

DRAINS results prepared 07 October, 2008 from Version 2008.05

PIT / NODE DETAILS

Version 8

Name	Max HGL	Max Pond HGL	Max Surface Flow (cu.m/s)	Max Pond Volume (cu.m)	Min Freeboard (m)	Overflow (cu.m/s)	Constraint
N193	3.41			0			
N282	3.25			0			

SUB-CATCHMENT DETAILS

Name	Max Flow (cu.m/s)	Due to Storm
Exist Cat A	0.59	AR&R 100 year, 1.5 hours storm, average 75 mm/h, Zone 1
Cat A	1.859	AR&R 100 year, 2 hours storm, average 63 mm/h, Zone 1
Exist Cat B	0.201	AR&R 100 year, 45 minutes storm, average 109 mm/h, Zone 1
Cat B	0.528	AR&R 100 year, 1.5 hours storm, average 75 mm/h, Zone 1

Outflow Volumes for Total Catchment (2.98 impervious + 7.67 pervious = 10.6 total ha)

Storm	Total Rainfall cu.m	Total Runoff cu.m (Runoff %)	Impervious Runoff cu.m (Runoff %)	Pervious Runoff cu.m (Runoff %)
AR&R 100	2359.97	936.23 (39.7%)	11.59 (0.5%)	924.64 (54.4%)
AR&R 100	3744.02	2080.86 (55.6%)	158.04 (4.2%)	1922.82 (71.3%)
AR&R 100	4790.93	2998.46 (62.6%)	319.99 (6.7%)	2678.47 (77.6%)
AR&R 100	5642.64	3695.81 (65.5%)	402.28 (7.1%)	3293.53 (81.0%)
AR&R 100	6387.9	4112.47 (64.4%)	282.30 (4.4%)	3830.17 (83.2%)
AR&R 100	7079.92	4680.46 (66.1%)	352.01 (5.0%)	4328.45 (84.9%)
AR&R 100	8703.51	6201.64 (71.3%)	701.66 (8.1%)	5499.98 (87.7%)
AR&R 100	10114.18	7660.27 (75.7%)	1144.51 (11.3%)	6515.76 (89.4%)
AR&R 100	11993.28	10517.34 (87.7%)	2656.06 (22.2%)	7861.28 (91.0%)
AR&R 100	13414.59	10709.91 (79.8%)	1819.62 (13.5%)	8890.29 (92.0%)
AR&R 100	15650.36	7395.24 (47.3%)	-3101.95 (-19.8%)	-10497.19 (93.1%)

PIPE DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)	Due to Storm
Pipe56	0.452	2.7	3.46	3.41	AR&R 100 year, 2 hours storm, average 63 mm/h
P69	0.111	2	3.301	3.251	AR&R 100 year, 2 hours storm, average 63 mm/h

CHANNEL DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Chainage (m)	Max HGL (m)	Due to Storm
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OVERFLOW ROUTE DETAILS

Name	Max Q U/S (cu.m/s)	Max Q D/S (cu.m/s)	Safe Q (cu.m/s)	Max D (m)	Max DxV (m/s)	Max Width (m)	Max V (m/s)	Due to Storm
OF181	0.59	0.59	1.931	0.153	0.22	4	1.43	AR&R 100
OF175	0	0	5.556	0	0	0	0	
OF179	0.452	0.452	1.931	0.137	0.18	4	1.3	AR&R 100
OF220	0.201	0.201	1.931	0.103	0.1	4	0.95	AR&R 100
OF230	0	0	5.556	0	0	0	0	
OF235	0.111	0.111	1.931	0.083	0.07	3.34	0.8	AR&R 100
OF252	0.563	0.563	5.556	0.094	0.1	7.76	1.09	AR&R 100

DETENTION BASIN DETAILS

Name	Max WL	MaxVol	Max Q Total	Max Q Low Level	Max Q High Level
Basin A	4.18	2240	0.452	0.452	0
Basin2	4.18	540	0.111	0.111	0

CONTINUITY CHECK for AR&R 100 year, 1.5 hours storm, average 75 mm/h, Zone 1

Node	Inflow (cu.m)	Outflow (cu.m)	Storage Cr (cu.m)	Difference %
Creek	10512.29	10512.29	0	0
N183	4225.35	4225.35	0	0
Basin A	4478.33	4479.88	1.19	-0.1
N193	4479.88	4479.87	0	0
N278	653.23	653.23	0	0
Basin2	1161.22	1161.29	1.43	-0.1
N282	1161.29	1161.27	0	0
N303	5639.75	5639.71	0	0