



**Rail Bridge - Accumulated Debris After Event From DS South Bank**



**Rail Bridge - Accumulated Debris After Event From US South Bank**

**APPENDIX B10. JUNE 1991 FLOOD PHOTOGRAPHY (E Rigby) (ctd)**



## RECORDED FLOOD LEVELS (DNR)

The Department of Natural resources operates a continuous stage recorder (CSR) immediately downstream of the Princes Highway road bridge. Table A.B9.1 provides a summary of the data recorded during the June 1991 flood event.(refer also Appendix B7)

Table A B9.1: Recorded Peak Flood Level at Princes Highway CSR

STATION	PEAK LEVEL	TIME OF PEAK	
	(m AHD)	(Hour)	(Date)
Macquarie Rivulet at Princes Highway	3.65	1045	11.6.91

Several Maximum Height Recorders are also maintained by the Department in this catchment. Peak flood levels registered at these gauges are tabulated below.

Table A B9.2: Recorded Peak Flood Levels at MHIs

CREEK	LOCATION	RL (m AHD)
Macquarie Rivulet	Princes Highway – D/S	3.600
	Foot of Macquarie Pass – D/S	66.460
	Illawarra Highway at Tongarra Creek – D/S	53.630
	Illawarra Highway at Yellow Rock Creek – D/S	17.610
	“Cricklewood” at Marshall Mt Creek	43.030
	“Riversdale” at Marshall Mt Creek	8.470

Several flood debris marks were surveyed after the event to give comprehensive flood level information for the Macquarie Rivulet catchment. Tables 3.1.1a and c detail the additional surveyed flood levels.

Table A B9.3: Recorded Peak Flood Levels From Debris Survey

NO.	LOCATION	RL (m AHD)
1	CSR Peak Reading – R/B D/S Princes Highway Bridge	3.610
2	Debris line – R/B U/S Princes Highway Bridge	3.645
3	Debris line – R/B U/S Illawarra Highway floodway	3.560
4	Debris line – R/B U/S Illawarra Highway floodway	3.560
5	Debris in tree – R/B U/S near Illawarra Highway	8.320
6	Debris in fence – R/B End of Hamilton Road	9.870
7	Debris in fence – R/B U/S Calderwood Road Bridge	11.410
8	Debris in fence – R/B western fence on farm U/S Calderwood Road	11.490
9	Debris line – L/B D/S Illawarra Highway at Yellow Rock Creek Bridge	17.280
10	Debris line – L/B U/S Illawarra Highway at Yellow Rock Creek Bridge	17.580
11	Debris in tree – D/S R/B Nth Macquarie Road floodway	26.580
12	Debris in fence – L/B D/S Tongarra Road cul on Central Frazers Creek	6.390
13	Debris in fence – L/B U/S Tongarra Road cul on Central Frazers Creek	6.570
14	Debris line – L/B D/S Tongarra Road Bridge on East Frazers Creek	7.865
15	Debris line – L/B U/S Tongarra Road Bridge on East Frazers Creek	8.715



16	Debris line – L/B U/S Illawarra Highway cul near Taylors Road	6.075
17	Debris line – L/B 100 m U/S Illawarra Highway cul near Taylors Road	6.220
18	Debris in tree – L/B D/S Cascading Basin on West Frazers Creek	9.750
19	Debris line – R/B U/S Cascading Basin on West Frazers Creek	10.100
20	Debris in tree – R/B 150 m D/S Terry Street cul on West Frazers Creek	10.860
21	Debris line – L/B D/S Terry St cul on West Frazers Creek	12.970
22	Debris line – L/B U/S Terry St cul on West Frazers Creek	13.800
23	Debris line – R/B D/S Simpson Pde cul on West Frazers Creek	22.550
24	Debris in fence – R/B U/S Simpson Pde on West Frazers Creek	24.210
25	Debris in tree – L/B at end of Frazers Cres on Central Frazers Creek	8.620
26	Debris in tree – L/B 50 m D/S of causeway to Polo Club on Central Frazers Creek	13.830
27	Debris in fence – L/B U/S footbridge at end of Hughes Drive on Central Frazers Ck	14.090
28	Debris line – L/B D/S Retarding Basin at end of Smith Ave	16.300
29	Debris line – L/B D/S Terry St cul on Central Frazers Creek	24.600
30	Debris in tree – L/B northern end of Polo Field on East Frazers Creek	12.845
31	Debris in tree – L/B in Polo Field on East Frazer Creek	13.790
32	Debris in tree – L/B D/S footpath at end of Hughes Dr on East Frazers Creek	16.480
33	Debris line – R/B D/S Marshall Mt Road culv	18.150
34	Debris in fence – R/B D/S Marshall Mt Road	18.490
35	Debris line – R/B U/S Marshall Mt Road culv	19.010

## APPENDIX B11. JUNE 1991 RECORDED FLOOD LEVELS



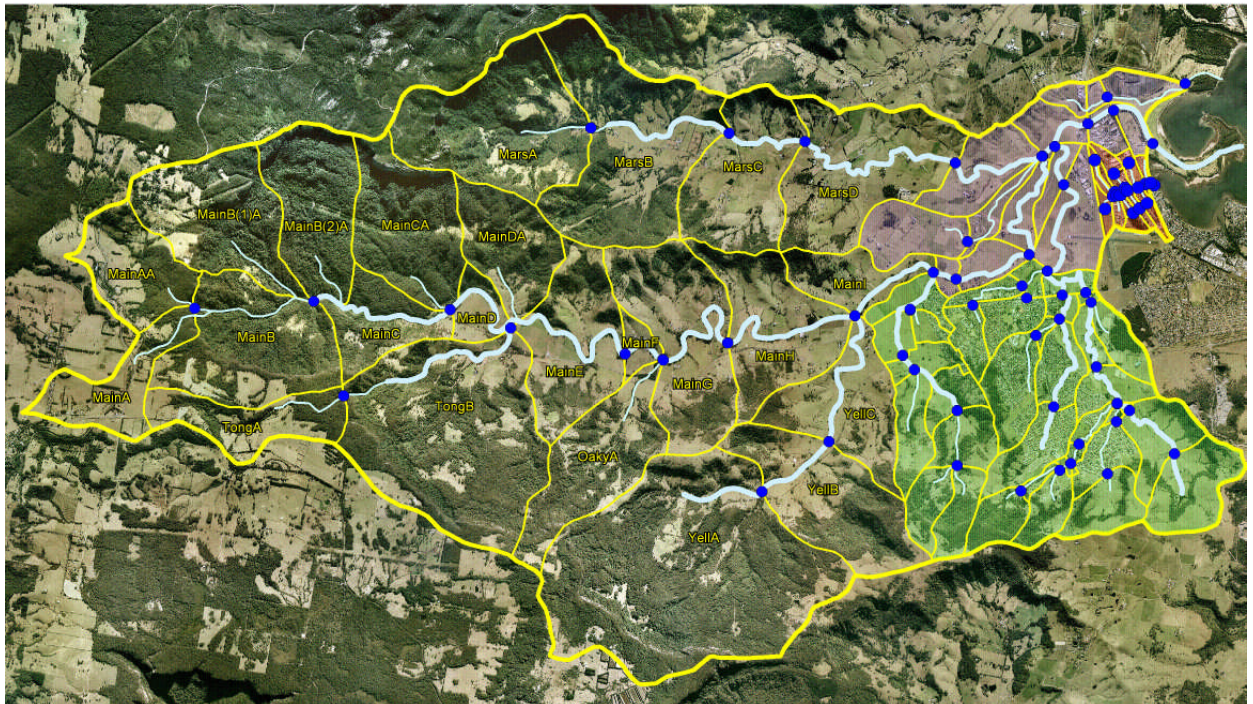
# **HYDROLOGIC MODEL ESTABLISHMENT**

- C.1 Hydrologic Model Layout**
- C.2 Hydrologic Model Impervious Cover**
- C.3 Hydrologic Model Storages & Diversions**

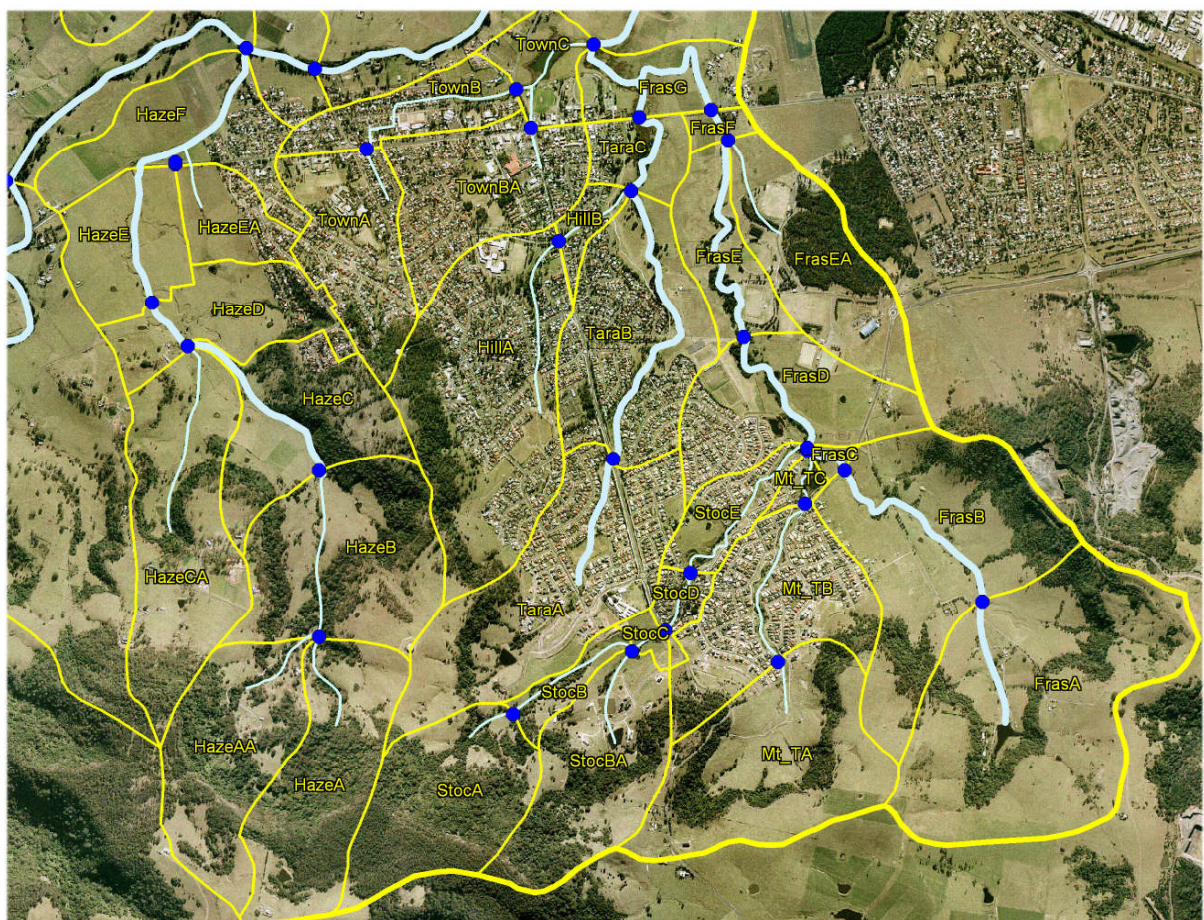
**C**  
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**APPENDIX C**





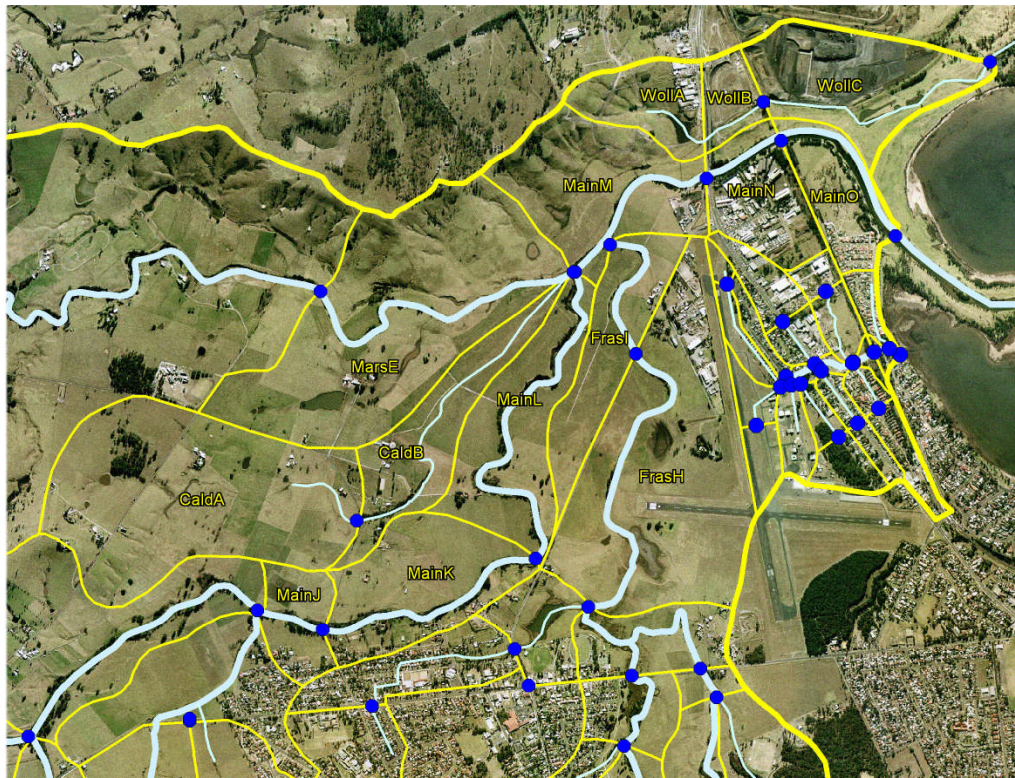
## LAYOUT – OVERALL



# ALBION PARK ENLARGEMENT

## APPENDIX C1 HYDROLOGIC MODEL LAYOUT





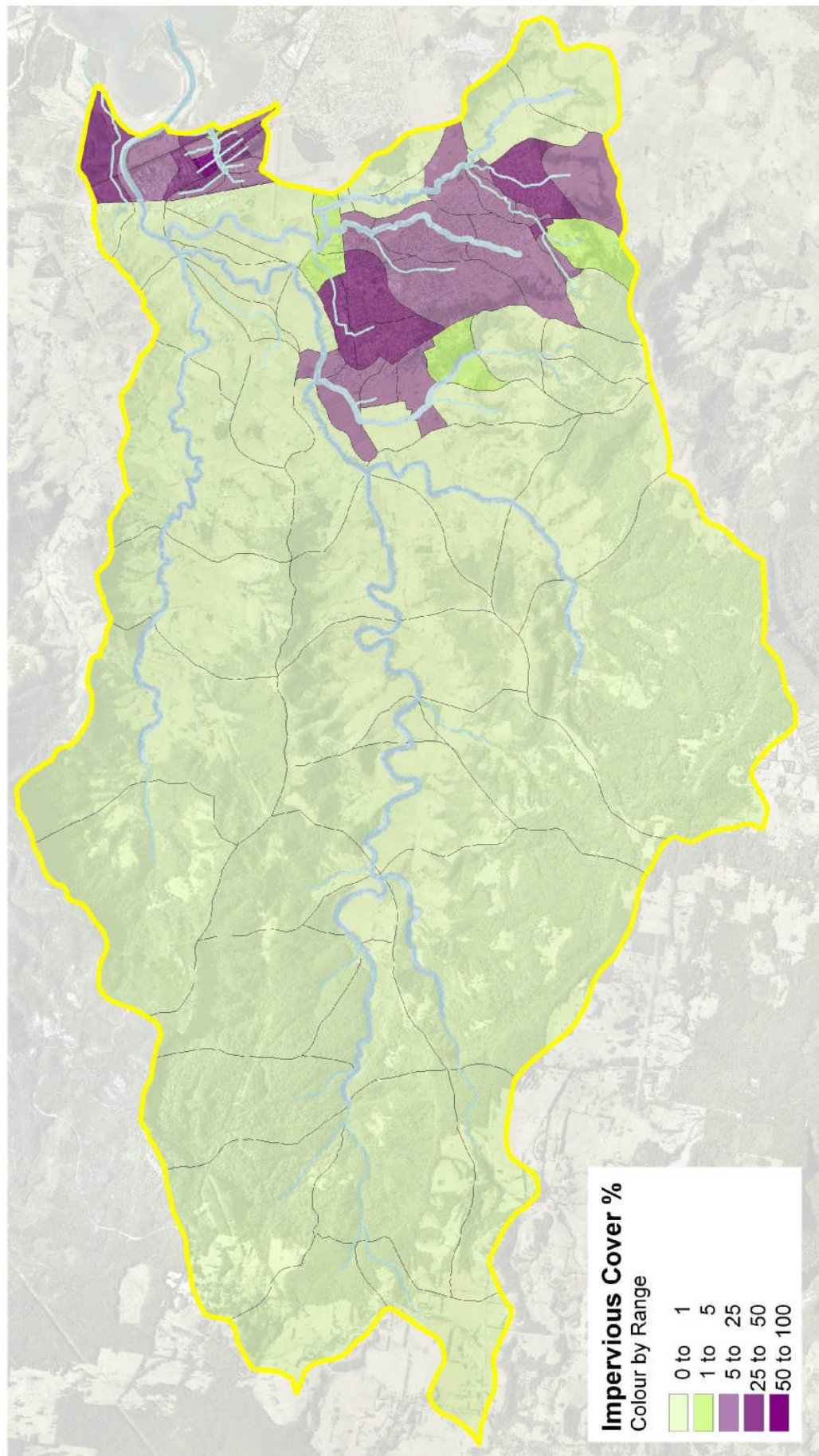
**ENLARGEMENT AT OUTLET**



**ENLARGEMENT AT ALBION CREEK**

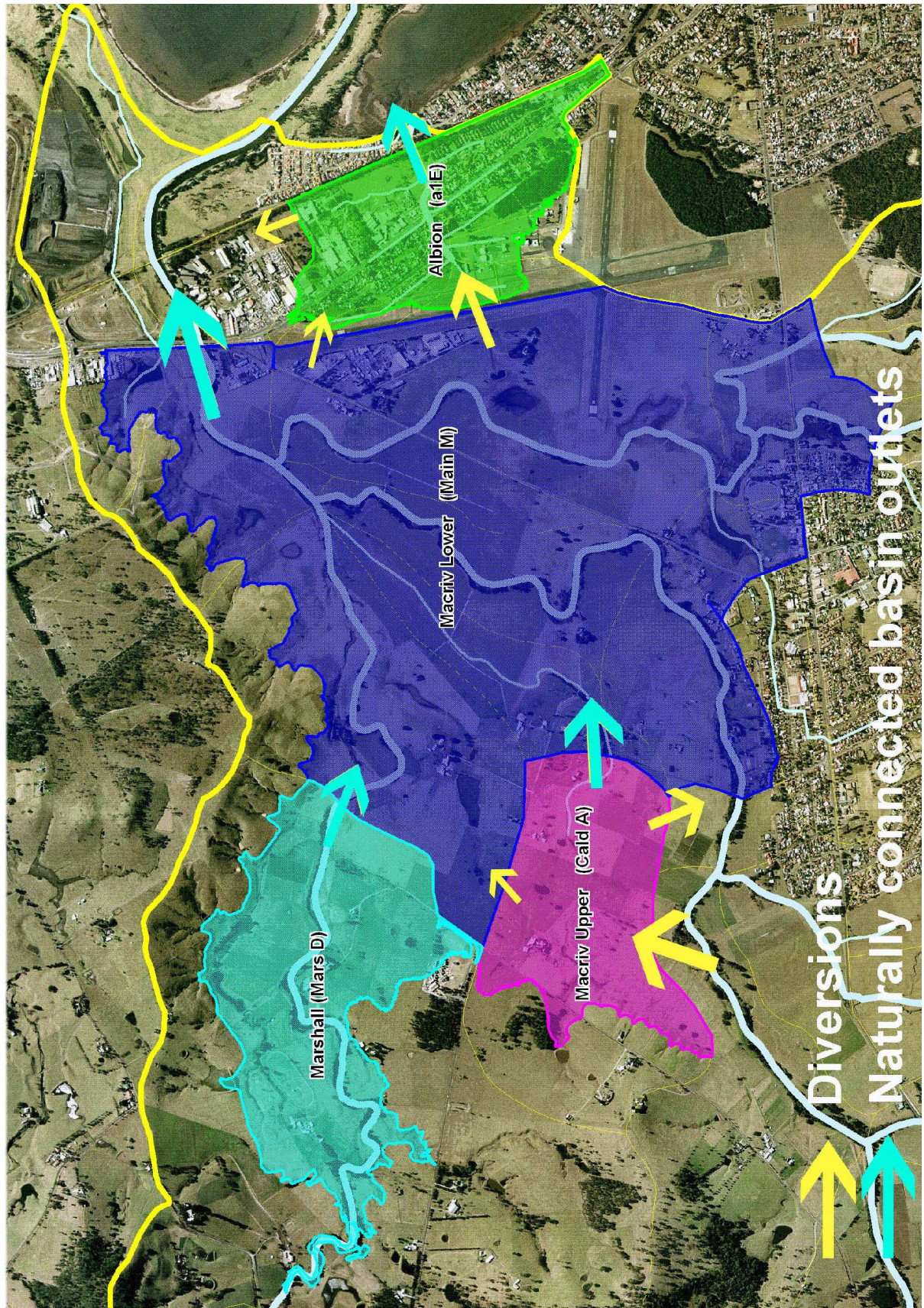
**APPENDIX C1 HYDROLOGIC MODEL LAOUT (ctd)**





APPENDIX C2, HYDROLOGIC MODEL IMPERVIOUS COVER





APPENDIX C3. HYDROLOGIC MODEL STORAGES & DIVERSIONS





# **HYDRODYNAMIC MODEL ESTABLISHMENT**

- D.1 Hydrodynamic Model Extents**
- D.2 Hydrodynamic Model Topography**
- D.3 Hydrodynamic Model Surface Roughness**
- D.4 Hydrodynamic Model Structures**
- D.5 Hydrodynamic Model Boundary Conditions**

**D**

**D**

**D**

**D**

**APPENDIX D**