Run started at: 6th September 2010 10:33:42

RUNTIME RESULTS ****************** ##### Max. no. of links allowed = 1500 Max. no. of routng increments allowed = 250000 Max. no. of rating curve points = 250000 Max. no. of storm temporal points = 250000 Max. no. of channel subreaches = 25 Max link stack level = 50 Input Version number = 800 1.000 LINK S1.0 ESTIMATED VOLUME (CU METRES*10**3) = 307.6 ESTIMATED PEAK FLOW (CUMECS) =25. ESTIMATED TIME TO PEAK (MINS) =331.00 LINK S3.0 1.000 ESTIMATED VOLUME (CU METRES*10**3) = 24.94 ESTIMATED PEAK FLOW 2.4 (CUMECS) =ESTIMATED TIME TO PEAK (MINS) =300.00 1.000 LINK D1 ESTIMATED VOLUME (CU METRES*10**3) = 332.6 ESTIMATED PEAK FLOW (CUMECS) =27. ESTIMATED TIME TO PEAK 335.00 (MINS) =LINK S2.0 1.000 ESTIMATED VOLUME (CU METRES*10**3) = 45.05 ESTIMATED PEAK FLOW (CUMECS) =2.9 345.00 ESTIMATED TIME TO PEAK (MINS) =1.000 LINK B 45.60 ESTIMATED VOLUME (CU METRES*10**3) = ESTIMATED PEAK FLOW (CUMECS) =3.3 ESTIMATED TIME TO PEAK (MINS) =300.00 LINK B1 1.000 ESTIMATED VOLUME (CU METRES*10**3) = 1.752 0.17 (CUMECS) =ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK (MINS) =318.00 LINK S2.1 1.000

ESTIMATED ESTIMATED ESTIMATED	VOLUME (CU METRES PEAK FLOW TIME TO PEAK	5*10**3) = (CUMECS) = (MINS) =	174.4 11. 330.00
	1.00		
ESTIMATED	VOLUME (CU METRES	5*10**3) =	36.99
ESTIMATED ESTIMATED	VOLUME (CU METRES PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	3.2 300.00
	1.00		
ESTIMATED	VOLUME (CU METRES	5*10**3) =	47.74
ESTIMATED	TIME TO PEAK	5*10**3) = (CUMECS) = (MINS) =	3.0 347.00
LINK D2	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	591.3
ESTIMATED	TIME TO PEAK	5*10**3) = (CUMECS) = (MINS) =	42 330.00
LINK S5.0	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	23.4
ESTIMATED	TIME TO PEAK	5*10**3) = (CUMECS) = (MINS) =	2.2 300.00
LINK D3	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	615.
ESTIMATED	VOLUME (CU METRES PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	44 337.00
LINK 51.2	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	69.6
ESTIMATED	TIME TO PEAK	5*10**3) = (CUMECS) = (MINS) =	5.3 331.00
LINK S7.0	1.00	00	
	VOLUME (CU METRES		265.0
	PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	21 300.00
LINK D4	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	950.3
ESTIMATED ESTIMATED	PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	66 331.0
LINK S9.0	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	14.4
ESTIMATED ESTIMATED	PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	1.4 300.00
LINK A	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	50.10
	PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	4.2 300.00
LINK S6.0	1.00	00	
ESTIMATED	VOLUME (CU METRES	5*10**3) =	98.5
ESTIMATED	PEAK FLOW TIME TO PEAK	(CUMECS) = (MINS) =	7.2 330.00

LINK D5	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	1063. 73. 333.00
LINK S10.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	20.98 1.8 330.00
LINK S8.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	(CUMECS) = AK (MINS) =	81.28 6.5 300.00
LINK S8.1	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	99.88 8.1 300.00
LINK D6	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	1184. 82. 335.00
LINK \$12.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	52.28 4.4 300.00
LINK S11.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	26.87 2.5 300.00
LINK D7	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	1263. 87. 339.00
LINK S13.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	167.1 15. 300.00
LINK S14.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE	METRES*10**3) = (CUMECS) = AK (MINS) =	7.886 0.77 300.00
LINK S14.1		
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PE		20.98 1.9 300.00
LINK D8	1.000	
	METRES*10**3) =	1451.

	(MINS) =	330.00
LINK \$16.0	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	87.47 8.5 300.00
LINK S15.0	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	TRES*10**3) = (CUMECS) = (MINS) =	32.40 3.3 300.00
LINK D9	1.000	
	ETRES*10**3) = (CUMECS) = (MINS) =	1571. 0.11E+03 330.00
LINK 517.0	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	TRES*10**3) = (CUMECS) = (MINS) =	134.6 12. 300.00
LINK \$17.1	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	180.5 17. 300.00
LINK 518.0	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	46.57 4.3 300.00
LINK D10	1.000	
	TRES*10**3) = (CUMECS) = (MINS) =	1798. 0.12E+03 330.00
LINK 519.0	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	53.68 5.2 300.00
LINK \$20.0	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	$46.35 \\ 4.6 \\ 300.00$
LINK Outlet	1.000	
ESTIMATED VOLUME (CU ME ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	1898. 0.13E+03 327.00

ROUTING INCREMENT (MINS)	=	1.	00
STORM DURATION (MINS)	÷. I.	54	0.
RETURN PERIOD (YRS)	=	10	0.
BX	÷	1.00	00
TOTAL OF FIRST SUB-AREAS	(ha)	=	689.69
TOTAL OF SECOND SUB-AREAS TOTAL OF ALL SUB-AREAS (h	(ha)	=	386.68
TOTAL OF ALL SUB-AREAS (h	ia)	=	1076.37

SUM Link Label	Catch. #1		T AND RAINFA Slope #1 #2	% Impervious #1 #2	Pern #1 #2	в #1 #2	Link No.
s1.0	(ha) 189.00	0.000	(%) 1.700 0.000	(%) 5.000 0.000	.050 0.00	.4083 0.000	1.000
s3.0	6.840	6.840	1.200 1.200	5.000 100.0	.050 .015	.0865 .0037	2.000
D1	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.001
s2.0	28.000	0.000	.3000 0.000	5.000 0.000	.050 0.00	.3594 0.000	3.000
в	17.350	8.701	.5000 .5000	0.000 100.0	.050 .015	.2700 .0065	4.000
В1	1.073	0.000	.5000 0.000	5.000 0.000	.050 0.00	.0511 0.000	5.000
s2.1	47.903	2.521	.5000 .5000	0.000 100.0	.050 .015	.4578 .0034	3.001
s4.0	10.150	10.150	.7000 .7000	5.000 100.0	.050 .015	.1389 .0059	6.000
s1.1	29.650	0.000	.3000 0.000	5.000 0.000	.050 0.00	.3703 0.000	7.000
D2	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.002
\$5.0	6.430	6.430	1.200 1.200	5.000 100.0	.050 .015	.0837 .0036	8.000
D3	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.003
S1.2	42.887	0.000	.7000 0.000	5.000 0.000	.050 0.00	.2940 0.000	9.000
s7.0	73.180	73.180	.5000 .5000	5.000 100.0	.050 .015	.4591 .0196	10.00
D4	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.004
s9.0	3.960	3.960	1.200 1.200	5.000 100.0	.050 .015	.0651 .0028	11.00
А	13.232	14.221	.7000 .7000	0.000 100.0	.050 .025	.1983 .0142	12.00
s6.0	28.014	1.474	.7000 .7000	0.000 100.0	.050 .025	.2928 .0044	12.00
D5	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.005
s10.0	12.890	0.000	.6000 0.000	5.000 0.000	.050 0.00	.1699 0.000	13.00
\$8.0	22.360	22.360	.4000 .4000	5.000 100.0	.050 .015	.2770 .0118	14.00
S8.1	5.100	5.110	.4000 .4000	5.000 100.0	.050 .015	.1284 .0055	14.00
D6	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1,006
\$12.0	14.350	14.350	.6000 .6000	5.000 100.0	.050 .015	.1797 .0077	15.00

\$11.0	7.370	7.370	1.100 1.100	5.000 100.0	.050 .015	.0939 .0040	16.00
D7	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.007
\$13.0	45.840	45.840	1.500 1.500	5.000 100.0	.050 .015	.2080 .0089	17.00
S14.0	0.4000	3.590	.4000 .4000	5.000 100.0	.050 .015	.0342 .0046	18.00
s14.1	3.590	3.590	.5000 .5000	5.000 100.0	.050 .025	.0957 .0082	18.00
D8	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.008
\$16.0	4.430	39.830	.6000 .6000	5.000 100.0	.050 .015	.0975 .0131	19.00
s15.0	11.550	6.720	2.700 2.700	5.000 100.0	.050 .015	.0758 .0024	20.00
D9	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.009
\$17.0	21.600	49.340	.8000 .8000	5.000 100.0	.050 .015	.1925 .0126	21.00
\$17.1	2.320	20.920	.5000 .5000	5.000 100.0	.050 .015	.0763 .0102	21.00
S18.0	19.320	7.470	1.900 1.900	5.000 100.0	.050 .015	.1180 .0031	22.00
D10	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.010
S19.0	2.720	24.440	.6000 .6000	5.000 100.0	.050 .015	.0757 .0101	23.00
\$20.0	18.180	8.270	3.000 3.000	5.000 100.0	.050 .015	.0910 .0026	24.00
Outlet	.00001	0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.011
	2. CCU			and Caberra	1 A	6	Sec. 2

Link Label	Average Init. Loss Intensity #1 #2 (mm/h) (mm)	Cont. Loss #1 #2 (mm/h)	Excess Rain #1 #2 (mm)	Peak Inflow (m^3/s)	Time Link to Lag Peak mins	
\$1.0	22.560 20.00 0.000	2.500 0.000	163.33 0.000	24,609	331.0 5.000	
\$3.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	2.362	300.0 5.000	
D1	22.560 20.00 0.000	2.500 0.000	163.33 0.000	26,633	335.0 5.000	
s2.0	22.560 20.00 0.000	2.500 0.000	163.33 0.000	2.883	345.0 13.00	
в	22.560 20.00 1.500	2.500 0.000	163.33 201.54	3,283	300.0 0.000	
В1	22.560 20.00 0.000	2.500 0.000	163,33 0.000	0.1666	318.0 0.000	
\$2.1	22.560 20.00 1.500	2.500 0.000	163.33 201.54	11.087	330.0 0.000	
54.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	3.214	300.0 0.000	
S1.1	22.560 20.00 0.000	2.500 0.000	163.33 0.000	3.025	347.0 0.000	
D2	22.560 20.00 0.000	2.500 0.000	163.33 0.000	42.326	330.0 7.000	
\$5.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	2.225	300.0 0.000	
D3	22.560 20.00 0.000	2.500 0.000	163.33 0.000	43.677	337.0 3.000	
S1.2	22.560 20.00 0.000	2.500 0.000	163.33 0.000	5.306	331.0 0.000	
\$7.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	20.673	300.0 1.000	
D4	22.560 20.00 0.000	2.500 0.000	163.33 0.000	65.901	331.0 1.500	
\$9.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	1.402	300.0 0.000	

А	22.560 20.00 1.500	2.500 0.000	163.33 201.54	4.164	300.0 0.000
\$6.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	7.224	330.0 0.000
D5	22.560 20.00 0.000	2,500 0.000	163.33 0.000	73.455	333.0 1.500
S10.0	22.560 20.00 0.000	2.500 0.000	163.33 0.000	1.764	330.0 0.000
\$8.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	6.531	300.0 0.000
58.1	22.560 20.00 1.500	2.500 0.000	163.33 201.54	8.113	300.0 9.000
D6	22.560 20.00 0.000	2.500 0.000	163.33 0.000	82.434	335.0 6.000
S12.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	4.398	300.0 0.000
S11.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	2.505	300.0 0.000
D7	22.560 20.00 0.000	2.500 0.000	163.33 0.000	86.839	339.0 2.500
\$13.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	14.594	300.0 0.000
S14.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	0.7688	300.0 0.000
S14.1	22.560 20.00 1.500	2.500 0.000	163.33 201.54	1.919	300.0 9.000
D8	22.560 20.00 0.000	2.500 0.000	163.33 0.000	98.742	330.0 2.500
S16.0	22.560 20.00 1.500	2,500 0.000	163.33 201.54	8.467	300.0 0.000
\$15.0	22.560 20.00 1.500	2,500 0.000	163.33 201.54	3.289	300.0 0.000
D9	22.560 20.00 0.000	2.500 0.000	163.33 0.000	106.12	330.0 5.000
S17.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	12.188	300.0 0.000
S17.1	22.560 20.00 1.500	2.500 0.000	163.33 201.54	16.632	300.0 0.000
S18.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	4.255	300.0 0.000
D10	22.560 20.00 0.000	2.500 0.000	163.33 0.000	121.95	330.0 4.300
\$19.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	5.206	300.0 0.000
\$20.0	22.560 20.00 1.500	2.500 0.000	163.33 201.54	4.590	300.0 0.000
Outlet	22.560 20.00 0.000	2.500 0.000	163.33 0.000	129.92	327.0 0.000

Run completed at: 6th September 2010 10:33:45

Run started at: 6th September 2010 10:38:46

****************** ##### RUNTIME RESULTS ##### 1500 Max. no. of links allowed = Max. no. of routng increments allowed = 250000 Max. no. of rating curve points = 250000 Max. no. of storm temporal points = 250000 Max. no. of channel subreaches = 25 Max link stack level = 50 Input Version number = 800 LINK S1.0 1.000 ESTIMATED VOLUME (CU METRES*10**3) = ESTIMATED PEAK FLOW (CUMECS) 619.5 0.15E+03 (CUMECS) =ESTIMATED TIME TO PEAK (MINS) =51.00 LINK S3.0 1.000 ESTIMATED VOLUME (CU METRES*10**3) = 44.93 (CUMECS) = ESTIMATED PEAK FLOW 15. ESTIMATED TIME TO PEAK (MINS) =27.00 1.000 LINK D1 ESTIMATED VOLUME (CU METRES*10**3) = 664.5 ESTIMATED PEAK FLOW 0.16E+03 (CUMECS) =ESTIMATED TIME TO PEAK (MINS) =56.00 LINK S2.0 1.000 ESTIMATED VOLUME (CU METRES*10**3) = ESTIMATED PEAK FLOW (CUMECS) 90.96 (CUMECS) =14. (MINS) =ESTIMATED TIME TO PEAK 60.00 1.000 LINK B ESTIMATED VOLUME (CU METRES*10**3) = 85,17 ESTIMATED PEAK FLOW (CUMECS) =17. ESTIMATED TIME TO PEAK (MINS) =42.00 1.000 LINK B1 ESTIMATED VOLUME (CU METRES*10**3) = 3.540 ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK (CUMECS) =1.1(MINS) =36.00 LINK S2.1 1.000

ESTIMATED ESTIMATED ESTIMATED	VOLUME (CU ME PEAK FLOW TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	343.4 50. 57.00
		ETRES*10**3) = (CUMECS) = (MINS) =	66.59 19. 27.00
LINK S1.1		1.000	
		ETRES*10**3) = (CUMECS) = (MINS) =	96.46 15. 60.00
LINK D2		1.000	
		ETRES*10**3) = (CUMECS) = (MINS) =	1171. 0.23E+03 57.00
LINK S5.0		1.000	
ESTIMATED ESTIMATED ESTIMATED	VOLUME (CU ME PEAK FLOW TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	42.22 15. 27.00
LINK D3		1.000	
		ETRES*10**3) = (CUMECS) = (MINS) =	1213. 0.24E+03 64.00
LINK S1.2		1.000	
ESTIMATED ESTIMATED ESTIMATED		ETRES*10**3) = (CUMECS) = (MINS) =	$140.6 \\ 31. \\ 53.00$
LINK S7.0		1.000	
ESTIMATED ESTIMATED	VOLUME (CU ME	TRES*10**3) = (CUMECS) =	478.7 0.11E+03 27.00
LINK D4		1.000	
ESTIMATED	VOLUME (CU ME PEAK FLOW TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	1832. 0.32E+03 60.00
LINK 59.0		1.000	
ESTIMATED	VOLUME (CU ME PEAK FLOW TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	26.02 9.3 27.00
LINK A		1.000	
ESTIMATED	VOLUME (CU ME PEAK FLOW TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	90.04 23. 27.00
_INK 56.0		1.000	
ESTIMATED	VOLUME (CU ME PEAK FLOW TIME TO PEAK	ETRES*10**3) = (CUMECS) = (MINS) =	$ 186.7 \\ 44. \\ 43.00 $

	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	2045. 0.36E+03 55.00
LINK 510.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	42.24 11. 47.00
LINK S8.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	146.5 35. 27.00
LINK S8.1	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	180.0 45. 27.00
LINK D6	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	2267. 0.40E+03 57.00
LINK 512.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	(CUMECS) = AK (MINS) =	94.19 26. 27.00
LINK S11.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	48.40 16. 27.00
LINK D7	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	METRES*10**3) = (CUMECS) = AK (MINS) =	2409. 0.42E+03 57.00
LINK S13.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	(CUMECS) =	301.1 89. 27.00
LINK 514.0	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	(CUMECS) =	$13.10 \\ 5.4 \\ 9.00$
LINK 514.1	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW ESTIMATED TIME TO PEA	(CUMECS) =	36.72 12. 27.00
LINK D8	1.000	
ESTIMATED VOLUME (CU ESTIMATED PEAK FLOW	METRES*10**3) = (CUMECS) =	2747. 0.48E+03

ESTIMATED TIME TO PEAK	(MTNS) -	57.00
LINK S16.0 1.		37.00
ESTIMATED VOLUME (CU METF ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) =	145.3 58. 9.00
LINK S15.0 1.	.000	
ESTIMATED VOLUME (CU METR ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK		60.05 22. 27.00
LINK D9 1.	.000	
ESTIMATED VOLUME (CU METF ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) = (CUMECS) = (MINS) =	2952. 0.50E+03 59.00
LINK S17.0 1.	.000	
ESTIMATED VOLUME (CU METF ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK		232.8 74. 27.00
LINK S17.1 1.	.000	
ESTIMATED VOLUME (CU METF ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) =	309.1 0.10E+03 9.00
LINK S18.0 1.	.000	
ESTIMATED VOLUME (CU METR ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) = (CUMECS) = (MINS) =	88.04 29. 33.00
LINK D10 1.	. 000	
ESTIMATED VOLUME (CU METR ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK		3349. 0.57E+03 50.00
LINK S19.0 1.	.000	
ESTIMATED VOLUME (CU METR ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) = (CUMECS) = (MINS) =	89.17 36. 9.00
LINK 520.0 1.	.000	
ESTIMATED VOLUME (CU METF ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) = (CUMECS) = (MINS) =	86.89 31. 27.00
LINK Outlet 1.	.000	
ESTIMATED VOLUME (CU METR ESTIMATED PEAK FLOW ESTIMATED TIME TO PEAK	RES*10**3) = (CUMECS) = (MINS) =	3525. 0.60E+03 45.00

ROUTING INCREMENT (MINS)	(En l	1.00	
STORM DURATION (MINS)	=	60.	
RETURN PERIOD (YRS)	÷	100000.	
BX	=	1.0000	
TOTAL OF FIRST SUB-AREAS	(ha)) = 689.69	
TOTAL OF SECOND SUB-AREA TOTAL OF ALL SUB-AREAS (s (ha)) = 386.68	3
TOTAL OF ALL SUB-AREAS (ha)	= 1076.37	7

Link Label	Catch. #1		Slope #1 #		#2	Pe #1	ern #2	В #1	#2	Link No.
S1.0	(ha) 189.00	0.000	(%) 1.700 0.		(%) 0.000	.050	0.00	. 4083	0.000	1.000
\$3.0	6.840	6.840	1.200 1.	200 5.000	100.0	.050	.015	.0865	.0037	2.000
D1	.00001	0.000	.0010 0.	000 0.000	0.000	.025	0.00	.0021	0.000	1.001
s2.0	28.000	0.000	.3000 0.	000 5.000	0.000	.050	0.00	.3594	0.000	3.000
в	17.350	8.701	.5000 .5	000 0.000	100.0	.050	.015	.2700	.0065	4.000
B1	1.073	0.000	.5000 0.	000 5.000	0.000	.050	0.00	.0511	0.000	5.000
\$2.1	47.903	2.521	.5000 .5	000 0.000	100.0	.050	.015	.4578	.0034	3.001
\$4.0	10.150	10.150	.7000 .7	000 5.000	100.0	.050	.015	.1389	.0059	6.000
\$1.1	29.650	0.000	.3000 0.	000 5.000	0.000	.050	0.00	.3703	0.000	7.000
D2	.00001	0.000	.0010 0.	000 0.000	0.000	.025	0.00	.0021	0.000	1.002
\$5.0	6.430	6.430	1.200 1.	200 5.000	100.0	.050	.015	.0837	.0036	8.000
D3	.00001	0.000	.0010 0.	000 0.000	0.000	.025	0.00	.0021	0.000	1.003
S1 ,2	42.887	0.000	.7000 0.	000 5.000	0.000	.050	0.00	.2940	0.000	9.000
\$7.0	73.180	73.180	.5000 .5	000 5.000	100.0	.050	.015	.4591	.0196	10.00
D4	.00001	0.000	.0010 0.	000 0.000	0.000	.025	0.00	.0021	0.000	1.004
\$9.0	3.960	3.960	1.200 1.	200 5.000	100.0	.050	.015	.0651	.0028	11.00
A	13.232	14.221	.7000 .7	000 0.000	100.0	.050	.025	.1983	.0142	12.00
56.0	28.014	1.474	.7000 .7	000 5.000	100.0	.050	.025	.2356	.0044	12.00
D5	.00001	0.000	.0010 0.	000 0.000	0.000	.025	0.00	.0021	0.000	1.005
S10.0	12.890	0.000	.6000 0.	000 5.000	0.000	.050	0.00	.1699	0.000	13.00
58.0	22.360	22.360	.4000 .4	000 5.000	100.0	.050	.015	.2770	.0118	14.00
S8.1	5.100	5.110	.4000 .4	000 5.000	100.0	.050	.015	.1284	.0055	14.00
D6	.00001	0.000	.0010 0.	000 0.000	0.000	.025	0.00	.0021	0.000	1.006
\$12.0	14.350	14.350	.6000 .6	000 5.000	100.0	.050	.015	.1797	.0077	15.00

S11.0	7.370 7.370	1.100 1.100	5.000 100.0	.050 .015	.0939 .0040	16.00
D7	.00001 0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.007
\$13.0	45.840 45.840	1.500 1.500	5.000 100.0	.050 .015	.2080 .0089	17.00
\$14.0	0.4000 3.590	.4000 .4000	5.000 100.0	.050 .015	.0342 .0046	18.00
\$14.1	3.590 3.590	.5000 .5000	5.000 100.0	.050 .025	.0957 .0082	18.00
D8	.00001 0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.008
S16.0	4.430 39.830	.6000 .6000	5.000 100.0	.050 .015	.0975 .0131	19.00
\$15.0	11.550 6.720	2.700 2.700	5.000 100.0	.050 .015	.0758 .0024	20.00
D9	.00001 0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.009
\$17.0	21.600 49.340	.8000 .8000	5.000 100.0	.050 .015	.1925 .0126	21.00
\$17.1	2.320 20.920	.5000 .5000	5.000 100.0	.050 .015	.0763 .0102	21.00
518.0	19.320 7.470	1.900 1.900	5.000 100.0	.050 .015	.1180 .0031	22.00
D10	.00001 0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.010
\$19.0	2.720 24.440	.6000 .6000	5.000 100.0	.050 .015	.0757 .0101	23.00
s20.0	18.180 8.270	3.000 3.000	5.000 100.0	.050 .015	.0910 .0026	24.00
Outlet	.00001 0.000	.0010 0.000	0.000 0.000	.025 0.00	.0021 0.000	1.011

Link Label	Average Init. L Intensity #1 (mm/h) (mm	#2 #1 #2	Excess Rain #1 #2 (mm)	Peak Inflow (m^3/s)	Time Link to Lag Peak mins
S1.0	330.00 0.000 0.		329.00 0.000	148.78	51.00 5.000
s3.0	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	15.355	27.00 5.000
D1	330.00 20.00 0.	000 2.500 0.000	307.67 0.000	158.48	56.00 5.000
\$2.0	330.00 0.000 0.	000 1.000 0.000	329.00 0.000	14.493	60.00 13.00
в	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	16,869	42.00 0.000
В1	330.00 0.000 0.	000 1.000 0.000	329.00 0.000	1.144	36.00 0.000
s2.1	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	49.843	57.00 0.000
s4.0	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	19.298	27.00 0.000
s1.1	330.00 0.000 0.	000 1.000 0.000	329.00 0.000	15.128	60.00 0.000
D2	330.00 20.00 0.	000 2.500 0.000	307.67 0.000	233.60	57.00 7.000
s5.0	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	14.508	27.00 0.000
D3	330.00 20.00 0.	000 2.500 0.000	307.67 0.000	237.04	64.00 3.000
s1.2	330.00 0.000 0.	000 1.000 0.000	329.00 0.000	31.031	53.00 0.000
s7.0	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	110.35	27.00 1.000
D4	330.00 20.00 0.	000 2.500 0.000	307.67 0.000	319.48	60.00 1.500
\$9.0	330.00 0.000 1.	500 1.000 0.000	329.00 328.50	9.286	27.00 0.000

А	330.00 0.000 1.500	1.000 0.000	329.00 328.50	23.096	27.00 0.000
\$6.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	44.288	43.00 0.000
D5	330.00 20.00 0.000	2.500 0.000	307.67 0.000	357.57	55.00 1.500
\$10.0	330.00 0.000 0.000	1.000 0.000	329.00 0.000	10.914	47.00 0.000
\$8.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	35.479	27.00 0.000
58.1	330.00 0.000 1.500	1.000 0.000	329.00 328.50	44.688	27.00 9.000
D6	330.00 20.00 0.000	2.500 0.000	307.67 0.000	401.70	57.00 6.000
\$12.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	25.574	27.00 0.000
S11.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	16.121	27.00 0.000
D7	330.00 20.00 0.000	2.500 0.000	307.67 0.000	420.41	57.00 2.500
S13.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	88.552	27.00 0.000
S14.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	5.361	9.000 0.000
S14.1	330.00 0.000 1.500	1.000 0.000	329.00 328.50	11.955	27.00 9.000
D8	330.00 20.00 0.000	2.500 0.000	307.67 0.000	476.51	57.00 2.500
S16.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	57.766	9.000 0.000
s15.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	22.101	27.00 0.000
D9	330.00 20.00 0.000	2.500 0.000	307.67 0.000	497.91	59.00 5.000
S17.0	330.00 0.000 1,500	1.000 0.000	329.00 328.50	74.340	27.00 0.000
S17.1	330.00 0.000 1.500	1.000 0.000	329.00 328.50	104.09	9.000 0.000
S18.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	28.755	33.00 0.000
D10	330.00 20.00 0.000	2.500 0.000	307.67 0.000	570.83	50.00 4.300
\$19.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	35.863	9.000 0.000
s20.0	330.00 0.000 1.500	1.000 0.000	329.00 328.50	31.401	27.00 0.000
Outlet	330.00 20.00 0.000	2.500 0.000	307.67 0.000	599.60	45.00 0.000

Run completed at: 6th September 2010 10:38:47

This page has been left blank intentionally

Appendix E

Anzac Creek TUFLOW model inputs and results – existing and proposed conditions

This page has been left blank intentionally



The Up and a start and a set of start and the Up and Up

UB (2019) Balan Mar, (1941) DM Marcan S 2019 (1951) - Marcan Mar, (1941) DM Marcan Marcan Marcana (1944) (1944) - Marcana Marcana Marcana Marcana Marcana (1944) (1944) - Marcana Marcana Marcana Marcana (1944) (1944) - Marcana Marcana Marcana (1944) (1944) - Marcana Marcana (1944) (1944) - Marcana Marcana (1944) - Marcana Marcana (1944) - Marcana Marcana (1944) - Marcana - Marcana (1944) - Marca

al Inspery in Rowling 3211 (R

NUMBER OF STREET, STREET, STREET, STREET, STREET, ST. STREET, ST.	TERMINAL S ADUTY	0	D ADM	PTYLTE 78 104-485	200
3149 1300 @AT	Title-	Hyder	V	C. 141 Walk To Bries NO	NE 2000
TUILD M is of size: Six	ANDAE CREEK MODEL. 102 YEAR ARTFLOOD DEFTH		Fact	6+ (E)2 8407 45+ (E)2 8407 Avdexone at approphere	7-9001 ting.com
Tutum: 09484	AND FLOOD LEVEL CONTOURS FOR & MATTER & LOND THEM	Therete	Fraints	A	Dates
Prosector: MUADS			A408021E	N	01



Properties Dua

10.01

Figure Westspace Figure Westspace Figure West Generality Could Start Albert Ancas, Ch. Figure John fanal Magery I's Marridge 2211.8

NUNET NTERMEDIAL EPHINAL ALUARCE(SMTA) Scale: 1250 @A1	MOGREBANK INTERMODAL TERMINAL FACILITY	0		PTYLTE NTE 10448 el 5, 141 Wi 18 Solary N	1200 Mar 081-M
5009: 1250 @A1	18+	Hyder	1 10	(+0100299 +8100299	0098 57
101.00 040340 54	ANZAC CREAT MODEL CHANGE IN 100 YEAR AND			e Judicicum Cenvitati in	uill big c unt
Gatuar: 00404	PLOW REGIMES BETWEEN EXEMPS AND PROPOSED CONDITIONS	Figure Re-	Provilla	A	Aniue .
Projection: MOADB		22	A4000210	N	.01



2014.010 Department of Street 1000

22 which in the lot of the

IVENEV INTERMODAL IERMANALALUHALECTIMTIK	MOOREDWAN IN TERSEDIAL TERMINAL FACILITY	Huder		en yfti til staddi verift, 141 Wil rið Sulltery N	ikes Street
11419: 13800 @-AT	184	Hyder		+01,002.00	
TURLOB Dive Star Set	ANZAC LREEK MODEL PROBABLE MAXIMUMPLOOD DEF TH			e Aydencure Copyright re	
Weise (19948at	IND FLOOD LEVEL CONTOURS FOR EXISTING CONDITION	Figure No.	Property		Relat
Projection: MOUNT		83	ANDERTONE	N	01



my on this dawn groproside TUFLTW would read to britte PMP 11 ----reare taxaid on an of these law Here who by Hard and Foreight (August 2016) region shield by whether rid Phy Life (May 2)

They Agara may not a present local flow regimes as as fore the decar. These contribu-

Pare Reference PLANES 1010 Caraterowill Comm materFlood splice is for must be in implified CCT POLINES Meriop as Whit _Propriat_Heat_O_D_Inter_Heat_art restant Research by Incomings 2011-10

SYDREYINTERNELDAL TERMINALALIANCE(SMITA)	MDOREDARK INTERNODAL JERMMALFACIUTY	0	0 .	HYDER CONSULTING PTYLTO ADM 76 101 406 300 Level 3, 147 Walker Sto				
Sule 13900 @41	18+	Hyder	V	012, 141 Wi 81 Division B 1451 (202 00	GW 2060			
THE CONTINUE THE REPO	AND NO CREEK NODEL. PROMALE MADOMUM PLOOD SEPTH		74	Pack (61 802 9807 enter Bydantem alle Iso Cresy soft merer				
0#sm 03A64	AND FLOOD LEVEL CONTOLES FOR PROPOSED CONDITION	Faurtic	Propiet Sec.	A	linar			
Proscent Mitale		24	AARISS 10	N	jūr.			



WH, Min, Main, St., Stord, Magnet

Paper Rodopins 19 Mars 10 PD Takes and Charles and Principality - Revised Bad disg VRCART 1112/00104/style And Respective Spectra 2018

Ar. St. Dep²MPD, Ditte In St. PerpRetting Start
 TUFLIDW with lase the Drawtoll provides, lastral, Drawtoll provides, lastral, Drawtoll provides of the RESHARS BETWEENER, DETERMINE, LASTRAL, BETWEENER, DETERMINE, DETERMINE, DETERMINE, BETWEENER, DETERMINE, DETERMINE, DETERMINE, DETERMINE, BETWEENER, DETERMINE, DETER

NARES A INCOME





This page has been left blank intentionally

Appendix F

'Site only' DRAINS model inputs and results – existing and proposed conditions

This page has been left blank intentionally







PIT / NODE DETAILS			Version 9	a lange and the	(T)	Providence and	and and a set							land, and the second	14 mm			1	. I	1	-
Name	Туре	Family	Size	Panding	Pressure	Surface	Max Pond	Base	Blocking	k.	v	Bolt-down	iđ	Part Full	1						
1 · · · · · · · · · · · · · · · · · · ·				Volume	Change	Eley (m)	Depth (m)	Inflow	Factor	1		lid		Shock Loss			_			-	_
				(cu.m)	Coeff. Ku		Coller (ri)	(cu.m/s)	1.4466		-	ing .		Children Reine			\rightarrow		-	-	-
N4	Nada	-		Tenant	COVEN, NU	14		(cu.ins)		755 030	215.845	(33							-	
	Node			-	-	14		-	2												
N5	Node			1	1					500			34		r			P	1		
NB	Node		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		1			0	1000	150		37	l+]		T		1	111	1	
OutBEx	Node			1		13				861.078	209.629		1051047		1						
N40	Node			1		14		1		186.986		-	4370447							·	-
OutAEx	Node	-	-	-	+			-		286.406			4370448				-	-		-	_
OUMEX				-				-									-			-	
OutCEx	Nøde			-	-				2	1568.098	160.549		5647966				-			_	
N62	Node								0		-233.435	i harring the	13085144	· · · · · · · · · · · · · · · · · · ·			1				
N63	Node							(0	375,778	-312.923		13086145		1			1			
N64	Node							1	0	505,378	-451.163		13086146		-		_				-
N65	Node			1	1			1		503.65	-511.643		13086147	-			-	-	-		
N69	Node	-		-	+			-		B45.794			13086153				\rightarrow		-	-	
		-		-				-								++				-	
OutB_Prop	Node	5							D		-528.923		13086154		1		1.0	1	1.1.1.1.1	1.1.1	
N75	Node				1				0	-353,438	-210.971		14111581		1 1					1.11.1	
N76	Node								0	-356,894	-306.011		14111582		1 1			1			_
N77	Node			1	1					-189.278			14111583							_	
N7B	Node	-		-	+			-		-192.734	520.270		14111584	-	-			-	-	-	-
				-	· · · ·			-						-		$ \rightarrow $	\rightarrow		-	-	_
N79	Node									111.394	-354.395		14111585								
OutA_Prop	Node			1				(D	242.722	-480.539		14111586	1							-
N92	Node					16			0	1591,586	-387.112	1	15137076						T		
OutC Prop	Node				· · · · · ·			1 (0	1743,309	-491.164		15137077				-				
N95	Node			1	1	1		1 0	ò	1331.362			15137086								
N96				1	t			1	n l					-		+	-+			-	-
	Node			-	1			-		1503.471			15137090			++	-		-	_	_
N97	Node		-							1591.586	-533.112	1	15137091								
N169	Node							1	0	-296.422			46653709		1						
N177	Node					1		1	0	\$90.6	397.15		51463360		1 1					1	-
N224 N232	Node				N				0				66906726								
N232	Node			-				1 1		507.444			73934574							-	1
18432				-	0.0	110		1 2								←	\rightarrow		-	-	-
HW2 N50	Headwall			-	0.5			1		1164.783	240.386		83086008								_
N50	Node			hi	A	16			0	1414.306	162 277	4	5647965		4			1 I		·	
N294	Node			· · · · · · · · · · · · · · · · · · ·	(i	2 A			0	1705.992	-214.147	1	84070742	· · · · · · · · · · · · · · · · · · ·		A		to a star	1 m 1 m 1 m	i	
N320 N321	Node				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				-339,614	676.982		84400956			B					-
N321	Node			1	1			1		-345.374			84400957						-	_	
N322					+			-		-359.774	575 063		84400958	-						-	-
NOZZ	Node	_						-				-	84400338							-	_
N323	Node								0	-358.334	520.022		84400959						1.1.1.	1.1	-
N324	Node			1				1	0	-184.094			84400960		T			1	1000		
N325	Node			1	A	1			0	-181,214	597.782		84400981	<	0	1 1 1 1 1 1			1000	1	
N326 N327	Node	· · · · · · ·	1	1	1			1	0	-564.6	-189.264		84402416		i			I	· · · · · · · · · · · · · · · · · · ·	1	
N327	Node							1		-753.297	-193411		84402417							-	
N326	Node			-				-		-929.553	102 042		84402418				\rightarrow			_	
N320	NOGE	-						-		-928.000	-103.043		04402410			++				-	
N329	Node							1		260.866	-225.898	-	84402438							-	
1													1.000							_	
DETENTION BASIN DETAILS		-															· · · · · ·				-
					1		1.1	Arr													
Name	Elev	Volume	Init Vol. (cu.m)	Outlet Type	ĸ	Dia(mm)	Centre RL	Pit Family	Pit Type	×	V	HED	Crest RL	Crest Lenoth(m)	id	+				1	
Name	Elev 13.24	Volume		Outlet Type	ĸ	Dia(mm)	Centre RL	Pit Family	Pit Type	× 514.018	y 288.421	HED	Crest RL	Crest Length(m)	id 48		-			-	-
Name DetBEx	13.24	0	0	Outlet Type None	ĸ	Dia(mm)	Centre RL	Pit Family	Pit Type	× 514.018	y 288.421	HED No	Crest RL	Crest Length(m)					-		
Name DetBEx	13.24	0.015	0		×	Dia(mm)	Centre RL	Pit Family	Pit Type	× 514.018	y 288.421	HED No	Crest RL	Crest Length(m)					-		
Name DetBEx:	13.24 13.3 13.4	0 0.015 0.19	0		ĸ	Dia(mm)	Centre RL	Pit Family	Pit Type	× 514.018	y 288.421	HED No	Crest RL	Crest Length(m)				1			_
Name DetBEx	13.24 13.3 13.4 13.5	0.015 0.19 4.388	0		ĸ	Dia(mm)	Centre RL	Pit Family	Pit Type	× 514.018	y 288.421	HED No	Crest RL	Crest Length(m)							
Name DetBEX	13.24 13.3 13.4 13.5 13.6	0.015 0.19 4.388 23.299	0		ĸ	Dia(mm)	Centre RL	Fit Family	Pit Type	× 514.018	y 288,421	HED No	Crest RL	Crest Langth(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6	0.015 0.19 4.388 23.299	0		ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	y 288,421	HED No	Crest RL	Crest Length(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6 13.6 13.7	0.015 0.19 4.388	0		ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	y 289.421	HED No	Crest RL	Crest Langth(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6 13.6 13.7 13.8	0.015 0.19 4.388 23.290 70.52 162.39			×	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	У 288.421	HED No	Crest RL	Crest Langth(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6 13.6 13.7 13.7 13.7 13.9 13.9	0.015 0.19 4,388 23,290 70,52 162,39 326,236	0		×	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	у 289.421	HED No	Crest RL	Crest Langtn(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6 13.7 13.7 13.9 13.9 13.9	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 538.986	0		×	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	У 289.421	HED No	Crest RL	Crest Langtn(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6 13.7 13.9 13.9 13.9 14.1	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 598.986 1061.17			ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	у 289.421	HED No	Crest RL	Crest Langtn(m)							
Name DetBEx	18,24 13,3 13,4 13,5 13,5 13,5 13,9 13,9 13,9 14,4 14,1 14,2	0 0.015 0.19 4.388 23.299 70.52 162.39 326.256 599.986 1061.17 1822.46			ĸ	Dia(mm)	Centre RL.	Rit Family	Pit Type	× 514.018	<u>У</u> 289.421	HED No	Crest RL	Crest Langtn(m)							
Name DetBEx	18,24 13,3 13,4 13,5 13,5 13,5 13,9 13,9 13,9 14,4 14,1 14,2	0 0.015 0.19 4.388 23.299 70.52 162.39 326.256 599.986 1061.17 1822.46			ĸ	Dia(mm)	Centre RL.	Rit Family	Pit Type	× 514.018	¥ 288.421	HED No	Crest RL	Crest Langtn(m)							
Name DetBEx	13,24 (33) (34) (35) (35) (35) (35) (35) (39) (39) (39) (44) (41) (42) (42) (42)	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 538.986 1061.17 1822.46 2998.63			K	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	¥ 289.421	HED No	Crest RL	Crest Langtn(m)							
Name DetBEx	13,24 133 134 135 136 136 136 138 139 139 149 14,1 14,2 14,2 14,2 14,4	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 538.988 1061.17 1822.48 2998.53 4603.56			K	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	¥ 288.421	HED No	Crest RL	Cred Langth(m)							
Name DetBEx	10,24 13,3 13,4 13,5 13,6 13,6 13,7 13,8 13,9 14,1 14,2 14,2 14,2 14,2 14,5	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 538.988 1061.17 1822.46 2988.63 4603.56 6635.68			ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	288.421	HED No	Crest RL	Cred Langth(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.4 13.5 13.7 13.8 13.7 13.8 13.7 13.8 13.9 14.4 14.7 14.2 14.2 14.3 14.4 14.5 14.4	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 599.986 599.986 599.986 599.986 536.246 2896.53 4603.566 8635.68 9172.45				Dis(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	<u>у</u> 289.421	HED No	Crest RL	Cred Length(m)							
Name DetBEx	10.24 13.3 13.4 13.5 13.6 13.6 13.7 13.8 13.7 13.9 14.9 14.9 14.2 14.2 14.3 14.4 14.5 14.6 14.6 14.6	0 0.015 0.19 4.388 23.299 70.52 162.39 326.236 599.996 1061.17 1822.46 2989.53 4603.56 6635.68 9172.45			×	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	y 289.421	HED No	Crest RL	Cred Length(m)							
Name DetBEx	13.24 13.3 13.4 13.5 13.6 13.7 13.6 13.7 13.8 13.9 13.9 14.4 14.1 14.2 14.4 14.5 14.4 14.5 14.8 14.7 14.8	0 0.015 0.19 4.388 23.290 70.52 162.39 326.236 539.996 1061.17 9822.48 2998.53 4603.56 8635.68 9172.45 12182.7 15734.5				Dis(mm)	Centre RL.	Pit Family	Pit Type	× 514.018	y 289.421	HED No	Crest RL	Cred Length(m)							
Name DetBEx	10.24 13.3 13.4 13.5 13.6 13.6 13.7 13.8 13.7 13.9 14.9 14.9 14.2 14.2 14.3 14.4 14.5 14.6 14.6 14.6	0 0.015 0.19 4.388 23.290 70.52 162.39 326.236 539.996 1061.17 9822.48 2998.53 4603.56 8635.68 9172.45 12182.7 15734.5			ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type	× 514,018	y 289.421	HED No	Crest RL	Cred Length(m)							
DetBEx	13.24 13.3 13.3 13.4 13.5 13.6 13.6 13.6 13.9 14.4 14.7 14.2 14.3 14.4 14.5 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	0 0.015 0.191 4.388 23.299 70.52 162.39 326.235 598.988 989.98 9106.117 1822.46 2895.53 4603.56 8635.69 9172.45 12162.7 15734.5		None	<u>x</u>	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
Name DetBEx	13.24 13.3 13.3 13.4 13.5 13.6 13.7 13.9 13.9 14.9 14.1 14.2 14.3 14.4 14.5 14.5 14.5 14.5 14.5 14.5 14.5	0 0.015 0.091 4.388 23.290 70.525 162.39 326.235 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 598.986 599.986 599.986 599.987 599.575 509.575 507.5			ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type		y 288.421	No	Crest RL	Cred Length(m)							
DetBEx:	13.24 13.3 13.4 13.5 13.4 13.5 13.8 13.7 13.8 13.7 13.8 13.7 13.8 14.9 14.2 14.2 14.2 14.2 14.8 14.8 14.8 14.8 14.8 14.8 13.1	0 0.015 0.191 23.2909 70.52 162.39 326.233 538.996 1061.17 1822.46 2998.53 4603.56 6635.69 9172.45 12182.7 15734.5 16517.9 0 0		None	K	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	13,24 13,3 13,3 13,4 13,5 13,7 13,8 13,9 14,9 14,1 14,2 14,3 14,4 14,5 14,5 14,6 14,5 14,6 14,7 14,8 14,7 14,8 14,9	0 0.015 0.09 70.525 162.32 326.236 538.986 1061.17 1822.46 298.53 4603.55 6635.68 9172.45 12162.7 15734.5 12162.7 0 0 0 0.457 7,16		None	ĸ	Dia(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	13.24 13.3 13.4 13.5 13.6 13.6 13.6 13.6 13.6 13.9 13.9 14.4 14.2 14.2 14.4 14.5 14.4 14.5 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	0 0.015 0.19 23.299 23.299 23.26 235 538 398 538 398 538 398 538 398 539 398 539 398 539 398 539 398 535 69 535 69 545 57 54,5 16577 9 0 0 0.0457 7,16 2.6464 2.6546		None	ĸ	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx:	13.24 13.3 13.4 13.5 13.6 13.6 13.6 13.6 13.6 13.9 13.9 14.4 14.2 14.2 14.4 14.5 14.4 14.5 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	0 0.015 0.09 70.525 162.32 326.236 538.986 1061.17 1822.46 298.53 4603.55 6635.68 9172.45 12162.7 15734.5 12162.7 0 0 0 0.457 7,16		None	K	Dia(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	110.24 110.24 110.25	0 0.015 0.19 70.52 70.50		None	K	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx:	13.24 13.3 13.4 13.5 13.6 13.7 13.8 13.9 13.9 13.9 14.4 14.2 14.4 14.5 14.4 14.5 14.6 14.6 14.6 14.7 14.6 14.6 14.6 13.5 13.1 13.2 13.3 13.4 13.5	0 0.015 0.19 70.52 70.52 538.986 538.986 538.986 538.986 538.986 538.986 538.986 538.986 538.986 538.986 539.44 7.16 7.16 7.16 7.16 7.1295 7.16 7.1295		None	K	Dia(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	110.24 110.24 110.25	0 0.015 0.19 4.388 23.290 70.52 162.39 326.235 538.988 938.988 938.988 938.988 9460.555 6635.68 9172.45 16517.9 0 0.4577 7.18 73.5 16517.9 0 0.4577 7.18 73.5 16517.9 0 0.4575 7.1295 153.944 252.6 4 252.6 4 252.6 4 252.6 4 252.6 4 252.6 4 252.6 4 252.6 4 252.6 4 252.6 4 252.6 252.6 252.5 253.5		None	ĸ	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx:	13.24 13.3 13.4 13.5 13.6 13.7 13.8 13.7 13.8 13.7 13.8 13.8 13.8 13.9 14.1 14.2 14.3 14.4 14.5 14.6 14.7 14.8 14.8 14.8 14.8 14.8 14.8 14.9 14.8 14.8 14.8 14.9 13.1 13.2 13.3 13.3 13.4 13.5 13.6 13.7	0 0.015 0.13 23.290 70.52 162.39 3362.235 3362.235 3362.235 3362.235 3362.235 3362.235 3362.235 3362.235 3362.245 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.2555 3362.2555 3362.2555 3362.25555 3362.255555 3362.25555555555555555555555555555555555	e e	None	K	Dia(mm)	Centre RL	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	113.24 113.23 113.4 113.5 113.6 113.6 113.6 113.6 113.6 113.6 114.7 114.2	0 0.015 0.19 70.52 70.52 509.980 326.295 509.980 900.55 603.56 603.56 603.56 603.56 603.56 603.56 7172.45 7182		None	к	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	13.24 13.3 13.4 13.5 13.6 13.7 13.8 13.7 13.8 13.7 13.8 13.8 13.8 13.9 14.1 14.2 14.3 14.4 14.5 14.6 14.7 14.8 14.8 14.8 14.8 14.8 14.8 14.9 14.8 14.8 14.8 14.9 13.1 13.2 13.3 13.3 13.4 13.5 13.6 13.7	0 0.015 0.13 23.290 70.52 162.39 3362.235 3362.235 3362.235 3362.235 3362.235 3362.235 3362.235 3362.235 3362.245 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.255 3362.2555 3362.2555 3362.2555 3362.25555 3362.255555 3362.25555555555555555555555555555555555		None	K	Dia(mm)	Centre RL	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	13.24 13.3 13.4 13.5 13.6 13.7 13.8 13.7 13.8 13.7 13.8 13.7 13.8 13.9 14.1 14.2 14.3 14.4 14.2 14.3 14.4 14.5 14.8 14.2 14.3 14.3 14.3 14.3 14.4 14.5 14.8 14.7 14.8 14.7 14.8 14.8 14.9 13.1 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 13.7 13.8 13.9 13.7	0 0.015 0.13 23.260 70.52 162.39 3362.235 2362.235 2362.235 2362.235 2382.435 2382.435 2382.435 2486.55 4603.56 6635.60 6172.45 26152.455 12182.7 15734.5 15734.5 15734.5 153.944 292.6 153.944 292.6 153.944 292.6 153.944 292.6 154.946 294.956 294.957 294.957 295.7577 295.7577 295.7577 295.7577 295.75777 295.757777 295.757777777777777777777777777777777777		None	к 	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						
DetBEx	113.24 113.23 113.4 113.5 113.6 113.6 113.6 113.6 113.6 113.6 114.7 114.2	0 0.015 0.19 70.52 70.52 538.986 538.986 538.986 538.986 538.986 538.986 549.55 549.55 549.55 7.16 549.55 549.55 549.55 7.16 7.16 7.16 7.16 7.16 7.16 7.16 7.16		None	K	Dis(mm)	Centre RL.	Pit Family	Pit Type		289.421	No	Crest RL	Cred Length(m)	-48						

DRAINS Input Data

as the Diracian provident and the

JRANE-Madai Clamé and Pile Path: JRÁNE Veralon: dodlářst Taxee Ješerjálian:	(*************************************	I LI South I	configuration and the second	10	
DRAIKS Version: Nodeller's Name	20103.05-5	Junnard 2010			
Módeller's Nares Description:	CITE MECH	fluct			
Description:		Monecara	050		
PIT / NODE DETAILS	1		Version 9	-1	Τ
Name	Type	Family	Size	Panding	T

DATA

2.5.1	14.2	4761.	79			- N -							1.		-				-			
DetB_Prop	14		0	0 None					10.000		609.055	-288.731	No			13086138		-	1		-	
	16	178-	49		- 1		1		F	1	1				II II	1	1.1.	1	1	11 1 1		
DetA_Prop	14		0	0 None	1.0	· · · · · · · · · · · · · · · · · · ·			1	(i 1	-130.806	-249.09	No.	· · · · · · · · ·	1	14111587	1.00	-	1		-	
	14.1	1109,0	05													1	1			1		_
	14.2	2410	.a		-			1.1	1		h				-		1000	-	-			
	14.3	3737.	64		-					())	-		- 5 t			-	-	12 ·····		
	14.4					_			1		A		i	_	15	· · · · · · · · · · · · · · · · · · ·	1			· · · · · ·	_	
	14.5										2				11	11	1.1.1	-				_
	14.6				-						1		-					-	_	1.1.1.1	_	
	14.7			0		1				0	1.	1					0.00	1	1	10.000	-	
	14.8	10730	.2	1 - Q	100			H. Contraction of the second sec	1.		1.1	1 1	1				<u> </u>	1.0	1.00	14	1.00	-
	14.9	12200	.6	- Di -							1				1		1.11	-				
	15	13695	i.1.		-						1			_		-	-	-			_	
	15.1	15213 16756	.7														-	-				
	15.2	16756	4		_												-	-			-	
	15.3				1										-	1 C	-	-	-	15 mar 1		
1	15.4	20270	2															-	-	-	-	
	15.5	22063		_	-					-		-	1	-	-			-	-		-	_
	15.6		2					1				· · · · ·	-				-	-	-	-	-	
	15.7			_	-					-				-			1	-			-	
	15.8		1.9	-	-					-				-				+	-		-	
	15.9		.9	-	_	-				-	-		-	-	-	-		-	-	-		
	16.1	313	8/	-	-					-				-		-	+	+	-		-+	
				-	-	-			-					-	-	-	+	+	-	-		
Dated	16.2			0000	-			1		-	1120 400	100 770	Nie	-	-	15137024	1-	+	1	-	-	
DetC1	15.5	-	00	0 Culvert	-	0.5				-	1129.195	-188,779	NO	-		1513/024	-	+	-		-	
	15.5	6	00		-	-				-	-			-			-	+			-	
OutO Bran			0	OMmer	-	-				÷	149- 220	501050	Ma	-	-	12102020	+	+	-		-+	-
DetD_Prop	16	107	07	0 None	-	-					1431.552	-382.039	140	-		15137030	-	+	-		-+	
Datic 2	15		0	O Cubiant	-	AE					1145 200	-257 623	No	-	1	15137025	+	+	-	-	-	
DetC2	15.5		00	9 Culvert		0.5			-	-	1141 282	-257.627	NU		-	1213/025	+	+	-		-+-	
	15.5		00		-						-		-	-		-		+-	-	-	-+	
DelC3	16		0	0 Culvert	-	0.5			+	1	1136.098	544 002	Ma	-	-	15137026	t-	+	-	-		
Detra	10	20	0	Diculven	-	Val			1	-	11.30.038	-344,027	140	-	-	1513/020	<u>f – </u>	+	+			
	15.5	2	00		-									-				+	-	-	-	
Durine .	15		0	0 Culvert	-	0.6					1402 200	132.455	bla.			1510 7007	<u></u>	+		++	-+	
DetC4	15.5	-	00	UCuiven	-	0.51				-	1130.098	-432.155	NO	-		15137027	+	+	-		-	
-	15.5		00	-						÷	-			-		-	<u>+</u>	+-	-		-	_
D-vet	15	0	00	OC.t.mt	-	0.5					1484 200	-496.091	Nie			45422000	-	+	-		-	
DetC5	15.5	2	0	0 Culvert	-	0.5			-	-	1141.282	-496.091	NO	-	-	15137028	-	+	-	-	-	
	15.5		00		-							-		_			-	+	-		-+	_
0-102	15			O Cuturet	-	0.0					1497.070	200.510	61-	-	-	42497000	-	+	-	-	-	_
DetCo			0	OCulvert	-	0.5					11.57.828	-596,315	NO	-	-	15137029	-	+	-	-	-	_
	15.5		00	_	-							-		-	-		-	-	-	-	-+	
	10		00						-	+				-			-	+	-		-+	
SUB-CATCHMENT DETAILS		-														-	-					
		1	1		-						-			_	P	14 m	1	+			-	_
	Pàrez	1	Provid	Contra			award	Creat .	Silon	Paued	Crater	Sum	Descend	Grave	Suga	Paured	Contra	Supo	I an Time	Cottor	Culling 6	Suttor
	Pit or	Total	Paved	Grass		Supp Pi	aved	Grass	Supp	Paved		Supp	Paved	Grass	Supp	Paved		Supp	Lag Time	Gutter	Gutter C	Sutter
		Total Area	Area	Area		Supp Pi Area Tr	ime	Time	Time	Length	Length	Length	Paved Slope(%)	Grass Slope	Supp Slope	Paved Rough		Supp Rough	Lag Time or Factor	Length	Slope F	Sutter Tow Factor
Name	Node	Total Area (ha)	Area %		2	6 (n	aved ime nin)	Time (min)	Time (min)	Length		Supp Length (m)	Paved Slope(%) %	Grass Slope %	Supp Slope			s Supp h Rough	Lag Time or Factor	Length	Gutter G Slope F %	Sutter Now Factor
Name CatchB1Ex	Node N5	Total Area (ha) 1.07	Area %	Area %	100	% (n 0	aved ime nin) 3	Time (min)	Time	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Slope %			s Supp h Rough	Lag Time or Factor	Length	Slope F	Sutter Tow Facto
Name CatchB1Ex CatchC1Ex	Node N5 N8	Total Area (ha) 1.0 2.4	Area % 73 31 8	Area % 0 31.8	100 18.2	% (n 0	nin) 3 7	Time (min)	Time (min) 3	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Stope %			s Supp h Rough	or Factor	Length ((m)	Slope F	Sutter Tow Facto
Name CatchB1Es CatchC1Er CatchC1Er	Node N5 N8 DetBEx	Total Area (ha) 1.0 2.4 26.0	Area % 73 31 8 52 3	Area % 0 31.8 33.4	100 18.2 66.6	X6 (11 0 0	nin) 3 7 14,5	Time (min)	Time (min) 3	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Slope %			s Supp h Rough	Lag Time or Factor 0 0	Length ((m)	Slope F	Sutter Now Factor
Name CatchB1E4 CatchC1E4 CatchC5E4 CatchDE4 CatchAE4	Node N5 NB DetBEx DetAEx	Total Area (ha) 1.0 2.4 26.0 27.4	Area 1% 75 31 8 52 3 53	Area % 0 31.8 33.4 50	100 18.2	6 (n 0 0 0	nin) 3 7	Tirné (min). 2 1	Time (min) 3 1	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Slope %			s Supp h Rough	or Factor	Length (m)	Slope F	Sutter low Facto
Name CatchB1E CatchB1E CatchB1E CatchBE CatchB	Node N5 N8 DetBEx DetAEx N62	Total Area (ha) 1.0 2.4 26.0 27.4 6.4	Area % 73 31 8 52 3 53 72	Area % 0 31.8 33.4 50 100	100 18.2 66.6	% (n 0 0 0	nin) 3 14.5 13.75 6	Tine (min)	Time (min) 3 4 5	Length	Length	Length	Paved Slope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	or Factor	Length (m)	Slope F	Sutter Tow Facto
Name CatchB1Es CatchC1Es CatchC2Es CatchAEs CatC	Node N5 NB DetBEx DetAEx	Total Area (ha) 1.0 2.4 26.0 27.4 6.4	Area % 73 31 8 52 3 53 72	Area % 0 81.8 83.4 50 100	100 18.2 66.6	6 (n 0 0 0	nin) 3 7 14,5	Tirné (min). 2 1	Time (mn) 3 1 1 2 3	Length	Length	Length	Paved Slope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	or Factor	Length ((m)	Slope F	Sutter Now Facto
Name CatchB1Es CatchC1Es CatchDEs CatCh	Node N5 N8 DetBEs DetAEs N62 N63 N64	Total Area (ha) 1.0 2.4 26.0 27.4 6.4 3.0 1.0	Area % 73 31 8 52 3 53 53 72 59 73	Area % 0 81.8 33.4 50 100 100	100 18.2 66.6 50 0 100	× (n 0 0 0 0 0	nih) 7, 14,5 13,75 6 9,5 5	Time (min). 2 1 1 1 8.1	Time (mn) 3 5 5 5 3	Length	Length	Length	Paved Slope(%) %	Grass Slope %,	Supp Slope %			s Supp h Rough	or Factor	Length ((m)	Slope F	Sutter Now Facto
Name CatchB1E# CatchC1E# CatchC1E# CatchC2# CatchC2# CatchC4# CatchAE# CatchAE# CatB2(Swale) Prop CatB2(Swale) Prop CatB2(Swale) Prop CatB2(Srade) Prop CatB	Node N5 NB DetBEx DetAEx N62 N63 N63 N64 N65	Total Area (ha) 1.0 2.4 26.0 27.4 6.4 3.0 1.0	Area % 73 31 8 52 3 53 53 72 59 73	Area % 0 81.8 33.4 50 100 100	100 18.2 66.6 50 0	X. (n 0 0 0 0 0 0	nin) 3 14.5 13.75 6	Time (min) 33 18 18 19 19 19 19 19 19 19 19	Time (mn) 3 5 5 5 5	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Stope %			s Supp h Rough	or Factor	Length ((m)	Slope F	Sutter Now Factor
Name CatchB1E CatchB1E CatchB1E CatchB2 CatchB2 CatchB2 CatchB2 CatcB2 C	Node N5 N8 DetBEx DetAEx N62 N63 N64 N65 N75	Total Area (ha) 2.44 26.0 27.45 0.4 0.4 3.0 1.0 0.3 7.8 3.5	Area % 73 53 52 53 55 55 55 55 55 55 55 55 55	Area % 0 81.8 33.4 100 100 0 100	100 18.2 66.6 50 0 100		nih) 7, 14,5 13,75 6 9,5 5	Time (min) 3 11 11 12 13 14 15	Time (min) 3 5 5 5 6 8	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Slope %			Supp h Rough	or Factor	Length i (m)	Slope F	Sutter
Name CatchB1E CatchB1E CatchB1E CatchB2 CatchB2 CatchB2 CatchB2 CatcB2 C	Node N5 N8 Det8Ex DetAEx N62 N63 N64 N65 N75 N76	Total Area (ha) 2.44 26.0 27.45 0.4 0.4 3.0 1.0 0.3 7.8 3.5	Area % 73 53 52 53 55 55 55 55 55 55 55 55 55	Area %6 0 81.8 50 100 100 0 100 100 100	100 18.2 66.6 50 0 100	% (n 0 0 0 0 0 0 0 0 0 0 0	nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 33 18 93 19 19 19 11 11 11 11	Time (mn) 3 5 5 5 5 5 5 5 5 5 5 5	Length	Length	Length	Paved Slope(%) %	Grass Slope %	Supp Slope %			5 Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length i	Slope F	Sutter Now Factor
Name CatchB1Es CatchC1Es CatchC1Es CatchC2s CatC	Node N5 N8 Det8E* DetAEx N62 N63 N64 N65 N76 N76 N76 N77	Total Area (ha) 1.0 2.4 26.0 27.4 6.4 3.0 1.0 0,1 7.8 3.5 5 6.6	Area % 75 31 852 33 53 72 59 73 55 55 71 05 11	Area % 0 81.8 50 100 100 0 100 100 46	A 100 18.2 66.6 50 0 100 100 100 0 54		nih) 7, 14,5 13,75 6 9,5 5	Time (min) 2 3 4 4 4 1 5 1 5 1 5 1 5 1 5 8 8	Time (min) 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Length	Length	Length	Paved Slope(%) %	Grass Stope %	Supp Slope %			5 Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length i	Slope F	Setter Now Factor
Name CatchB1E CatchC1E CatchC1E CatchC1E CatchC2E CatchC2	Node N5 N8 Det8Ex DetAEx N62 N63 N64 N65 N75 N76 N77 N77 N78	Total Area (ha) 2.4: 26,0: 27,4: 9.4: 1.0: 0.3: 1.0: 0.3: 7.8: 5.5: 6.6: 0.77	Area %4 55 57 57 57 57 57 55 55 55 55	Area % 0 31.8 33.4 100 100 0 100 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 0 0 0		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Tine (min) 2 3 4 4 3 3 4 1 5 5 7 1 5 7 1 9 1 1 1 1 1 1 1 1 1	Time (min) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Length	Length	Length	Paved Stope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m) '	Slope F	Sutter Now Factor
Name CatchB1E4 CatchD1E4 C	Node N5 N8 Det8E* DetAEx N62 N63 N64 N65 N76 N76 N76 N77	Total Area (ha) 26.0 27.4 8.4 3.0 1.0 0. 0.4 7.8 5.5 6.6 6.6 0.7 7 3.5 5.5 5.5 5.3	Area %4 55 57 57 57 57 57 55 55 55 55	Area % 0 31.8 33.4 100 100 0 100 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 100 0 54		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mm) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Length	Length	Length	Paved Slope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m) '	Slope F	Sutter Iow Factor
Name CatchB1Ex CatchC1Ex CatchC2x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatChC4x CatB1E1x CatB1E1x CatB1E1x CatA1x CatA1x CatA1x CatA1x CatA2(Swale)x	Node N5 N8 Det8E* Det4E* N62 N63 N64 N65 N75 N75 N76 N77 N78 DetC1 DetC2 DetC2 DetC2 DetC3	Total Area (ha) 1.0; 2.4: 26.0; 27.4: 0.4: 3.0; 1.0; 0.0; 7.8; 5.5; 6.6; 0.7; 7; 3.5; 5.5; 5.5; 5.5; 3.3; 3.3; 3.3;	Area % % 73 31 85 52 53 53 55 55 55 55 55 55 55 55	Area % 0 31.8 50 100 100 0 100 46 0 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 100 0 54		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mm) 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Length	Length	Length	Paved Stope(%) %	Grass Stope %	Supp Slope **			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m) '	Slope F	Sutter Iow Factor
Name CatchB1Ex CatchC1Ex CatchC2x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatchC4x CatChC4x CatB1E1x CatB1E1x CatB1E1x CatA1x CatA1x CatA1x CatA1x CatA2(Swale)x	Node N5 N8 Det8E* Det4E* N62 N63 N64 N65 N75 N75 N76 N77 N78 DetC1 DetC2 DetC2 DetC2 DetC3	Total Area (ha) 26.0 27.4 8.4 3.0 1.0 0. 0.4 7.8 5.5 6.6 6.6 0.7 7 3.5 5.5 5.5 5.3	Area % % 73 31 85 52 53 53 55 55 55 55 55 55 55 55	Area % 0 31.8 33.4 100 100 0 100 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 100 0 54		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mm) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Length	Length	Length	Paved Stope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length 1 (m) '	Slope F	Sulter IowFactor
Name CatchB1Es CatchD1Es CatchD1Es CatchD1Es CatchD2s Cat	Node N5 N8 DetAEx DetAEx N62 N63 N64 N65 N76 N76 N76 N77 N77 DetC1 DetC2 DetC2 DetC3 DetC4	Total Area (ha) 240 26.0 27.44 0.4 0.4 0.2 7.4 0.4 0.0 0.0 7.8 0.0 7.0 7.0 7.0 7.8 0.0 7.8 0.0 7.0 7.0 7.0 7.8 0.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Area 75 75 75 75 75 75 75 75 75 75	Area %6 0 31.8 33.4 50 100 100 100 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 100 0 54		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 33 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mn) 3 4 5 6 8 9 8 9 </td <td>Length</td> <td>Length</td> <td>Length</td> <td>Paved Stope(%) %</td> <td>Grass Stope %</td> <td>Supp Slope %</td> <td></td> <td></td> <td>5 Supp h Rough</td> <td>1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Length (m)</td> <td>Slope F</td> <td>Sutter Iow Facto</td>	Length	Length	Length	Paved Stope(%) %	Grass Stope %	Supp Slope %			5 Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m)	Slope F	Sutter Iow Facto
Name CatchB1Ea CatchD1Ea C	Node N5 N8 Det8E* Det4E* N62 N63 N64 N65 N75 N75 N76 N77 N78 DetC1 DetC2 DetC2 DetC2 DetC3	Total Area (ha) 26.0 27.4 26.0 27.4 3.0 1.0 0,0 7.8 3.5 6.6 6.6 0.7 7 1 3.5 5 3.3 3.3 3.3	Area 73 73 73 73 73 73 73 75 75 75 75 75 75 75 75 75 75	Area % 0 31.8 50 100 100 0 100 46 0 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 100 0 54		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 33 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mm)	Length	Length	Length	Paved Stope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m)	Slope F	Sutter Iow Factor
Name CatchB1Ed CatchD1E CatchD2E CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatB1Es1_Prop CatA1_Prop CatA2_Sownie)_Prop CatA2_Sownie)_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA_R_Prop CatA_R_Prop <td>Node N5 N5 DetBE= DetAEx N62 N65 N65 N75 N76 N77 N77 N77 DetC1 DetC2 DetC3 DetC4 DetC5</td> <td>Tchai Area (ha) 1.0° 2.4' 2.7.4% 9.4' 9.4' 9.4' 9.4' 9.4' 9.4' 9.4' 9.4'</td> <td>Area % 73 75 75 75 75 75 75 75 75 75 75 75 75 75</td> <td>Area % 0 31.8 50 50 100 100 100 100 100 100</td> <td>A 100 18.2 50 0 100 100 100 0 100 0 54 100 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>nin) 3 14,5 13,75 6 9,5 5 8,6 6 12</td> <td>Tine (min)</td> <td>Time (mm) (1 </td> <td>Length</td> <td>Length</td> <td>Length</td> <td>Paved Slope(%) %</td> <td>Grass Stope %</td> <td>Supp Slope %</td> <td></td> <td></td> <td>s Supp h Rough</td> <td>1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Length (m)</td> <td>Slope F</td> <td>Sutter Now Factor</td>	Node N5 N5 DetBE= DetAEx N62 N65 N65 N75 N76 N77 N77 N77 DetC1 DetC2 DetC3 DetC4 DetC5	Tchai Area (ha) 1.0° 2.4' 2.7.4% 9.4' 9.4' 9.4' 9.4' 9.4' 9.4' 9.4' 9.4'	Area % 73 75 75 75 75 75 75 75 75 75 75 75 75 75	Area % 0 31.8 50 50 100 100 100 100 100 100	A 100 18.2 50 0 100 100 100 0 100 0 54 100 0 0 0 0 0 0 0 0 0 0 0 0		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Tine (min)	Time (mm) (1	Length	Length	Length	Paved Slope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m)	Slope F	Sutter Now Factor
Name CatchB1Ed CatchD1E CatchD2E CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatchD4Es CatB1Es1_Prop CatA1_Prop CatA2_Sownie)_Prop CatA2_Sownie)_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA2_R_Prop CatA_R_Prop CatA_R_Prop <td>Node N5 N8 Det8Ex Det4Ex N62 N63 N64 N65 N75 N75 N77 N77 DetC1 DetC1 DetC2 DetC4 DetC4 DetC4 DetC6</td> <td>Total Area (ha) 1.0 2.4 26,0 27,4 8,0 1.0 0,1 7,8 3.5 6,6 6,6 0,77 3.5 5,5 3.5 5,3 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.</td> <td>Area 7% 7% 73 31 E 52 3 53 55 55 55 55 55 55 55 55 5</td> <td>Area % 0 31.8 50 50 100 100 100 100 100 100</td> <td>A 100 18.2 66.6 50 0 100 100 100 0 54</td> <td></td> <td>nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.</td> <td>Time (min) 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35</td> <td>Time (mm) 1 1 2 3<!--</td--><td>Length</td><td>Length</td><td>Length</td><td>Paved Siope(%) %</td><td>Grass Stope %</td><td>Supp Slope %</td><td></td><td></td><td>s Supp h Rough</td><td>1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Length (m)</td><td>Slope F</td><td>Sutter</td></td>	Node N5 N8 Det8Ex Det4Ex N62 N63 N64 N65 N75 N75 N77 N77 DetC1 DetC1 DetC2 DetC4 DetC4 DetC4 DetC6	Total Area (ha) 1.0 2.4 26,0 27,4 8,0 1.0 0,1 7,8 3.5 6,6 6,6 0,77 3.5 5,5 3.5 5,3 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.	Area 7% 7% 73 31 E 52 3 53 55 55 55 55 55 55 55 55 5	Area % 0 31.8 50 50 100 100 100 100 100 100	A 100 18.2 66.6 50 0 100 100 100 0 54		nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.	Time (min) 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mm) 1 1 2 3 </td <td>Length</td> <td>Length</td> <td>Length</td> <td>Paved Siope(%) %</td> <td>Grass Stope %</td> <td>Supp Slope %</td> <td></td> <td></td> <td>s Supp h Rough</td> <td>1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Length (m)</td> <td>Slope F</td> <td>Sutter</td>	Length	Length	Length	Paved Siope(%) %	Grass Stope %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m)	Slope F	Sutter
Name CatchB1Ex CatchD1Ex CatchD2x	Node N5 N8 DetBEx DetAEx N62 N63 N65 N75 N76 N77 DetC2 DetC3 DetC4 N65 N76 N77 N78 N85 N85 N85 N85 N85 N85 N85 N85 N86	Total Area (ha) 1.0; 2.4; 2.6; 0; 1.0; 2.7,4; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0	Area 7% 7% 73 73 73 73 75 75 75 77 75 75 75 75 75 75	Area %6 0 11.8 50 50 100 100 100 100 48 0 100 100 48 100 100 100 100 100 100 100 100 100 10	A 100 18.2 50 0 100 100 100 0 100 0 54 100 0 0 0 0 0 0 0 0 0 0 0 0		nin) 3 14,5 13,75 6 9,5 5 8,6 6 12	Time (min) 32 34 34 34 35 35 34 34 35 35 34 34 34 34 34 34 34 34 34 34 34 34 34	Time (mn) 3 4 5 6 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15	Length	Length	Length	Paved Sigpe(%) %	Grass Stopa %	Supp Slope %			s Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m)	Slope F	Sutter
Name CatchB1Ex CatchD1Ex CatchD2x	Node N5 N8 DetAEs DetAEs DetAEs N62 N65 N65 N75 N75 N75 N75 N77 N77 DetC1 DetC2 DetC3 DetC4 DetC6 N65 N65 N66 N75 N75 N77 N78 DetC1 DetC3 DetC6 N65 N65 N65 N75 N75 N75 N75 N75 N75 N75 N75 N75 N7	Total Area (ha) 1.0 2.4 26,0 27,4 8,0 1.0 0,1 7,8 3.5 6,6 6,6 0,77 3.5 5,5 3.5 5,3 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.	Area 7% 7% 73 73 73 73 75 75 75 77 75 75 75 75 75 75	Area % % 0 11.8 50 50 100 100 0 0 0 0 100 100 100 100 1	A 100 18.2 50 0 100 100 0 100 0 54 100 0 0 54 100 0 0 0 100 0 100 100 100 0 100 100		nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.	Time (min) 32 34 34 34 35 35 34 34 35 35 34 34 34 34 34 34 34 34 34 34 34 34 34	Time (mm) 1 1 2 3 </td <td>Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Length</td> <td>Length</td> <td>Paved Siope(%) %</td> <td>Grass Sippa %</td> <td>Supp Slope %</td> <td></td> <td></td> <td>Supp h Rough</td> <td>1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Length (m) -</td> <td>Slope F</td> <td>Sutter</td>	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Siope(%) %	Grass Sippa %	Supp Slope %			Supp h Rough	1 or Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Length (m) -	Slope F	Sutter
Name CatchB1Ed CatchC1Es CatchC1Es CatchC1Es CatchC2e CatchA2e CatchA2e CatB2(Swale) Prop CatB22(Swale) Prop CatB22Est, Prop CatA2Es, Prop CatA2Es, Prop CatA2Es, Prop CatA2Es, Prop CatC2 Prop CatC2 Prop CatC2 Prop CatC2 Prop CatC2 Prop CatC3 Prop CatC3 Prop CatC3 Prop CatC3 Prop CatC3 Prop CatC4 Prop CatC4 Prop CatC3 CatC4 Prop CatC3 Prop CatC3 CatC4 Prop CatC3 Prop CatC3 Prop CatC3 Prop CatC3 Prop CatC3 Prop CatC4 Prop CatC4 Prop CatC4 Prop CatC4 CatC4 Prop CatC4 CatC4 Prop CatC4 CatC4 Prop CatC4 Prop CatC4 Prop CatC4 Prop CatC4 Prop CatC4 Prop CatC4 CatC4 Prop	Node N5 DetBEs DetBEs DetAEx N62 N63 N63 N75 N76 N76 N77 DetC3 DetC4 DetC5 DetC4 DetC5 DetC4 N96 N97 N97 N97 N97 N97 N97 N97 N97 N97	Total Area (ha) 1.0 2.4 2.6.0 2.7.4 0.4 0.4 0.7 3.0 1.0 0.1 7.8 3.5 5.5 3.3 3.5 3.5 3.5 3.5 3.5	Area % 73 % 73 31 8 52 23 35 35 35 35 35 35 35 35 35 35 35 35 35	Area % 0 11.8 50 50 100 100 100 100 100 100 100 100 1	A 100 18.2 50 0 100 100 0 100 0 54 100 0 0 54 100 0 0 0 100 0 100 100 100 0 100 100		nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.	Time (min)	Time (mm) 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Sigper%) %	Grass Stope %	Supp Slope %			Supp h Rough	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) -	Slope F	Suttar
Name CatchB1E4 CatchD1E4 C	Node N5 N8 DetAEs DetAEs N62 N65 N65 N75 N77 N77 N77 DetC1 DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N85 N86 N86 N86 N86 N86 N86 N86 N86 N86 N86	Total Arga (ha) (ha) 26.0: 27.4: 3.0: 1.0: 0.0: 7.8: 3.5: 3.5: 3.5: 3.5: 3.5: 3.5: 3.5: 3.5	Area % 73 % 73 31 8 52 23 35 35 35 35 35 35 35 35 35 35 35 35 35	Area % % 0 11.8 50 100 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A 100 18.2 50 0 100 100 0 100 0 54 100 0 0 54 100 0 0 0 100 0 100 100 100 0 100 100		nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.	Time (min) 32 34 34 34 35 35 34 34 35 35 34 34 34 34 34 34 34 34 34 34 34 34 34	Time (mm) 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Slope(%) %	Grass Sopa %	Supp Slope %			Supp h Rough	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) -	Slope F	Sutter
Name Catch/D1Ex Catch/D1Ex Catch/D1Ex Catch/D1Ex Catch/D1Ex Catch/D2x Catch/D2x Catch/D2x Catch/D2x Catch/D2x Catch/D2x Catb/D2x CatAl Prop CatCa Prop CatCata Prop CatCata Prop Cat Catark Ex Cat Catark Ex Cat Catark Prop Cat Catark Prop Cataf Catark Ex CatAl Prop	Node N5 N8 DetBEs DetBEs N62 N63 N63 N65 N75 N76 N77 N78 N77 DetC1 DetC2 DetC3 DetC4 DetC5 DetC4 N95 N97 N97 N97 N97 N97 N97	Total Area (ha) 26,00 27,44 3,00 1,00 0,0,1 7,8 3,55 6,6 0,77 3,55 6,6 0,77 3,55 6,6 0,77 3,55 3,33 3,33 3,55 3,22 3,66 12,94 2,44 2,45 2,55 2,55 2,55 2,55 2,55 2,5	Area % 73 % 73 31 8 52 3 3 5 5 9 7 7 5 5 9 7 7 5 5 5 5 7 7 1 5 5 5 5 7 7 1 5 5 5 7 7 1 5 5 5 7 7 1 5 5 5 7 7 1 5 5 5 7 7 1 5 5 5 7 7 1 5 5 5 5	Area % 0 31.8 50 100 100 100 100 100 100 100 100 100	4 0 100 18.2 86.6 50 0 100 0 100 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.	Time (min)	Time (mm) 1 1 1 2 3	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Sigper(%) %	Grass Stope %	Supp Slope %			5 Supp h Rouge	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0		Slope F	Suttar
Name Catch/D1Ex Catch/D1Ex Catch/D1Ex Catch/D1Ex Catch/D1Ex Catch/D2x Catch/D2x Catch/D2x Catch/D2x Catch/D2x Catch/D2x Catb/D2x CatAl Prop CatCa Prop CatCata Prop CatCata Prop Cat Catark Ex Cat Catark Ex Cat Catark Prop Cat Catark Prop Cataf Catark Ex CatAl Prop	Node NIS N8 DetAEs DetAEs N62 N63 N64 N65 N76 N77 N77 DetC1 DetC2 DetC3 DetC4 N96 N97 N167 N469 N178 DetC4 DetC4 N97 N169 N177 N178 N469 N4224 N222 HW2	Total Arga (ha) (ha) 24/4 26.00 27.41 6.4 3.00 1.00 7.98 3.54 6.6 0.77 3.55 3.51 3.53 3.53 3.53 3.53 3.53 3.53	Area % % 75 % 75 % 75 % 75 % 75 % 75 % 75 %	Area % 0 11.8 50 100 0 0 0 0 0 0 0 0 0 0 0 0	4 3 100 18.2 86.6 50 0 100 0 100 0 54 100 0 54 100 0 54 100 0 0 18.2 50 0 0 18.2 50 0 0 0 0 18.2 50 0 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 9.5 9.5 9.5 12 13.	Time (min)	Time (mm) 1 1 1 2 3	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Sigpe(%) %	Grass Stopa %	Supp Slope %			Supp h Rough	1 or Factor	Length (m) *	Slope F	Sutter
Name CatchB1E CatchD1E CatchDE	Node N5 N8 DetAEs DetAEs N62 N65 N66 N75 N75 N75 N77 N77 DetC1 DetC2 DetC3 DetC4 DetC5 N455 N466 N478 DetC1 DetC3 DetC4 DetC5 N455 N456 N457 DetC4 DetC5 DetC6 N459 N4169 N177 N224 HV22 HV24	Total Arga (ha) 26.0 27.4 26.0 27.4 3.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0	Area 7% 7% 73 73 73 73 73 59 59 59 59 55 55 77 75 55 55 55 55 55 55	Area Area % 0 11.8 50 100 100 100 100 100 100 100	A 100 18.2 86.6 50 0 0 100 0 100 0 0 100 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 8.6 6 12 13.2	Time (min) 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	Time (mm) 1 2 3 4 5 5 6 7 8 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 6 7 6 7 6 7 6 7 6 </td <td>Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Length</td> <td>Length</td> <td>Paved Sigpe(%) %</td> <td>Grass Stope %</td> <td>Supp Slope %</td> <td></td> <td></td> <td>F Supp F Supp A Aougt A Aougt A Aougt A Aougt A Aougt B Aougt B</td> <td>1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0</td> <td>Length (m) *</td> <td>Slope F</td> <td>Sutter Now Factor</td>	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Sigpe(%) %	Grass Stope %	Supp Slope %			F Supp F Supp A Aougt A Aougt A Aougt A Aougt A Aougt B	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) *	Slope F	Sutter Now Factor
Name CatchB1Es CatchD1Es CatchD2Es C	Node NIS N8 DetAEs DetAEs N62 N63 N64 N65 N76 N77 N77 DetC1 DetC2 DetC3 DetC4 N96 N97 N167 N469 N178 DetC4 DetC4 N97 N169 N177 N178 N469 N4224 N222 HW2	Total Arga (ha) 26.0 27.4 26.0 27.4 3.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0	Area 7% 7% 73 73 73 73 73 59 59 59 59 55 55 77 75 55 55 55 55 55 55	Area % 0 0 11.8 50 50 100 100 0 100 100 0 0 100 100 100	4 0 100 18.2 86.6 50 0 100 0 100 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 8.6 6 12 13.2	Time (min)	Time (mm) 1 2 3 4 5 5 6 7 8 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 6 7 6 7 6 7 6 7 6 </td <td>Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Length</td> <td>Length</td> <td>Paved Sigper%) %</td> <td>Grass Stopa %</td> <td>Supp Slope %</td> <td></td> <td></td> <td>5 Supp 6 Supp </td> <td>1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0</td> <td>Length (m) *</td> <td>Slope F</td> <td>Suffer Factor</td>	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Sigper%) %	Grass Stopa %	Supp Slope %			5 Supp 6 Supp 	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) *	Slope F	Suffer Factor
Name CatchB1E.a CatchD1E.a CatchD1E.a CatchD2E.a CatChD2E	Node N5 N8 DetAEs DetAEs N62 N65 N66 N75 N75 N75 N77 N77 DetC1 DetC2 DetC3 DetC4 DetC5 N455 N466 N478 DetC1 DetC3 DetC4 DetC5 N455 N456 N457 DetC4 DetC5 DetC6 N459 N4169 N177 N224 HV22 HV24	Total Arga (ha) 26.00 27.44 8.44 8.00 7.80 7.80 7.80 7.80 7.80 7.80 7.80	Area Area 75 75 75 75 75 75 75 75 75 75	Area % 0 0 11.8 50 50 100 100 0 100 100 0 0 100 100 100	A 100 18.2 86.6 50 0 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 8.6 6 12 13.2	Time (min)	Time (mm) 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 15 16 17 18 19 10 10 11 12 13 14 15 1	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Slope(%) %	Grass Stopa %	Supp Slope %			5 Supp h Rough 	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) *	Slope F	Gutter
Name CatchB1Ea CatchD1Ea CatchD1Ea CatchDEa CatchDEa CatchAEa CatchDEa CatchAEa CatChAE CAT	Node N5 N8 DetBEs DetAEx N63 N65 N75 N76 N77 N77 N77 DetC1 DetC2 DetC4 DetC5 DetC4 DetC5 DetC4 N95 N97 N85 N97 N169 N97 N169 N97 N177 N224 N967 N177 N177 N177 DetC4 DetC4 DetC4 DetC5 DetC4 N965 N97 N167 N97 N167 N177 N177 N177 N177 N177 N177 N17	Total Arga (ha) 27.44 26.00 27.44 27.44 27.44 27.44 27.44 27.45 27	Area % % % 73 73 73 73 73 73 73 75 59 77 75 59 55 55 77 77 75 55 55 77 73 55 55 55 73 55 55 73 55 55 55 55 55 55 55 55 55 5	Area Area % 0 11.8 50 100 100 100 100 100 100 100	A 100 18.2 86.6 50 0 100 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 8.6 6 12 13.2	Time (min)	Time (mm) 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 15 16 17 18 19 10 10 11 12 13 14 15 1	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Sigper%) %	Grass Stope %	Supp Slope %			5 Supp 6 Supp 6 Supp 7 Supp	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) *	Slope F	Sutter Investigation
SUB-LATCHMENT DETAILS Name OstehBTE4 CatchCrE# CatCh Prop	Node N5 N8 DetAEs DetAEs N62 N63 N65 N75 N77 N77 N77 DetC1 DetC3 DetC3 DetC3 DetC3 DetC4 DetC5 N95 N97 N169 N169 N177 N177 N177 N177 N177 N177 N177 N17	Total Arga (ha) 26.00 27.44 8.44 8.00 7.80 7.80 7.80 7.80 7.80 7.80 7.80	Area % % % 73 73 73 73 73 73 73 75 59 77 75 59 55 55 77 77 75 55 55 77 73 55 55 55 73 55 55 73 55 55 55 55 55 55 55 55 55 5	Area % 0 0 11.8 50 50 100 100 0 100 100 0 0 100 100 100	A 100 18.2 86.6 50 0 0 0 0 0 0 0 0 0 0 0 0 0		nm) 3 7 14.5 13.75 6 9.5 8.6 6 12 13.2	Time (min)	Time (mm) (mm) 1	Length (m) (m) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length	Length	Paved Slope(%) %	Grass Stopa Wi	Supp Slope %			F Supp F Supp Image: Supp Image: Supp	1 or Factor 0 00 0 000 0 00 0 000 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	Length (m) *	Slope F	Set of the

DRAINS Input Data

Cat6	N325	0.204	. 50	50		6	1	1	1	T	1	-	1		1	1	1	1	of T	-
CatA4_Prop	N326	5.43				6		1		-	-		1		-	-		1	ól I	
CatA5_Prop	N327	6.134				6		-			+				-		-			_
atA6 Prop	N328	5.908	100			8	3				-						-	1 1	n t	_
CatB3 Prop	N329	4.457	-100			6		1			-					-		1		-
		10.001	110							1	-		1		-	-		-		_
PIPE DETAILS	1	1	1				1			1		1					1		1	
Name	From	To	Length	U/SIL	D/S IL	Stope	Type	Dis	10.	Rough	Pipe is	No. Pipes	Chg From	At Chg	Chg	RI	Ghg	RL	etc	
	1 1 1		(01)	(m)	(m)	(%)		(mmi)	(mm)		1				(ms)	(m)		(m).	(m)	
Pipe 13	DetC1	DetD Prop	160	11	14	0.63	Box Culverts	1.2W × 0.45H		0.3	Existing		DetC1	0			÷	J		1.1
P18	DetC2	DetD Prop	160		14		Box Culverts	1.2W x 0.45H		0.3	Existing	3	DetC2	0						-
P20		DetD Prop	160	15	5 14	0.63	Box Cuiverts	1.2W x 0.45H			Existing		DetC3	0						-
P22	DetC4	DetD Prop	160	19	14	0.63	Box Cuiverts	1.2W x 0.45H	-	0.3	Existing	2	DetC4	0		1	1			
P24	DetC5	DetD Prop	160	11	5 14	0.63	Box Culverts	1.2W x 0.45H	1	0.3	Existing	3	DetC5	0						
P26	DetCo	DetD Prop	160		5 14		Box Culverts	1.2W x 0.45H		0,3	Existing	2	DetC6	0	1	1	+		1	-
P10	HW2	N50	21	11.4	11.4	0.24	Bax Culverts	2W x 1.8H	1.000	0.3	Existing	2	HW2	0		1	Paris and	-		
	9 (P					1						-								-
DETAILS OF SERVICES CROSSING PIPES	1 1 2 2 1		1.00	1			1	-		1			1			1	1.11	1	1 1	
Pipe	Chg	Bottom	Height of Service	Chg	Battom	Height of Service	Chg	Battom	Height of Servic	e etc		1	1				1			-
	(m)	Elev (m)	(10)	(m)	Elav (m)	(m)	(m)	Elev (m)	(m)	etc			U				h		-	-
the second s	A Destination of the	1. 1		1						T			1				1	1	S	-
CHANNEL DETAILS	2 mm - 1	100	1.000		1	4		1		100	-		10001			1	1	1	-	E
Name	From	To	Туре	Langth	U/SIL	D/S IL	Slope	Base Width	L.B. Slope	R.B. Slope	Manning		Roofed			·	÷			-
	1.000			(m)	(m)	(m)	(%)	(m)	(1:?)	(1:7)	л	(m)	10.000			-	1			-
and the second se	-			1000	1.1			-	1	1		_						-		_
OVERFLOW ROUTE DETAILS	-	-		-	-	-	-				-	-	1	-	1000	-		L	-	_
Name	From	To	Travel	Spill	Crest	Wen	Cross	Safe Depth	SafeDepth	Safe	Bed	EVS Area		id .	U/S/L	D/SIL	Length	(m)		-
	1		Time	Level	Length	Coeff. C	Section	Major Storms	Minor Storms	DxV	Slope	Contributing				a destruction of	1.254	-	-	-
	-		(min)	(m)	(m)		h	(m)	(m)	(sq.m/sec)		36	1			-	1.2.7			_
OF9		OutBEx	0,1			-	Dummy used to model flow across road low points	0,1	0.0			0		1051048			1	-		_
OF12		N4	0.1				Dummy used to model flow across road low points	0.2				0	F	1575195	-		1		1	
OF26		HW2	- 0,1		-		Dummy used to model flow across road low points	0.2				0		5647957	_	-	-			_
OF1		N4	0.1				Dummy used to model flow across road low points	0.3				C		70						
OF19		N40	01				Dummy used to model flow across road low points	0.2				0	-	4370450		-	1	-		-
OF17		OutAE	0.1		-		Dummy used to model flow across road low points	03				0		4370449		-	1.000			_
StageDischarge_B	DetB Prop	N69	0.1	14	-	1	Dummy used to model flow across road low points	0.1	0.0	5 0.6		9		13086155	-	-	1		+ +	_
OF43	N62	DetB Prop	0,1		-	1	Dummy used to model flow across road low points	0.1					1	13096141		-	1			_
OF44	N63	DetB Prop				4	Dummy used to model flow across road low points	0.2				0		13086142	-	-		-	++	_
OF46	N64	N69	0.1				Dummy used to model flow across road low points	0.3						13086156	_	-		-	++	_
OF47		N69	-4.05		-	-	Dummy used to model flow across road low points	0.3							-	-	-	-		
OF51 OF58		OutB Prop			-		Dummy used to model flow across road low points	0.2						13085163	-	-	-		-	
OF59		DetA Prop	0,1		-		Dummy used to model flow across road low points. Dummy used to model flow across road low points	0.1				0	-	14111589	-		-			
OF60		N79	0.1				Dummy used to model flow across road low points	0.2						14111590		+		<u> </u>		
OF61		N79	0.1		-		Dummy used to model flow across road low points	0.2						14111591		-	-			
OF64		OutA Prop	0.1		-		Dummy used to model flow across road low points	0.1						14111594	-		-			
	DetA Prop		0.1		-	-	Durning used to model flow across road low points	0.1						14111593	-	-	-			
StageDischarge_A OF549		DetD Prop	0.1	16.25		16	Dummy used to model flow across road low points	0.3	0.0			1 2		84388929		-	-		+	
StageDischarge D	DetD_Prop		0.1			1.0	Dummy used to model flow across road low points	0.3						15137076	-	-	1	-		
StageDischarge_D OF550		DetD Prop	0,1			1 16	Dummy used to model flow across road low points	0.1					1	84388930		+		<u> </u>		
OF551		DetD Prop	0.1		200		Durning used to model flow across road low points	0.1				0	1	B4388931	1	1	1	1	+	
OF562		DetD Prop	0.1		200		Dummy used to model flow across road low points	0.3				0	1	84368932		1	1			
OF553		DetD Prop	0.1		200		Dummy used to model flow across road low points	0.2				0		94398933		-			-	
OF554		DetD Prop	0.1				Dummy used to model flow across road low points	0.3				i i		84368934		-		-		
OF102		OutC Prop	0.1			1.0	Dummy used to model flow across road low points	0.1						15137087		-		-		
OF101		DetD Prop	0.1		1		Dummy used to model flow across road low points	0.1				0	1	15137085		1		-	1-1	
OF131	N96	DetD Prop	0.1		1		Dummy used to model flow across road low points	0.1	0.0			1		20006340		-				
OF104	1197	N92	0.1		1		Duminy used to model flow across road low points	0.3				i i		15137089	-	1	-			
OF205		DetA Prop	0.1		1		Dummy used to model flow across road low points	0.0				i i		46653710		1		-		
OF485		HW2	0.1		1	1	Dummy used to model flow across road low points	0.0				0		B4070745		1			1	
OF305		DetD Prop	0.1		1		Dummy used to model flow across road low points	0.3				i c	1	66906727		1	1	-	-	
OF340		DetB Prop	0.1				Dummy used to model flow across road low points	0.2				0	-	73934575	1	1		-	1	
OF28		N50	0.1		2 20	16	Dummy used to model flow across road low points	0.3						5647963	-	-			1	
OF30		OutCEx	0.1		-		Dummy used to model flow across road low points	0.2				- č		5647967	-	+		-	+	
OF497		N92	0.1		1		Dummy used to model flow across road low points	0						B4070747	-	+		-	+	
OF594		N75	0.1		-		Dummy used to model flow across road low points	0.1					-	B4402422		-		-		
OF593		N326	- 0.1		1		Dummy used to model flow across road low points	0.1						84402421	-	-	-	-	+	
					-										k	**			-	
OF690	N328	N327	0.1				Dummy used to model flow across road low points	0.	0.0	5 0.8	\$ 1			64402419						

2 Year ARI Results

and the second s									
DRAINS Model	I Name and F	A DESCRIPTION OF THE OWNER OF	the second s	D-Calculations\	C-Civil\Stormw	atenDRAINS	Post PEAMod	orebank_REV02-20110713.dm	
DRAINS Version: Modeller's Name:		2010.09 - 5 A Chris McClell	-						
Description:	-	Moorebank O				_		-	
							(E		
DRAINS results prep	bared 09 Augu	st, 2011 from	Version 2010.0	9					RESULTS
UT INODE DETAIL				Vanian B					and the second se
PIT / NODE DETAIL	Max HGL	Max Pond	Max Surface	Version 8 Max Pond	Min	Overflow	Constraint		2 YEAR ARI
Varine	WBA HOL	HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)	Constraint		
			(cu.m/s)	(cu.m)	(m)			1	
IW2	12.34	5.744		N	1.86		None		
150	11.97	1 T T 1	0	1	1.11				
		1		1			. Inc		
SUB-CATCHMENT	Max	Paved	Grassed	Paved	Grassed	Supp:	Due to Storm		
	Flow Q	Max Q	Max Q	Tc	Tc	Tc	Due to Storm		
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)	0.000	And and a second second second	1
atchB1Ex	0.185			3	8		AR&R 2 year	2 hours storm, average 22 mm	h, Zone 1
atchC1Ex	0.617	D.542	0.076	7	7			25 minutes storm, average 54 7	
atchBEx	2,76	1,56	1.313	14.5	24			. 2 hours storm, average 22 mm	
atchAEx atB1_Prop	4.115	3.019	1.136		15			, 25 minutes storm, average 54 7 , 25 minutes storm, average 54 7	
atB2(Swale)_Prop	0.785	0.785	0		8.5			, 25 minutes storm, average 54.7	
atB1Ext_Prop	0.185	0	0.185		8			2 hours storm, average 22 mm	
atB2Ext_Prop	0.06	0		8.5	15.5			, 2 hours storm, average 22 mm	
atA1_Prop	2.222	2.222	0	-	3			, 25 minutes storm, average 54.7	
atA2(Swale)_Prop	0.819	0.819	0	12	11		and the second sec	25 minutes storm, average 54.7	the second particular of the second sec
atA1Ex_Prop	1.185	0.682	0.512	13.2	8.3			, 25 minutes storm, average 54.7	
atA2Ex_Prop	0.076	1.078	0.076	0	18		and the second se	. 1 hour storm, average 33.7 mm . 5 minutes storm, average 109 m	
atCa_Prop	1.078	1.078	0		0			, 5 minutes storm, average 109 r	
atCc_Prop	1.021	1.021	0		0		a second s	5 minutes storm, average 109 r	
CatCd_Prop	1.064	1.064	0		. 0		AR&R 2 year	5 minutes storm, average 109 r	nm/h, Zone 1
atCe_Prop	0.979	0.979	0		0			, 5 minutes storm, average 109 r	
atCf_Prop	1.095	1.095	0		0			5 minutes storm, average 109 r	
alC2_Prop	3.907	3.907	0.076		0	-	the second second second second second	5 minutes storm, average 109 r	
atCEx1_Prop atCEx2_Prop	0.817	0.542	0.076	21.7	25			25 minutes storm, average 54.7 , 1.5 hours storm, average 26.3	
at_A3_Prop	0.721	0.721	0.007		0			, 5 minutes storm, average 109 r	
at Carpark_Ex	0.618	0.618	0					, 25 minutes storm, average 54.7	
atC1_Prop	0.648	0.648	0	3	0	(AR&R 2 year	5 minutes storm, average 109 r	nm/h. Zone 1
atB3Ext_Prop	0.083	0		0			and the second se	, 2 hours storm, average 22 mm	
atchCEx	4.757	3.863	0,998	25	30			, 1 hour storm, average 33,7 mm	
at Carpark_Prop	0.618	0.618	0	5				25 minutes storm, average 54.7	
Cat1	0.279	0.192	0.09	5	12			, 1.5 hours storm, average 26.3 r , 25 minutes storm, average 54.7	
Cat3	0.000	0.072	0.045	4				. 1.5 hours storm, average 26.3 i	
at4	3.294	3.126	0.175	5	15			25 minutes storm, average 54.7	
Cal5	0.127	0,083	0.045	6	8	(AR&R 2 year	, 25 minutes storm, average 54.7	7 mm/h, Zone 1
Cat6	0.044	0.029	0.015					, 25 minutes storm, average 54.7	
CatA4_Prop	1 533	1 533	0					25 minutes storm, average 54	
atA5_Prop	1.732	1.732	0					25 minutes storm, average 547 25 minutes storm, average 547	
atB3_Prop	1.258	1.258	0					25 minutes storm, average 54 7	
didd_riop	1.2.00						fundin 1 judi		THINK, 2015.1
					1.27.11		/		
butflow Volumes for							$i_{i} = -i_{i}$		
				Pervious Rund				1	1
	10807.55			du.m (Runoff 9					
R&R 2 year, 5 min R&R 2 year, 10 mi				107.67 (1.9%)		-	-		
R&R 2 year, 15 mi				2232.30 (20.7					
R&R 2 year, 20 mi				3294.72 (26.2					
R&R 2 year, 25 mi	49700.61	38202,99 (76	34102.68 (95.)	4100.31 (29.29	(6)				
R&R 2 year, 30 mi				4552.62 (29.7					
R&R 2 year, 45 mi				5922.79 (32.29					
R&R 2 year, 1 hou R&R 2 year, 1.5 ho	and the second se	and the second	and the second second	6956.94 (33.5% 7922.08 (32.6%	-	-	1		
R&R 2 year, 1.5 hou				8741.31 (32.3					
R&R 2 year, 3 hou				9779.50 (31.3					
R&R 2 year, 4.5 hd				10013.30 (27.8			1		
				-			1		
IPE DETAILS					-	-	1		
ame	Max Q	Max V	Max U/S	Max D/S	Due to Storm				
ine13	(cu.m/s) 1.018	(m/s)	HGL (m) 15.29	HGL (m) 15 273	AREP 21	25 minutes	torm aurent	54.7 mm/h: 7ore 1	
ipe13 18	0.964	15						54.7 mm/h, Zone 1 54.7 mm/h, Zone 1	
20	0.962	1.4	15.284					54.7 mm/h, Zone 1	
22	1.004	1.5	15.288					54.7 mm/h, Zone 1	
24	0.921	1.4	15.283	15.273	AR&R 2 year	25 minutes s	torm, average	54.7 mm/h, Zone 1	
26	1.034	1.5	15.292					54.7 mm/h, Zone 1	
10	5,744	2,5	12,017	11.967	AR&R 2 year	1.5 hours sto	orm, average 2	6.3 mm/h. Zone 1	
HANNEL DETAILS		-							
	Max Q	Max V	Chainage	Max	Due to Storm	-			
	(ou.m/s)	(m/s)	(m)	HGL (m)	Dee to stort		1		
			1						
VERFLOW ROUT									
	Max Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V	Due to Storm	
0F9	0.4	0.4	0.256		0.04	and the second se		AR&R 2 year, 2 hours storm, av	
0F12	0.185		0.256		0.03	12.89		AR&R 2 year, 2 hours storm, av	
DF26	0.617	0.617	0.256	0.071	-	10.20		AR&R 2 year, 25 minutes storm	
DF1	0.279	0.279	0.256	0.052	0.03	14.33	0.07	AR&R 2 year, 3 hours storm, av	erane 16.9 mm/h Zoos 1