEAK FLOW (CUMECS) = 0.39
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatA 1.001
ESTIMATED VOLUME (CU METRES*10**3) = 4.933
ESTIMATED PEAK FLOW (CUMECS) = 0.84
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatF 2.000
ESTIMATED VOLUME (CU METRES*10**3) = 11.28
ESTIMATED PEAK FLOW (CUMECS) = 1.57
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatB 2.001
ESTIMATED VOLUME (CU METRES*10**3) = 14.04
ESTIMATED PEAK FLOW (CUMECS) = 2.08
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatG 3.000
ESTIMATED VOLUME (CU METRES*10**3) = 2.182
ESTIMATED PEAK FLOW (CUMECS) = 0.35
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatC 3.001
ESTIMATED VOLUME (CU METRES*10**3) = 5.081
ESTIMATED PEAK FLOW (CUMECS) = 0.88
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatH 4.000
ESTIMATED VOLUME (CU METRES*10**3) = 10.53
ESTIMATED PEAK FLOW (CUMECS) = 1.29
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatD 4.001
ESTIMATED VOLUME (CU METRES*10**3) = 12.33
ESTIMATED PEAK FLOW (CUMECS) = 1.63
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK Outlet 1.002
ESTIMATED VOLUME (CU METRES*10**3) = 36.39
ESTIMATED PEAK FLOW (CUMECS) = 5.43
ESTIMATED TIME TO PEAK (MINS) = 420.00

Dolphin Point - Existing

Continuous run: block 2 of 2
Results for period from 6:40.0 1/ 1/1990
to 13:20.0 1/ 1/1990

#####

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
CatE	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.3879	420.0	0.000
CatA	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.8399	420.0	0.000
CatF	7.225	0.000	0.000	1.500	0.000	34.421	41.645	1.575	420.0	0.000
CatB	7.225	0.000	0.000	1.500	0.000	34.421	41.645	2.077	420.0	0.000
CatG	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.3532	420.0	0.000
CatC	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.8800	420.0	0.000
CatH	7.225	0.000	0.000	1.500	0.000	34.421	41.645	1.291	420.0	0.000
CatD	7.225	0.000	0.000	1.500	0.000	34.421	41.645	1.633	420.0	0.000
outlet	7.225	0.000	0.000	1.500	0.000	34.421	0.000	5.430	420.0	0.000

Untitled

 #####
 Dolphin Point - Existing

Continuous run: block 1 of 2
 Results for period from 0: 0.0 1/ 1/1990
 to 3:20.0 1/ 1/1990

 #####

ROUTING INCREMENT (MINS) = 0.50
 STORM DURATION (MINS) = 270.
 RETURN PERIOD (YRS) = 5.
 BX = 1.0000
 TOTAL OF FIRST SUB-AREAS (km2) = 78.35
 TOTAL OF SECOND SUB-AREAS (km2) = 4.12
 TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2 (mm)	Cont. #1 (mm/h)	Loss #2 (mm/h)	Excess #1 (mm)	Rain #2 (mm)	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	24.225	25.00	2.500	1.500	0.000	69.003	95.103	0.8863	90.00	0.000
CatA	24.225	25.00	2.500	1.500	0.000	69.003	95.103	1.887	90.00	0.000
CatF	24.225	25.00	2.500	1.500	0.000	69.003	95.103	3.172	90.00	0.000
CatB	24.225	25.00	2.500	1.500	0.000	69.003	95.103	4.317	90.00	0.000
CatG	24.225	25.00	2.500	1.500	0.000	69.003	95.103	0.8281	90.00	0.000
CatC	24.225	25.00	2.500	1.500	0.000	69.003	95.103	2.031	88.50	0.000
CatH	24.225	25.00	2.500	1.500	0.000	69.003	95.103	2.380	90.00	0.000
CatD	24.225	25.00	2.500	1.500	0.000	69.003	95.103	3.127	90.00	0.000
Outlet	24.225	25.00	0.000	1.500	0.000	69.003	0.000	11.360	90.00	0.000

Untitled

LINK CatE	1.000	
ESTIMATED VOLUME (CU METRES*10**3) =		0.9730
ESTIMATED PEAK FLOW (CUMECS) =		0.23
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatA	1.001	
ESTIMATED VOLUME (CU METRES*10**3) =		1.785
ESTIMATED PEAK FLOW (CUMECS) =		0.44
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatF	2.000	
ESTIMATED VOLUME (CU METRES*10**3) =		4.596
ESTIMATED PEAK FLOW (CUMECS) =		1.04
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatB	2.001	
ESTIMATED VOLUME (CU METRES*10**3) =		5.558
ESTIMATED PEAK FLOW (CUMECS) =		1.28
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatG	3.000	
ESTIMATED VOLUME (CU METRES*10**3) =		0.8108
ESTIMATED PEAK FLOW (CUMECS) =		0.20
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatC	3.001	
ESTIMATED VOLUME (CU METRES*10**3) =		1.822
ESTIMATED PEAK FLOW (CUMECS) =		0.45
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatH	4.000	
ESTIMATED VOLUME (CU METRES*10**3) =		4.640
ESTIMATED PEAK FLOW (CUMECS) =		1.00
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK CatD	4.001	
ESTIMATED VOLUME (CU METRES*10**3) =		5.236
ESTIMATED PEAK FLOW (CUMECS) =		1.15
ESTIMATED TIME TO PEAK (MINS) =		200.50
LINK Outlet	1.002	
ESTIMATED VOLUME (CU METRES*10**3) =		14.40
ESTIMATED PEAK FLOW (CUMECS) =		3.33
ESTIMATED TIME TO PEAK (MINS) =		200.50

 #####
 Dopln Point - Existing

Continuous run: block 2 of 2
 Results for period from 3:20.0 1/ 1/1990
 to 6:40.0 1/ 1/1990
 #####
 #####

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link	Catch. Area		Slope		% Impervious		Pern		B		Link
Label	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
No.	(ha)		(%)		(%)						
CatE	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
1.000											
CatA	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
1.001											
CatF	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
2.000											
CatB	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
2.001											
CatG	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
3.000											
CatC	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
3.001											
CatH	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
4.000											
CatD	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
4.001											
Outlet	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
1.002											

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
CatE	24.225	0.000	0.000	1.500	0.000	9.660	11.410	0.2296	200.5	0.000
CatA	24.225	0.000	0.000	1.500	0.000	9.660	11.410	0.4430	200.5	0.000
CatF	24.225	0.000	0.000	1.500	0.000	9.660	11.410	1.039	200.5	0.000
CatB	24.225	0.000	0.000	1.500	0.000	9.660	11.410	1.283	200.5	0.000
CatG	24.225	0.000	0.000	1.500	0.000	9.660	11.410	0.1955	200.5	0.000
CatC	24.225	0.000	0.000	1.500	0.000	9.660	11.410	0.4520	200.5	0.000
CatH	24.225	0.000	0.000	1.500	0.000	9.660	11.410	0.9953	200.5	0.000
CatD	24.225	0.000	0.000	1.500	0.000	9.660	11.410	1.155	200.5	0.000
outlet	24.225	0.000	0.000	1.500	0.000	9.660	0.000	3.333	200.5	0.000

10yr 120mm

Untitled

Dolphin Point - Existing

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 1:20.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 0.20
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 78.35
TOTAL OF SECOND SUB-AREAS (km2) = 4.12
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2 (mm)	Cont. #1 (mm/h)	Loss #2 (mm/h)	Excess #1 (mm)	Rain #2 (mm)	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	54.449	25.00	2.500	1.500	0.000	70.406	94.311	1.384	45.00	0.000
CatA	54.449	25.00	2.500	1.500	0.000	70.406	94.311	3.648	40.00	0.000
CatF	54.449	25.00	2.500	1.500	0.000	70.406	94.311	4.948	56.80	0.000
CatB	54.449	25.00	2.500	1.500	0.000	70.406	94.311	6.803	45.00	0.000
CatG	54.449	25.00	2.500	1.500	0.000	70.406	94.311	1.382	45.00	0.000
CatC	54.449	25.00	2.500	1.500	0.000	70.406	94.311	3.731	43.60	0.000
CatH	54.449	25.00	2.500	1.500	0.000	70.406	94.311	4.074	65.00	0.000
CatD	54.449	25.00	2.500	1.500	0.000	70.406	94.311	4.939	40.00	0.000
outlet	54.449	25.00	0.000	1.500	0.000	70.406	0.000	18.719	40.00	0.000

Untitled

LINK CatE	1.000	
ESTIMATED VOLUME (CU METRES*10**3) =		1.404
ESTIMATED PEAK FLOW (CUMECS) =		0.70
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatA	1.001	
ESTIMATED VOLUME (CU METRES*10**3) =		2.520
ESTIMATED PEAK FLOW (CUMECS) =		1.31
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatF	2.000	
ESTIMATED VOLUME (CU METRES*10**3) =		7.026
ESTIMATED PEAK FLOW (CUMECS) =		3.44
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatB	2.001	
ESTIMATED VOLUME (CU METRES*10**3) =		8.359
ESTIMATED PEAK FLOW (CUMECS) =		4.16
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatG	3.000	
ESTIMATED VOLUME (CU METRES*10**3) =		1.157
ESTIMATED PEAK FLOW (CUMECS) =		0.58
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatC	3.001	
ESTIMATED VOLUME (CU METRES*10**3) =		2.560
ESTIMATED PEAK FLOW (CUMECS) =		1.33
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatH	4.000	
ESTIMATED VOLUME (CU METRES*10**3) =		7.315
ESTIMATED PEAK FLOW (CUMECS) =		3.37
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatD	4.001	
ESTIMATED VOLUME (CU METRES*10**3) =		8.138
ESTIMATED PEAK FLOW (CUMECS) =		3.83
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK Outlet	1.002	
ESTIMATED VOLUME (CU METRES*10**3) =		21.58
ESTIMATED PEAK FLOW (CUMECS) =		10.63
ESTIMATED TIME TO PEAK (MINS) =		80.20

 #####
 Dolphin Point - Existing

Continuous run: block 2 of 2
 Results for period from 1:20.0 1/ 1/1990
 to 2:40.0 1/ 1/1990

 #####

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link	Catch. Area		Slope		% Impervious		Pern		B		Link
Label	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
No.	(ha)		(%)		(%)						
CatE	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
1.000											
CatA	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
1.001											
CatF	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
2.000											
CatB	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
2.001											
CatG	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
3.000											
CatC	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
3.001											
CatH	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
4.000											
CatD	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
4.001											
Outlet	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
1.002											

Link	Average	Init. Loss		Cont. Loss		Excess Rain		Peak	Time	Link
Label	Intensity	#1	#2	#1	#2	#1	#2	Inflow	to	Lag
	(mm/h)	(mm)		(mm/h)		(mm)		(m^3/s)	Peak	mins
CatE	54.449	0.000	0.000	1.500	0.000	11.032	12.027	0.6982	80.20	0.000
CatA	54.449	0.000	0.000	1.500	0.000	11.032	12.027	1.312	80.20	0.000
CatF	54.449	0.000	0.000	1.500	0.000	11.032	12.027	3.445	80.20	0.000
CatB	54.449	0.000	0.000	1.500	0.000	11.032	12.027	4.157	80.20	0.000
CatG	54.449	0.000	0.000	1.500	0.000	11.032	12.027	0.5805	80.20	0.000
CatC	54.449	0.000	0.000	1.500	0.000	11.032	12.027	1.329	80.20	0.000
CatH	54.449	0.000	0.000	1.500	0.000	11.032	12.027	3.368	80.20	0.000
CatD	54.449	0.000	0.000	1.500	0.000	11.032	12.027	3.829	80.20	0.000
outlet	54.449	0.000	0.000	1.500	0.000	11.032	0.000	10.626	80.20	0.000

Untitled

 #####
 Dolphin Point - Existing

Continuous run: block 1 of 2
 Results for period from 0: 0.0 1/ 1/1990
 to 1:20.0 1/ 1/1990

 #####

ROUTING INCREMENT (MINS) = 0.20
 STORM DURATION (MINS) = 120.
 RETURN PERIOD (YRS) = 100.
 BX = 1.0000
 TOTAL OF FIRST SUB-AREAS (km2) = 78.35
 TOTAL OF SECOND SUB-AREAS (km2) = 4.12
 TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2 (mm)	Cont. #1 (mm/h)	Loss #2 (mm/h)	Excess #1 (mm)	Rain #2 (mm)	Peak Inflow (m ³ /s)	Time to Peak mins	Link Lag mins
CatE	74.619	25.00	2.500	1.500	0.000	104.09	128.08	2.266	45.00	0.000
CatA	74.619	25.00	2.500	1.500	0.000	104.09	128.08	5.683	40.00	0.000
CatF	74.619	25.00	2.500	1.500	0.000	104.09	128.08	7.922	45.00	0.000
CatB	74.619	25.00	2.500	1.500	0.000	104.09	128.08	11.004	45.00	0.000
CatG	74.619	25.00	2.500	1.500	0.000	104.09	128.08	2.205	40.00	0.000
CatC	74.619	25.00	2.500	1.500	0.000	104.09	128.08	5.939	40.00	0.000
CatH	74.619	25.00	2.500	1.500	0.000	104.09	128.08	6.198	58.20	0.000
CatD	74.619	25.00	2.500	1.500	0.000	104.09	128.08	7.916	40.00	0.000
Outlet	74.619	25.00	0.000	1.500	0.000	104.09	0.000	30.398	40.00	0.000

Untitled

```

LINK CatE          1.000
ESTIMATED VOLUME (CU METRES*10**3) =      2.000
ESTIMATED PEAK FLOW      (CUMEDS) =      0.96
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatA          1.001
ESTIMATED VOLUME (CU METRES*10**3) =      3.636
ESTIMATED PEAK FLOW      (CUMEDS) =      1.83
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatF          2.000
ESTIMATED VOLUME (CU METRES*10**3) =      9.837
ESTIMATED PEAK FLOW      (CUMEDS) =      4.57
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatB          2.001
ESTIMATED VOLUME (CU METRES*10**3) =     11.78
ESTIMATED PEAK FLOW      (CUMEDS) =      5.58
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatG          3.000
ESTIMATED VOLUME (CU METRES*10**3) =      1.660
ESTIMATED PEAK FLOW      (CUMEDS) =      0.81
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatC          3.001
ESTIMATED VOLUME (CU METRES*10**3) =      3.705
ESTIMATED PEAK FLOW      (CUMEDS) =      1.87
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatH          4.000
ESTIMATED VOLUME (CU METRES*10**3) =     10.13
ESTIMATED PEAK FLOW      (CUMEDS) =      4.54
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatD          4.001
ESTIMATED VOLUME (CU METRES*10**3) =     11.33
ESTIMATED PEAK FLOW      (CUMEDS) =      5.19
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK Outlet        1.002
ESTIMATED VOLUME (CU METRES*10**3) =     30.46
ESTIMATED PEAK FLOW      (CUMEDS) =     14.47
ESTIMATED TIME TO PEAK      (MINS) =      80.20

```

```

#####
#####
Dolphin Point - Existing

```

```

Continuous run: block 2 of 2
Results for period from 1:20.0 1/ 1/1990
to 2:40.0 1/ 1/1990

```

```

#####
#####

```

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	5.600	0.2900	6.700	6.700	.1000	99.00	.035	.015	.0311	.0003	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	6.310	0.3300	4.800	4.800	1.000	99.00	.035	.015	.0375	.0004	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	6.600	0.3500	4.800	4.800	1.000	99.00	.035	.035	.0384	.0010	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	4.220	0.2200	6.400	6.400	1.000	99.00	.035	.015	.0263	.0003	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
CatE	74.619	0.000	0.000	1.500	0.000	17.576	18.571	0.9583	80.20	0.000
CatA	74.619	0.000	0.000	1.500	0.000	17.576	18.571	1.827	80.20	0.000
CatF	74.619	0.000	0.000	1.500	0.000	17.576	18.571	4.571	80.20	0.000
CatB	74.619	0.000	0.000	1.500	0.000	17.576	18.571	5.577	80.20	0.000
CatG	74.619	0.000	0.000	1.500	0.000	17.576	18.571	0.8126	80.20	0.000
CatC	74.619	0.000	0.000	1.500	0.000	17.576	18.571	1.871	80.20	0.000
CatH	74.619	0.000	0.000	1.500	0.000	17.576	18.571	4.543	80.20	0.000
CatD	74.619	0.000	0.000	1.500	0.000	17.576	18.571	5.194	80.20	0.000
Outlet	74.619	0.000	0.000	1.500	0.000	17.576	0.000	14.468	80.20	0.000

1 yr 720mm

Untitled

#####

#####

Dolphin Point - Existing Proposed.

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 6:40.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 720.
RETURN PERIOD (YRS) = 1.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.2750	400.0	0.000
CatA	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.7023	400.0	0.000
CatF	7.225	25.00	2.500	1.500	0.000	18.130	42.555	1.099	400.0	0.000
CatB	7.225	25.00	2.500	1.500	0.000	18.130	42.555	1.570	400.0	0.000
CatG	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.2536	400.0	0.000
CatC	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.7459	400.0	0.000
CatH	7.225	25.00	2.500	1.500	0.000	18.130	42.555	0.8408	400.0	0.000
CatD	7.225	25.00	2.500	1.500	0.000	18.130	42.555	1.168	400.0	0.000
outlet	7.225	25.00	0.000	1.500	0.000	18.130	0.000	4.187	400.0	0.000

Untitled

LINK CatE 1.000
ESTIMATED VOLUME (CU METRES*10**3) = 2.528
ESTIMATED PEAK FLOW (CUMECS) = 0.39
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatA 1.001
ESTIMATED VOLUME (CU METRES*10**3) = 4.937
ESTIMATED PEAK FLOW (CUMECS) = 0.86
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatF 2.000
ESTIMATED VOLUME (CU METRES*10**3) = 11.28
ESTIMATED PEAK FLOW (CUMECS) = 1.57
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatB 2.001
ESTIMATED VOLUME (CU METRES*10**3) = 14.02
ESTIMATED PEAK FLOW (CUMECS) = 2.10
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatG 3.000
ESTIMATED VOLUME (CU METRES*10**3) = 2.182
ESTIMATED PEAK FLOW (CUMECS) = 0.35
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatC 3.001
ESTIMATED VOLUME (CU METRES*10**3) = 5.075
ESTIMATED PEAK FLOW (CUMECS) = 0.90
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatH 4.000
ESTIMATED VOLUME (CU METRES*10**3) = 10.53
ESTIMATED PEAK FLOW (CUMECS) = 1.29
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK CatD 4.001
ESTIMATED VOLUME (CU METRES*10**3) = 12.34
ESTIMATED PEAK FLOW (CUMECS) = 1.65
ESTIMATED TIME TO PEAK (MINS) = 420.00

LINK Outlet 1.002
ESTIMATED VOLUME (CU METRES*10**3) = 36.37
ESTIMATED PEAK FLOW (CUMECS) = 5.51
ESTIMATED TIME TO PEAK (MINS) = 420.00

Dolphin Point - Existing

Continuous run: block 2 of 2
Results for period from 6:40.0 1/ 1/1990
to 13:20.0 1/ 1/1990

#####

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1	Loss #2 (mm)	Cont. #1	Loss #2 (mm/h)	Excess #1	Rain #2 (mm)	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.3879	420.0	0.000
CatA	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.8575	420.0	0.000
CatF	7.225	0.000	0.000	1.500	0.000	34.421	41.645	1.575	420.0	0.000
CatB	7.225	0.000	0.000	1.500	0.000	34.421	41.645	2.101	420.0	0.000
CatG	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.3532	420.0	0.000
CatC	7.225	0.000	0.000	1.500	0.000	34.421	41.645	0.9044	420.0	0.000
CatH	7.225	0.000	0.000	1.500	0.000	34.421	41.645	1.291	420.0	0.000
CatD	7.225	0.000	0.000	1.500	0.000	34.421	41.645	1.646	420.0	0.000
Outlet	7.225	0.000	0.000	1.500	0.000	34.421	0.000	5.509	420.0	0.000

Syr 90mm

Untitled

#####

#####

Dolphin Point - Existing *Proposed*

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 1:20.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 0.20
STORM DURATION (MINS) = 90.
RETURN PERIOD (YRS) = 5.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	47.375	25.00	2.500	1.500	0.000	42.607	66.572	0.7218	45.00	0.000
CatA	47.375	25.00	2.500	1.500	0.000	42.607	66.572	2.682	30.00	0.000
CatF	47.375	25.00	2.500	1.500	0.000	42.607	66.572	2.758	55.00	0.000
CatB	47.375	25.00	2.500	1.500	0.000	42.607	66.572	4.226	30.00	0.000
CatG	47.375	25.00	2.500	1.500	0.000	42.607	66.572	0.6983	45.00	0.000
CatC	47.375	25.00	2.500	1.500	0.000	42.607	66.572	2.935	30.00	0.000
CatH	47.375	25.00	2.500	1.500	0.000	42.607	66.572	2.191	60.00	0.000
CatD	47.375	25.00	2.500	1.500	0.000	42.607	66.572	3.123	30.00	0.000
Outlet	47.375	25.00	0.000	1.500	0.000	42.607	0.000	12.966	30.00	0.000

Untitled

LINK CatE	1.000	
ESTIMATED VOLUME (CU METRES*10**3) =		0.6104
ESTIMATED PEAK FLOW (CUMECS) =		0.36
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatA	1.001	
ESTIMATED VOLUME (CU METRES*10**3) =		0.8300
ESTIMATED PEAK FLOW (CUMECS) =		0.59
ESTIMATED TIME TO PEAK (MINS) =		80.60
LINK CatF	2.000	
ESTIMATED VOLUME (CU METRES*10**3) =		3.202
ESTIMATED PEAK FLOW (CUMECS) =		1.76
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatB	2.001	
ESTIMATED VOLUME (CU METRES*10**3) =		3.473
ESTIMATED PEAK FLOW (CUMECS) =		2.02
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatG	3.000	
ESTIMATED VOLUME (CU METRES*10**3) =		0.4822
ESTIMATED PEAK FLOW (CUMECS) =		0.31
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatC	3.001	
ESTIMATED VOLUME (CU METRES*10**3) =		0.7799
ESTIMATED PEAK FLOW (CUMECS) =		0.59
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatH	4.000	
ESTIMATED VOLUME (CU METRES*10**3) =		3.520
ESTIMATED PEAK FLOW (CUMECS) =		1.72
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK CatD	4.001	
ESTIMATED VOLUME (CU METRES*10**3) =		3.682
ESTIMATED PEAK FLOW (CUMECS) =		1.88
ESTIMATED TIME TO PEAK (MINS) =		80.20
LINK Outlet	1.002	
ESTIMATED VOLUME (CU METRES*10**3) =		8.765
ESTIMATED PEAK FLOW (CUMECS) =		5.08
ESTIMATED TIME TO PEAK (MINS) =		80.20

 #####
 Dolphin Point - Existing

Continuous run: block 2 of 2
 Results for period from 1:20.0 1/ 1/1990
 to 2:40.0 1/ 1/1990

 #####

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	47.375	0.000	0.000	1.500	0.000	1.708	1.953	0.3644	80.20	0.000
CatA	47.375	0.000	0.000	1.500	0.000	1.708	1.953	0.5905	80.60	0.000
CatF	47.375	0.000	0.000	1.500	0.000	1.708	1.953	1.761	80.20	0.000
CatB	47.375	0.000	0.000	1.500	0.000	1.708	1.953	2.024	80.20	0.000
CatG	47.375	0.000	0.000	1.500	0.000	1.708	1.953	0.3085	80.20	0.000
CatC	47.375	0.000	0.000	1.500	0.000	1.708	1.953	0.5861	80.20	0.000
CatH	47.375	0.000	0.000	1.500	0.000	1.708	1.953	1.723	80.20	0.000
CatD	47.375	0.000	0.000	1.500	0.000	1.708	1.953	1.883	80.20	0.000
outlet	47.375	0.000	0.000	1.500	0.000	1.708	0.000	5.080	80.20	0.000

20yr 40min

Untitled

#####

#####

Dolphin Point - Existing Proposed

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 1:20.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 0.20
STORM DURATION (MINS) = 90.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	64.622	25.00	2.500	1.500	0.000	67.625	91.720	1.307	40.20	0.000
CatA	64.622	25.00	2.500	1.500	0.000	67.625	91.720	4.493	30.00	0.000
CatF	64.622	25.00	2.500	1.500	0.000	67.625	91.720	4.742	45.00	0.000
CatB	64.622	25.00	2.500	1.500	0.000	67.625	91.720	7.389	30.00	0.000
CatG	64.622	25.00	2.500	1.500	0.000	67.625	91.720	1.268	39.80	0.000
CatC	64.622	25.00	2.500	1.500	0.000	67.625	91.720	4.884	30.00	0.000
CatH	64.622	25.00	2.500	1.500	0.000	67.625	91.720	3.760	55.00	0.000
CatD	64.622	25.00	2.500	1.500	0.000	67.625	91.720	5.505	30.00	0.000
Outlet	64.622	25.00	0.000	1.500	0.000	67.625	0.000	22.271	30.00	0.000

Untitled

```

LINK CatE          1.000
ESTIMATED VOLUME (CU METRES*10**3) =      0.7610
ESTIMATED PEAK FLOW      (CUMECS) =      0.46
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatA          1.001
ESTIMATED VOLUME (CU METRES*10**3) =      1.049
ESTIMATED PEAK FLOW      (CUMECS) =      0.77
ESTIMATED TIME TO PEAK      (MINS) =      80.80

LINK CatF          2.000
ESTIMATED VOLUME (CU METRES*10**3) =      4.075
ESTIMATED PEAK FLOW      (CUMECS) =      2.47
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatB          2.001
ESTIMATED VOLUME (CU METRES*10**3) =      4.431
ESTIMATED PEAK FLOW      (CUMECS) =      2.83
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatG          3.000
ESTIMATED VOLUME (CU METRES*10**3) =      0.6085
ESTIMATED PEAK FLOW      (CUMECS) =      0.39
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatC          3.001
ESTIMATED VOLUME (CU METRES*10**3) =      0.9986
ESTIMATED PEAK FLOW      (CUMECS) =      0.77
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatH          4.000
ESTIMATED VOLUME (CU METRES*10**3) =      4.559
ESTIMATED PEAK FLOW      (CUMECS) =      2.53
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK CatD          4.001
ESTIMATED VOLUME (CU METRES*10**3) =      4.768
ESTIMATED PEAK FLOW      (CUMECS) =      2.76
ESTIMATED TIME TO PEAK      (MINS) =      80.20

LINK Outlet        1.002
ESTIMATED VOLUME (CU METRES*10**3) =      11.25
ESTIMATED PEAK FLOW      (CUMECS) =      7.13
ESTIMATED TIME TO PEAK      (MINS) =      80.20

```

```

#####
#####
Dolphin Point - Existing

```

```

Continuous run: block 2 of 2
Results for period from 1:20.0 1/ 1/1990
to 2:40.0 1/ 1/1990

```

```

#####
#####

```

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak mins	Link Lag mins
CatE	64.622	0.000	0.000	1.500	0.000	2.419	2.664	0.4610	80.20	0.000
CatA	64.622	0.000	0.000	1.500	0.000	2.419	2.664	0.7726	80.80	0.000
CatF	64.622	0.000	0.000	1.500	0.000	2.419	2.664	2.474	80.20	0.000
CatB	64.622	0.000	0.000	1.500	0.000	2.419	2.664	2.833	80.20	0.000
CatG	64.622	0.000	0.000	1.500	0.000	2.419	2.664	0.3912	80.20	0.000
CatC	64.622	0.000	0.000	1.500	0.000	2.419	2.664	0.7678	80.20	0.000
CatH	64.622	0.000	0.000	1.500	0.000	2.419	2.664	2.534	80.20	0.000
CatD	64.622	0.000	0.000	1.500	0.000	2.419	2.664	2.759	80.20	0.000
outlet	64.622	0.000	0.000	1.500	0.000	2.419	0.000	7.128	80.20	0.000

100% down

Untitled

#####

#####

Dolphin Point - Existing *Proposed*

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 1:20.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 0.20
STORM DURATION (MINS) = 90.
RETURN PERIOD (YRS) = 100.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. #1 (mm)	Loss #2	Cont. #1 (mm/h)	Loss #2	Excess #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
CatE	88.364	25.00	2.500	1.500	0.000	101.91	126.07	2.072	37.40	0.000
CatA	88.364	25.00	2.500	1.500	0.000	101.91	126.07	6.447	30.00	0.000
CatF	88.364	25.00	2.500	1.500	0.000	101.91	126.07	7.599	42.60	0.000
CatB	88.364	25.00	2.500	1.500	0.000	101.91	126.07	11.495	30.00	0.000
CatG	88.364	25.00	2.500	1.500	0.000	101.91	126.07	1.986	35.00	0.000
CatC	88.364	25.00	2.500	1.500	0.000	101.91	126.07	7.084	30.00	0.000
CatH	88.364	25.00	2.500	1.500	0.000	101.91	126.07	5.889	51.20	0.000
CatD	88.364	25.00	2.500	1.500	0.000	101.91	126.07	8.153	30.00	0.000
outlet	88.364	25.00	0.000	1.500	0.000	101.91	0.000	33.179	30.00	0.000

Untitled

LINK CatE 1.000
 ESTIMATED VOLUME (CU METRES*10**3) = 1.034
 ESTIMATED PEAK FLOW (CUMECS) = 0.70
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatA 1.001
 ESTIMATED VOLUME (CU METRES*10**3) = 1.451
 ESTIMATED PEAK FLOW (CUMECS) = 1.18
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatF 2.000
 ESTIMATED VOLUME (CU METRES*10**3) = 5.561
 ESTIMATED PEAK FLOW (CUMECS) = 3.45
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatB 2.001
 ESTIMATED VOLUME (CU METRES*10**3) = 6.073
 ESTIMATED PEAK FLOW (CUMECS) = 4.01
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatG 3.000
 ESTIMATED VOLUME (CU METRES*10**3) = 0.8244
 ESTIMATED PEAK FLOW (CUMECS) = 0.58
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatC 3.001
 ESTIMATED VOLUME (CU METRES*10**3) = 1.385
 ESTIMATED PEAK FLOW (CUMECS) = 1.17
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatH 4.000
 ESTIMATED VOLUME (CU METRES*10**3) = 6.177
 ESTIMATED PEAK FLOW (CUMECS) = 3.52
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK CatD 4.001
 ESTIMATED VOLUME (CU METRES*10**3) = 6.478
 ESTIMATED PEAK FLOW (CUMECS) = 3.88
 ESTIMATED TIME TO PEAK (MINS) = 80.20

LINK Outlet 1.002
 ESTIMATED VOLUME (CU METRES*10**3) = 15.39
 ESTIMATED PEAK FLOW (CUMECS) = 10.24
 ESTIMATED TIME TO PEAK (MINS) = 80.20

 #####
 Doplhin Point - Existing

Continuous run: block 2 of 2
 Results for period from 1:20.0 1/ 1/1990
 to 2:40.0 1/ 1/1990

 #####

Untitled

SUMMARY OF CATCHMENT AND RAINFALL DATA											
Link Label	Catch. Area		Slope		% Impervious		Pern		B		Link
No.	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
Outlet 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity	Init. Loss		Cont. Loss		Excess	Rain	Peak Inflow	Time to Peak	Link Lag
	(mm/h)	#1	#2	#1	#2	#1	#2	(m ³ /s)	mins	
CatE	88.364	0.000	0.000	1.500	0.000	3.652	3.897	0.6960	80.20	0.000
CatA	88.364	0.000	0.000	1.500	0.000	3.652	3.897	1.184	80.20	0.000
CatF	88.364	0.000	0.000	1.500	0.000	3.652	3.897	3.445	80.20	0.000
CatB	88.364	0.000	0.000	1.500	0.000	3.652	3.897	4.007	80.20	0.000
CatG	88.364	0.000	0.000	1.500	0.000	3.652	3.897	0.5772	80.20	0.000
CatC	88.364	0.000	0.000	1.500	0.000	3.652	3.897	1.167	80.20	0.000
CatH	88.364	0.000	0.000	1.500	0.000	3.652	3.897	3.519	80.20	0.000
CatD	88.364	0.000	0.000	1.500	0.000	3.652	3.897	3.884	80.20	0.000
Outlet	88.364	0.000	0.000	1.500	0.000	3.652	0.000	10.242	80.20	0.000

lyr 1440 min.

Untitled

#####

Dolphin Point - Existing Proposed + OSP

Results for period from 0: 0.0 1/ 1/1990
to 2:40.0 2/ 1/1990

#####

ROUTING INCREMENT (MINS) = 2.00
STORM DURATION (MINS) = 1440.
RETURN PERIOD (YRS) = 1.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
osdA 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
osdB 2.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
osdC 3.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
osdD 4.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
Outlet 1.003	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess Rain #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
CatE	4.732	25.00	2.500	1.500	0.000	67.552	111.06	0.2791	720.0	0.000
CatA	4.732	25.00	2.500	1.500	0.000	67.552	111.06	0.5837	720.0	0.000
osdA	4.732	25.00	0.000	1.500	0.000	67.552	0.000	0.5837	720.0	0.000
CatF	4.732	25.00	2.500	1.500	0.000	67.552	111.06	1.187	720.0	0.000
CatB	4.732	25.00	2.500	1.500	0.000	67.552	111.06	1.530	720.0	0.000
osdB	4.732	25.00	0.000	1.500	0.000	67.552	0.000	1.530	720.0	0.000

	Untitled									
CatG	4.732	25.00	2.500	1.500	0.000	67.552	111.06	0.2477	720.0	0.000
CatC	4.732	25.00	2.500	1.500	0.000	67.552	111.06	0.6072	720.0	0.000
osdC	4.732	25.00	0.000	1.500	0.000	67.552	0.000	0.6072	720.0	0.000
CatH	4.732	25.00	2.500	1.500	0.000	67.552	111.06	1.036	720.0	0.000
CatD	4.732	25.00	2.500	1.500	0.000	67.552	111.06	1.266	720.0	0.000
osdD	4.732	25.00	0.000	1.500	0.000	67.552	0.000	1.266	720.0	0.000
outlet	4.732	25.00	0.000	1.500	0.000	67.552	0.000	3.872	722.0	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m ³ /s)	Time to Peak	Peak Outflow (m ³ /s)	Total Inflow (m ³)	----- Vol. Avail	Basin Vol. Used	----- Stage Used
osdA	720.0	.5837	720.0	.5699	9387.8	0.0000	373.15	0.2035
osdB	720.0	1.530	722.0	1.499	23463.8	0.0000	562.98	0.2165
osdC	720.0	.6072	722.0	.5906	9866.4	0.0000	469.79	0.2013
osdD	720.0	1.265	722.0	1.213	19916.8	0.0000	661.34	0.2229

Syr 270mm

Untitled

#####

Dolphin Point - Existing Proposed OSD

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 3:20.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 0.50
STORM DURATION (MINS) = 270.
RETURN PERIOD (YRS) = 5.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
osdA 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
osdB 2.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
osdC 3.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
osdD 4.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
Outlet 1.003	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess Rain #1 (mm)	Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
CatE	24.225	25.00	2.500	1.500	0.000	69.003	95.103	0.8863	90.00	0.000
CatA	24.225	25.00	2.500	1.500	0.000	69.003	95.103	1.862	90.00	0.000
osdA	24.225	25.00	0.000	1.500	0.000	69.003	0.000	1.862	90.00	0.000
CatF	24.225	25.00	2.500	1.500	0.000	69.003	95.103	3.172	90.00	0.000
CatB	24.225	25.00	2.500	1.500	0.000	69.003	95.103	4.281	90.00	0.000
osdB	24.225	25.00	0.000	1.500	0.000	69.003	0.000	4.281	90.00	0.000

Untitled

CatG	24.225	25.00	2.500	1.500	0.000	69.003	95.103	0.8281	90.00	0.000
CatC	24.225	25.00	2.500	1.500	0.000	69.003	95.103	2.000	75.00	0.000
osdC	24.225	25.00	0.000	1.500	0.000	69.003	0.000	2.000	75.00	0.000
CatH	24.225	25.00	2.500	1.500	0.000	69.003	95.103	2.380	90.00	0.000
CatD	24.225	25.00	2.500	1.500	0.000	69.003	95.103	3.115	90.00	0.000
osdD	24.225	25.00	0.000	1.500	0.000	69.003	0.000	3.115	90.00	0.000
outlet	24.225	25.00	0.000	1.500	0.000	69.003	0.000	10.636	90.50	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m ³ /s)	Time to Peak	Peak Outflow (m ³ /s)	Total Inflow (m ³)	----- Vol. Avail	Basin ----- Vol. Used	----- Stage Used
osdA	90.00	1.861	90.00	1.788	8397.0	0.0000	543.03	0.2715
osdB	90.00	4.281	90.50	4.070	20595.5	0.0000	707.15	0.2829
osdC	75.00	1.999	90.50	1.911	8837.5	0.0000	753.00	0.2824
osdD	90.00	3.114	91.00	2.869	16957.3	0.0000	680.81	0.2553

20yr 120min

Untitled

#####

#####

Dolphin Point - Existing

Proposed + OSD

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 1:20.0 1/ 1/1990

#####

ROUTING INCREMENT (MINS) = 0.20
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatH 1.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 1.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
osdD 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatE 2.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 2.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
osdA 2.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatF 3.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 3.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
osdB 3.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatG 4.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 4.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
osdC 4.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
Outlet 1.003	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess Rain #1 (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatH	54.449	25.00	2.500	1.500	0.000	70.406	94.311	4.074	65.00	0.000
CatD	54.449	25.00	2.500	1.500	0.000	70.406	94.311	5.057	40.00	0.000
osdD	54.449	25.00	0.000	1.500	0.000	70.406	0.000	5.057	40.00	0.000
CatE	54.449	25.00	2.500	1.500	0.000	70.406	94.311	1.384	45.00	0.000
CatA	54.449	25.00	2.500	1.500	0.000	70.406	94.311	3.912	40.00	0.000
osdA	54.449	25.00	0.000	1.500	0.000	70.406	0.000	3.912	40.00	0.000

Untitled

CatF	54.449	25.00	2.500	1.500	0.000	70.406	94.311	4.948	56.80	0.000
CatB	54.449	25.00	2.500	1.500	0.000	70.406	94.311	6.946	40.00	0.000
osdB	54.449	25.00	0.000	1.500	0.000	70.406	0.000	6.946	40.00	0.000
CatG	54.449	25.00	2.500	1.500	0.000	70.406	94.311	1.382	45.00	0.000
CatC	54.449	25.00	2.500	1.500	0.000	70.406	94.311	4.255	40.00	0.000
osdC	54.449	25.00	0.000	1.500	0.000	70.406	0.000	4.255	40.00	0.000
outlet	54.449	25.00	0.000	1.500	0.000	70.406	0.000	17.942	40.40	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m ³ /s)	Time to Peak	Peak Outflow (m ³ /s)	Total Inflow (m ³)	----- Vol. Avail	Basin ----- Vol. Used	Stage Used
osdB	40.00	5.056	65.20	4.649	13718.4	0.0000	894.36	0.2824
osdA	40.00	3.912	40.40	3.516	7869.8	0.0000	626.63	0.2892
osdB	40.00	6.946	40.40	6.365	17838.2	0.0000	716.99	0.2689
osdC	40.00	4.254	41.00	3.719	8349.1	0.0000	847.36	0.2991

100yr 120min.

Untitled

#####

#####

Dolphin Point - Existing Proposed + OSD

Continuous run: block 1 of 2
Results for period from 0: 0.0 1/ 1/1990
to 1:20.0 1/ 1/1990

#####

#####

ROUTING INCREMENT (MINS) = 0.20
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 100.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 66.39
TOTAL OF SECOND SUB-AREAS (km2) = 16.08
TOTAL OF ALL SUB-AREAS (km2) = 82.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label No.	Catch. Area		Slope		% Impervious		Pern		B		Link
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
	(ha)		(%)		(%)						
CatE 1.000	5.450	0.2900	4.700	4.700	1.000	99.00	.060	.015	.0536	.0004	
CatA 1.001	2.650	3.240	6.700	6.700	.1000	99.00	.035	.015	.0211	.0011	
osdA 1.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatF 2.000	23.730	1.250	6.000	6.000	1.000	99.00	.060	.015	.1019	.0007	
CatB 2.001	2.990	3.650	4.800	4.800	1.000	99.00	.035	.015	.0254	.0014	
osdB 2.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatG 3.000	4.790	0.2500	5.600	5.600	1.000	99.00	.060	.015	.0459	.0003	
CatC 3.001	3.130	3.820	4.800	4.800	1.000	99.00	.035	.035	.0260	.0035	
osdC 3.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
CatH 4.000	21.650	1.140	3.900	3.900	1.000	99.00	.060	.015	.1205	.0008	
CatD 4.001	2.000	2.440	6.400	6.400	1.000	99.00	.035	.015	.0179	.0010	
osdD 4.002	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	
Outlet 1.003	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess Rain #1 (mm)	Rain #2	Peak Inflow (m ³ /s)	Time to Peak	Link Lag mins
CatE	74.619	25.00	2.500	1.500	0.000	104.09	128.08	2.266	45.00	0.000
CatA	74.619	25.00	2.500	1.500	0.000	104.09	128.08	5.796	40.00	0.000
osdA	74.619	25.00	0.000	1.500	0.000	104.09	0.000	5.796	40.00	0.000
CatF	74.619	25.00	2.500	1.500	0.000	104.09	128.08	7.922	45.00	0.000
CatB	74.619	25.00	2.500	1.500	0.000	104.09	128.08	11.220	40.00	0.000
osdB	74.619	25.00	0.000	1.500	0.000	104.09	0.000	11.220	40.00	0.000

Untitled

CatG	74.619	25.00	2.500	1.500	0.000	104.09	128.08	2.205	40.00	0.000
CatC	74.619	25.00	2.500	1.500	0.000	104.09	128.08	6.338	40.00	0.000
osdC	74.619	25.00	0.000	1.500	0.000	104.09	0.000	6.338	40.00	0.000
CatH	74.619	25.00	2.500	1.500	0.000	104.09	128.08	6.198	58.20	0.000
CatD	74.619	25.00	2.500	1.500	0.000	104.09	128.08	7.929	40.00	0.000
osdD	74.619	25.00	0.000	1.500	0.000	104.09	0.000	7.929	40.00	0.000
outlet	74.619	25.00	0.000	1.500	0.000	104.09	0.000	29.328	40.40	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m ³ /s)	Time to Peak	Peak Outflow (m ³ /s)	Total Inflow (m ³)	----- Vol. Avail	Basin Vol. Used	----- Stage Used
osdA	40.00	5.795	40.20	5.492	11489.7	0.0000	628.25	0.2900
osdB	40.00	11.22	40.40	10.65	27062.4	0.0000	774.06	0.2903
osdC	40.00	6.338	40.40	5.918	12107.6	0.0000	896.88	0.2990
osdD	40.00	7.929	40.40	7.290	21308.3	0.0000	874.88	0.2763