



## **Report**

Gladstone Area Water Board  
Report on

### **Awoonga Dam Boyne River Dam Break and Flood Modelling Study**

**Volume II**

Date : October, 2003  
Project : E-02143



# **AWOONGA DAM**

## **BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**

### **VOLUME II**

#### **SECTION 1.0 LOCALITY MAP & HYDRAULIC MODEL LAYOUT**

- Drawing A220732 – Locality Map
- Drawing A220483 – Hydraulic Model Layout
- Drawing A220734 – Catchments below Awoonga Dam

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- Table 3.2 – PMF – Failure – Maximum Water Levels – SDF, 6hr, 12hr, 24hr, 48hr
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- Table 3.7 – 48hr PMF Failure & No Failure – Summary of Results

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- Photo Mosaic – Sunny Day Failure – Maximum Flood Levels
- Photo Mosaic – PMF Fail/No Fail – Maximum Flood Levels
- Table 4.1 - PMF – No Failure – Maximum Water Levels – 6hr, 12hr, 24hr, 48hr
- Table 4.2 – PMF – Failure – Maximum Water Levels – SDF, 6hr, 12hr, 24hr, 48hr
- Table 4.3 – Sunny Day Failure – Summary of Results
- Table 4.4 – 6hr PMF Failure & No Failure – Summary of Results
- Table 4.5 – 12hr PMF Failure & No Failure – Summary of Results
- Table 4.6 – 24hr PMF Failure & No Failure – Summary of Results
- Table 4.7 – 48hr PMF Failure & No Failure – Summary of Results

# **AWOONGA DAM**

## **BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**

### **VOLUME II**

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- Photo Mosaic – Sunny Day Failure – Maximum Flood Levels
- Photo Mosaic – PMF Fail/No Fail – Maximum Flood Levels
- Table 5.1 – PMF – No failure – Maximum Water Levels – 6hr, 12hr, 24hr, 48hr
- Table 5.2 – PMF – Failure – Maximum Water Levels – 6hr, 12hr, 24hr, 48hr
- Table 5.3 – Sunny Day Failure – Summary of Results
- Table 5.4 – 6hr PMF Failure & No Failure – Summary of Results
- Table 5.5 – 12hr PMF Failure & No Failure – Summary of Results
- Table 5.6 – 24hr PMF Failure & No failure – Summary of Results
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#### **SECTION 6.0 DAM BREAK STUDY – Sensitivity Analyses**

- Table 6.1 – FSL40, PMF Failure (48hr) – Sensitivity Analysis on Time for Failure & Breach Width
- Table 6.2 – FSL45, PMF Failure (48hr) – Sensitivity Analysis on Time for Failure & Breach Width
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#### **SECTION 7.0 1 IN 100 AEP FLOOD MODELLING STUDY**

- Photo Mosaic – FSL 40, 45 & 55 – Maximum Flood Levels
- Photo Mosaic – FSL 55 – Maximum Flood Levels
- Table 7.1 – Model with Bridges included, Maximum Water Level – FSL 30, 40, 45, 55
- Table 7.2 – Model with Bridges included, Maximum Discharge - FSL 30, 40, 45, 55
- Table 7.3 – Model with Bridges included, Maximum Velocity - FSL 30, 40, 45, 55
- Table 7.4 – Model without Bridges, Maximum Water Level – FSL 30, 40, 45, 55
- Table 7.5 – FSL 55 - Sensitivity Analysis on adopted Mannings ‘n’ value

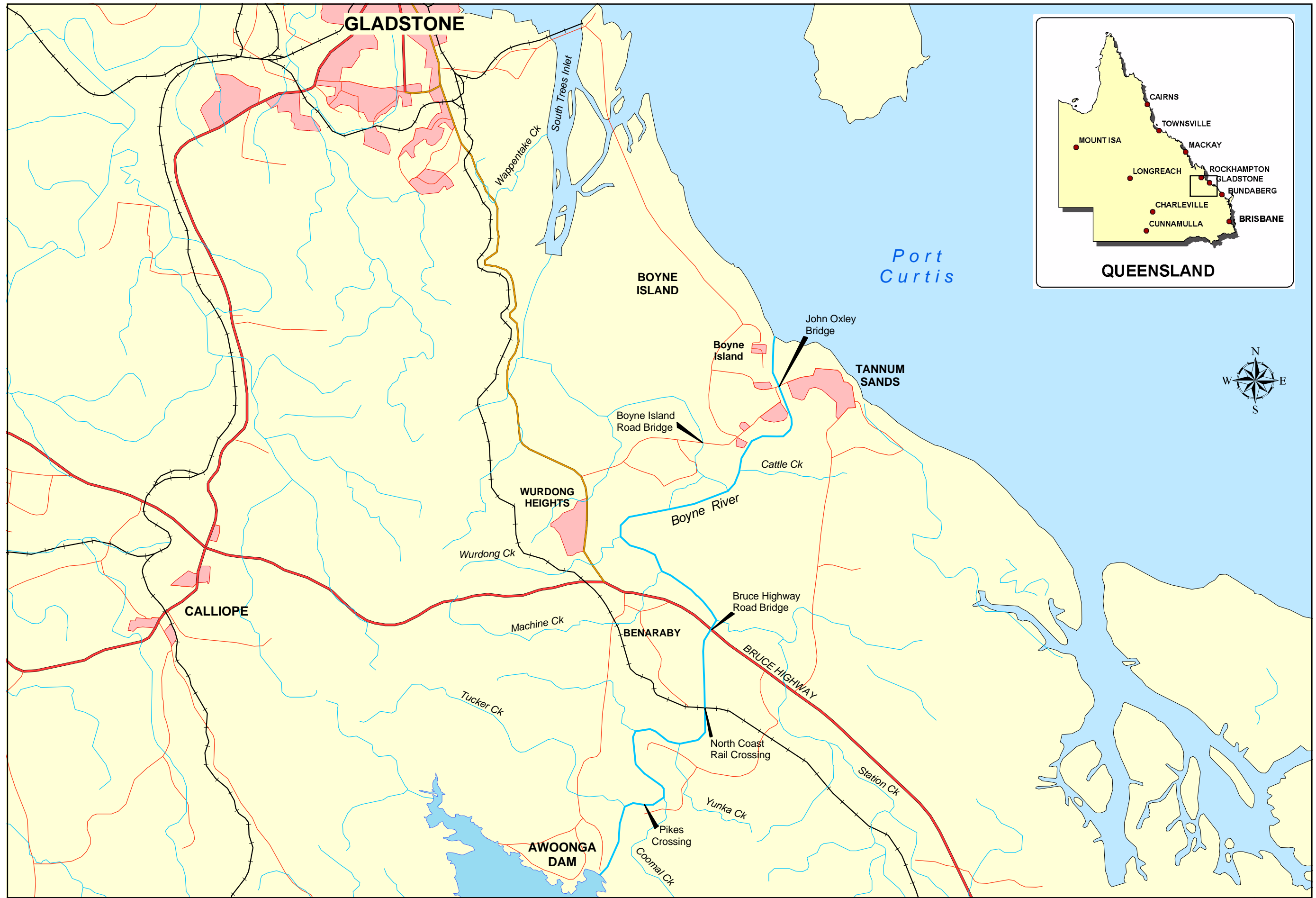
**AWOONGA DAM**

**BOYNE RIVER DAM BREAK  
AND FLOOD MODELLING STUDY**

**VOLUME II**

**SECTION 1.0            LOCALITY MAP & HYDRAULIC MODEL LAYOUT**

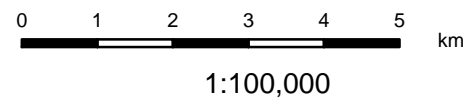
- Drawing A220732 – Locality Map
- Drawing A220483 – Hydraulic Model Layout
- Drawing A220734 – Catchments below Awoonga Dam



Document: C:\GIS\BoyerRiver\220732.mxd  
 Printed: Monday, October 20 2003 09:33:18 AM  
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**NOTES**

1. Base data from Geoscience Australia 1:1,000,000 series.
2. Projection: GDA94



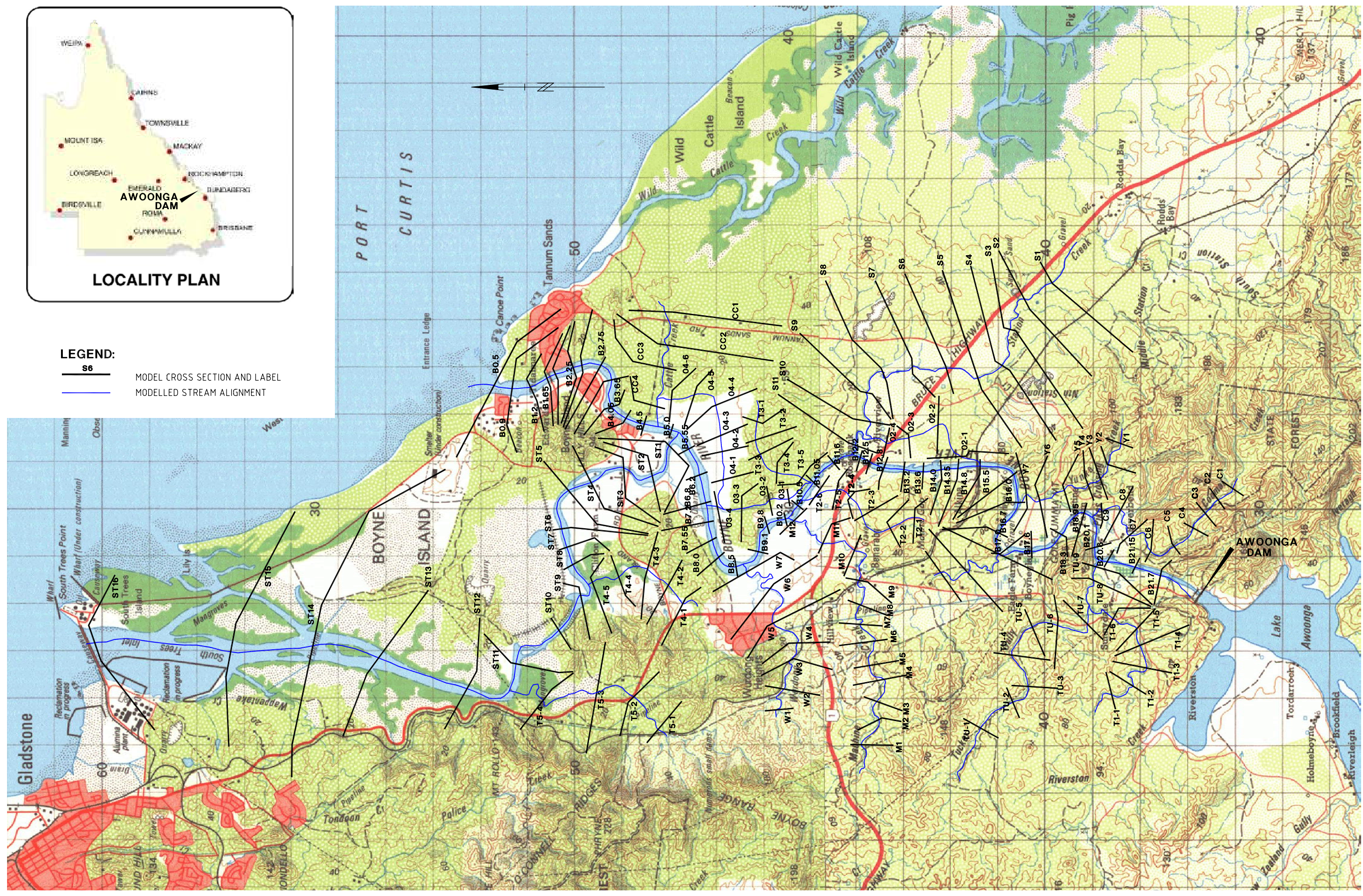
**AWOONGA DAM  
 BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY  
 LOCALITY MAP**  
 October 2003

220732

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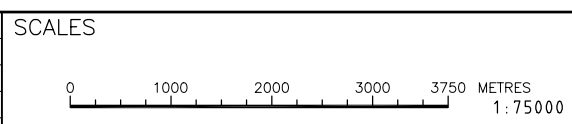


**LEGEND:**  
 S6 MODEL CROSS SECTION AND LABEL  
 MODELLLED STREAM ALIGNMENT



REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS	DESCRIPTION
220481-82	PHOTO MOSAIC - SDF FSL 55 MAXIMUM FLOOD LEVELS SHS 1 & 2	
220479-80	PHOTO MOSAIC - PMF FSL 55 MAXIMUM FLOOD LEVELS SHS 1 & 2	
220477-78	PHOTO MOSAIC - SDF FSL 45 MAXIMUM FLOOD LEVELS SHS 1 & 2	
220475-76	PHOTO MOSAIC - PMF FSL 45 MAXIMUM FLOOD LEVELS SHS 1 & 2	
220473-74	PHOTO MOSAIC - SDF FSL 40 MAXIMUM FLOOD LEVELS SHS 1 & 2	
220471-72	PHOTO MOSAIC - PMF FSL 40 MAXIMUM FLOOD LEVELS SHS 1 & 2	








DRAFTING	RET	DESIGN	DR
DRAFTING CHK		DESIGN CHK	
APPROVED			
<b>R.AYRE</b>			
PROJECT MANAGER			
WATER STUDIES			

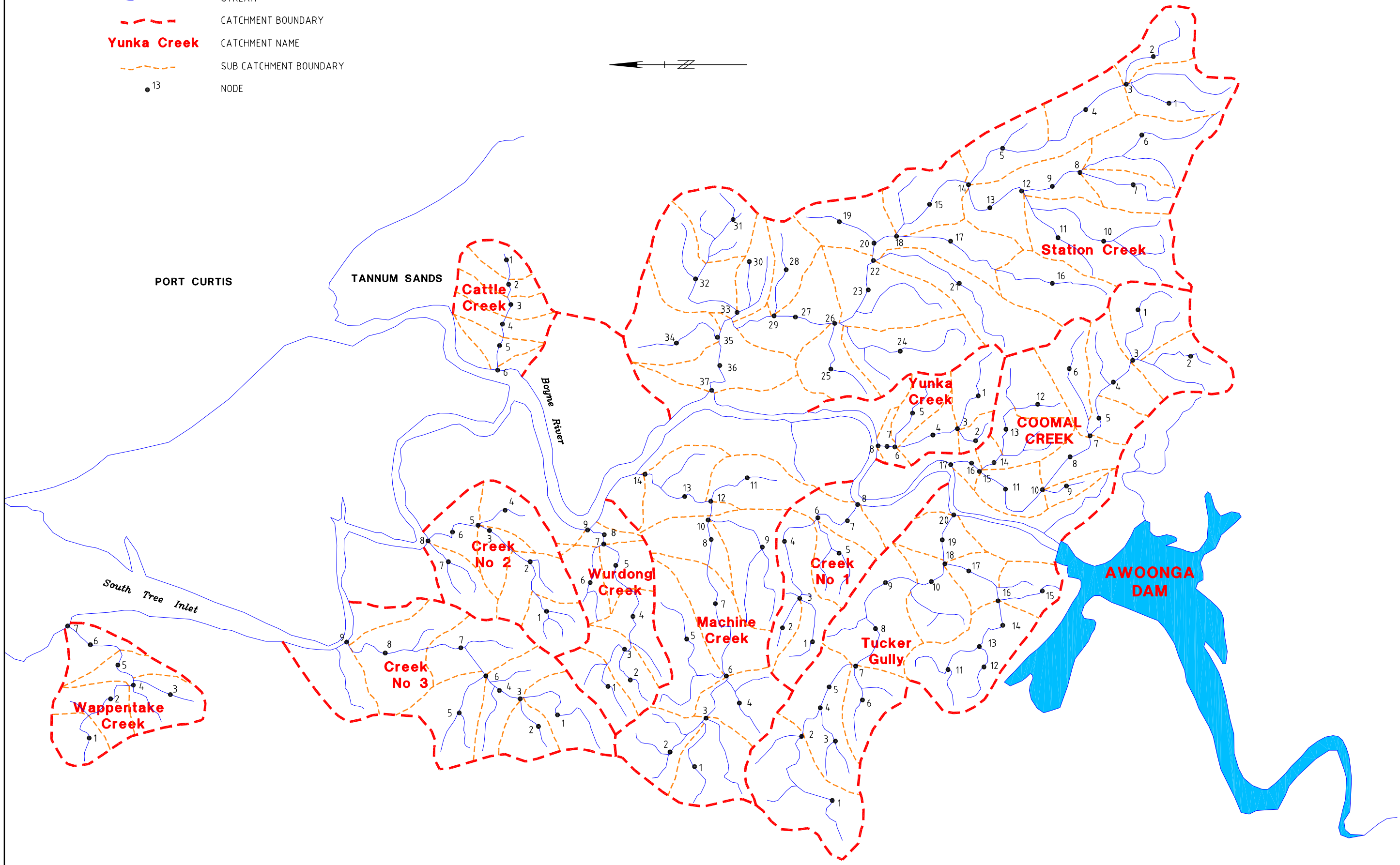
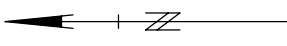


**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**FSL 40.0, 45.0 AND 55.0**  
**HYDRAULIC MODEL LAYOUT**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220483</b>
DATE	OCT 2003

**LEGEND:**

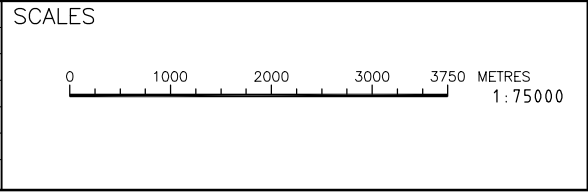
-  STREAM
-  CATCHMENT BOUNDARY
- Yunka Creek**  CATCHMENT NAME
-  SUB CATCHMENT BOUNDARY
-  NODE



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REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS



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R.AYRE	
PROJECT MANAGER WATER STUDIES	



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**CATCHMENT BELOW DAM**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220734</b>
DATE	OCT 2003

**AWOONGA DAM**

**BOYNE RIVER DAM BREAK  
AND FLOOD MODELLING STUDY**

**VOLUME II**

**SECTION 2.0**

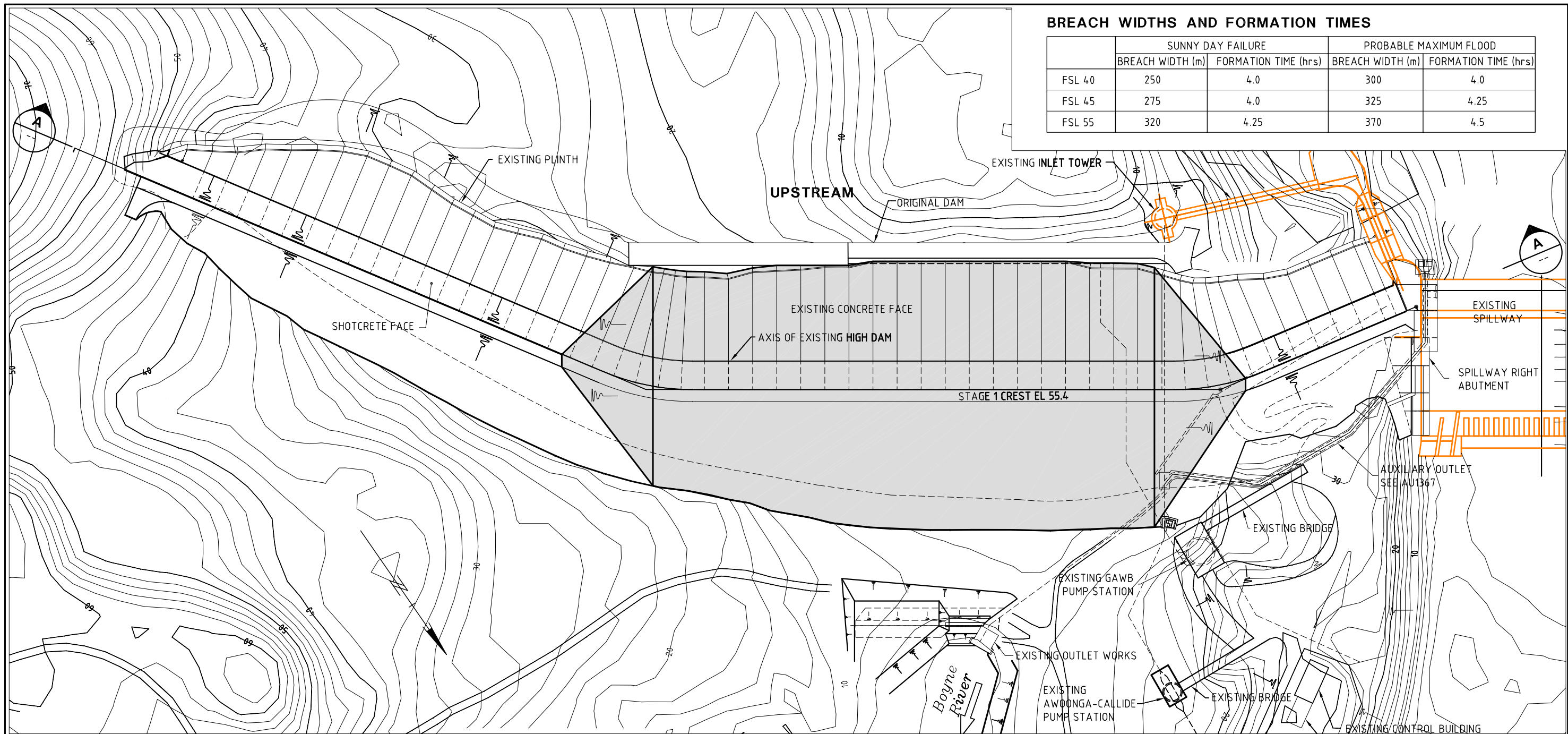
**AWOONGA DAM – GENERAL ARRANGEMENT & DAM BREAK PROFILE**



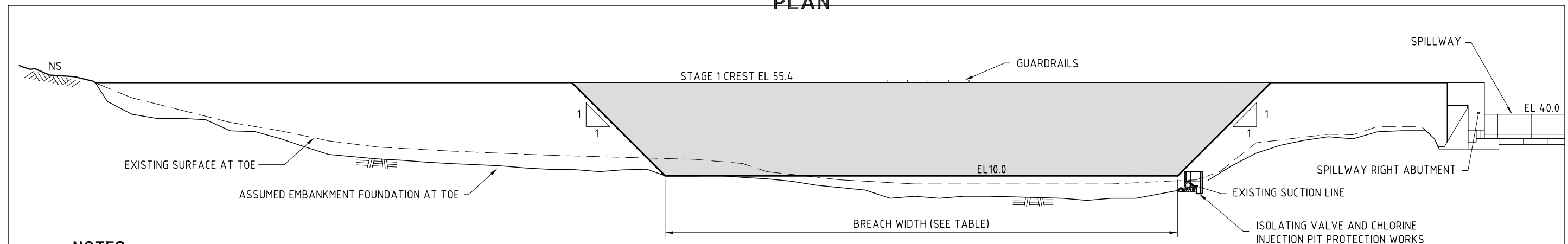
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**BREACH WIDTHS AND FORMATION TIMES**

	SUNNY DAY FAILURE		PROBABLE MAXIMUM FLOOD	
	BREACH WIDTH (m)	FORMATION TIME (hrs)	BREACH WIDTH (m)	FORMATION TIME (hrs)
FSL 4.0	250	4.0	300	4.0
FSL 4.5	275	4.0	325	4.25
FSL 5.5	320	4.25	370	4.5



**PLAN**



**SECTION A**

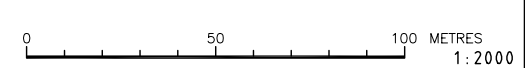
**NOTES:**

- LEVELS DATUM: AHD
- AZIMUTH DATUM: AMG

**LEGEND:**

▬ EMBANKMENT BREACH EXTENT

**SCALES**



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 APPROVED  
**R.AYRE**  
 PROJECT MANAGER  
 WATER STUDIES



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**ARRANGEMENT SHOWING BREACH EXTENT**  
**PROBABLE MAXIMUM FLOOD AND**  
**SUNNY DAY FAILURE**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220517</b>
DATE	OCT 2003

REVISION	DATE	REMARKS	CKD	PSD	REFERENCE	DRAWINGS

**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK**  
**AND FLOOD MODELLING STUDY**

**VOLUME II**

**SECTION 3.0                      DAM BREAK STUDY – FSL 40**

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- Table 3.7 – 48hr PMF Failure & No Failure – Summary of Results

**NOTES:**

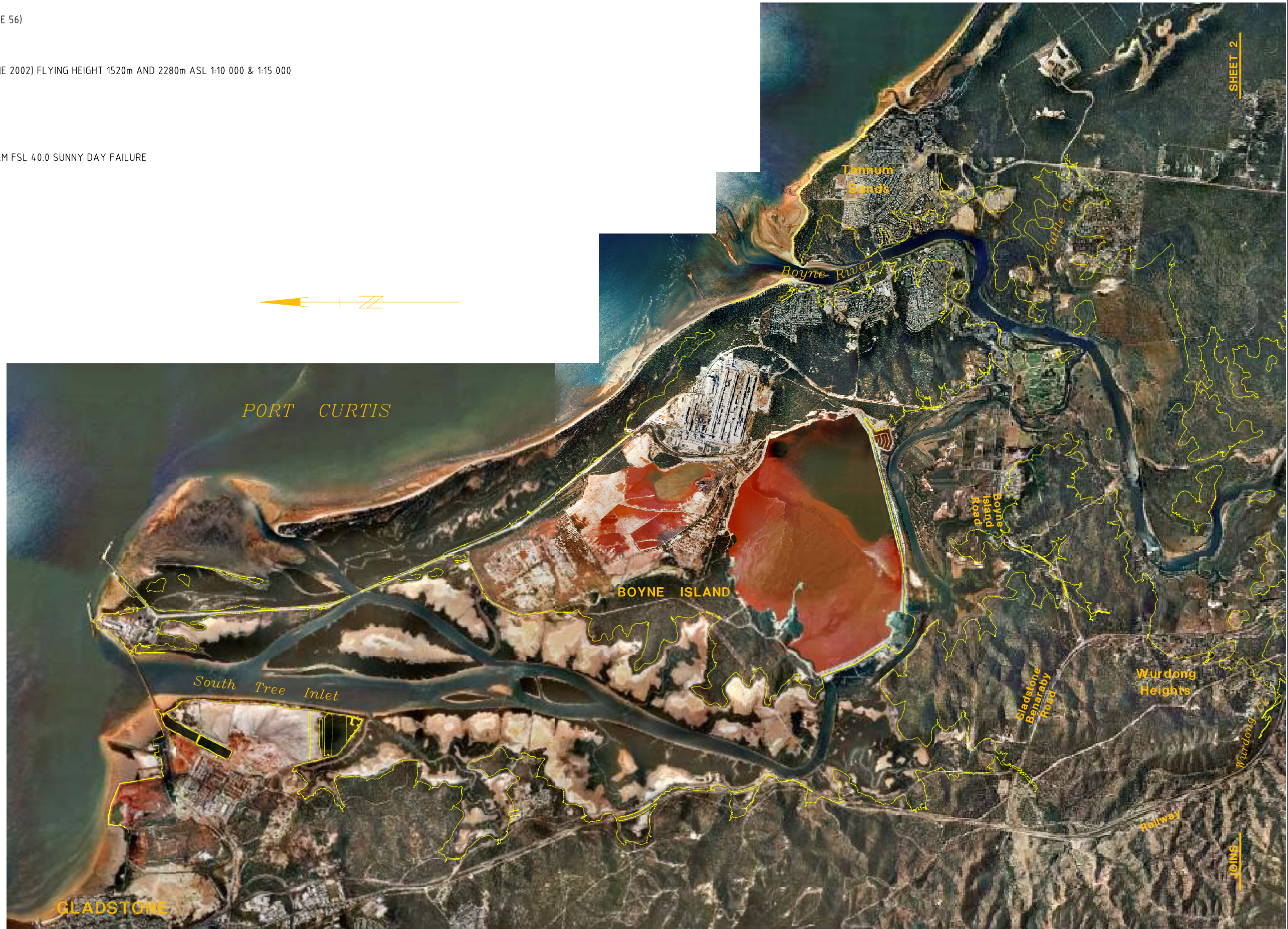
1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000

**LEGEND:**

 AWOONGA DAM FSL 40.0 SUNNY DAY FAILURE

**KEY TO SHEETS:**

1	2
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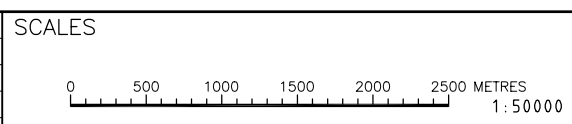
SHEET 2

JOINS

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REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220474	SHEET 2 OF 2



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PROJECT MANAGER			
WATER STUDIES			



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**SUNNY DAY FAILURE - FSL 40.0**  
**MAXIMUM FLOOD LEVELS**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220473</b>
DATE	OCT 2003

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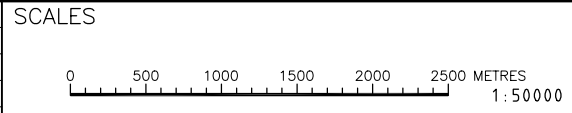
**LEGEND:**

 AWOONGA DAM FSL 40.0 SUNNY DAY FAILURE

**KEY TO SHEETS:**

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REVISION	DATE	REMARKS	CKD	PSD	REFERENCE DRAWINGS
					220473 SHEET 1 OF 2



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PROJECT MANAGER WATER STUDIES			



**AWOONGA DAM**  
 BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY  
 PHOTO MOSAIC  
 SUNNY DAY FAILURE - FSL 40.0  
 MAXIMUM FLOOD LEVELS




CONTRACT NUMBER	
DRAWING NUMBER	<b>220474</b>
DATE	OCT 2003

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**NOTES:**

1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000

**LEGEND:**

-  AWOONGA DAM FSL 40.0 PROBABLE MAXIMUM FLOOD 48 HOUR DURATION WITH EMBANKMENT FAILURE
-  AWOONGA DAM FSL 40.0 PROBABLE MAXIMUM FLOOD 48 HOUR DURATION WITH NO EMBANKMENT FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

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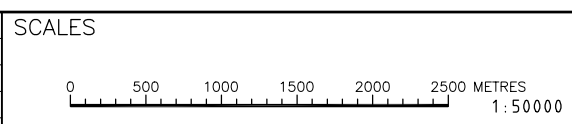


SHEET 2

JOINS

REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220472	SHEET 2 OF 2



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WATER STUDIES			



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**PROBABLE MAXIMUM FLOOD - FSL 40.0**  
**MAXIMUM FLOOD LEVELS**

SH 1 OF 2

CONTRACT NUMBER	
DRAWING NUMBER	<b>220471</b>
DATE	OCT 2003



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No Failure	12hr - PMF No Failure	24hr - PMF No Failure	48hr - PMF No Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00			47.107	50.317	52.036	52.29
2	BOYNERIVER 100.00			47.107	50.315	52.032	52.283
3	BOYNERIVER 100.00			47.107	50.315	52.032	52.283
4	BOYNERIVER 150.00			47.107	50.315	52.032	52.283
5	BOYNERIVER 350.00			17.935	24.255	27.636	28.258
6	BOYNERIVER 420.00			17.935	24.254	27.636	28.258
7	BOYNERIVER 420.00			17.935	24.254	27.636	28.258
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	17.458	23.764	27.125	27.761
9	BOYNERIVER 1383.80	B21.15		17.026	23.094	26.29	26.924
10	BOYNERIVER 1985.90	B20.6		16.386	22.179	25.225	25.871
11	BOYNERIVER 2182.33		Tucker Gully	16.247	22.016	25.021	25.669
12	BOYNERIVER 2182.33			16.247	22.016	25.021	25.669
13	BOYNERIVER 2462.80	B20.1		15.933	21.593	24.525	25.18
14	BOYNERIVER 3120.26		Coomal Ck	15.625	21.216	24.098	24.767
15	BOYNERIVER 3120.26			15.625	21.216	24.098	24.767
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	15.549	21.116	23.987	24.659
17	BOYNERIVER 3976.40	B18.3		15.09	20.559	23.34	24.016
18	BOYNERIVER 4740.10	B17.6		14.095	19.264	21.968	22.68
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	13.84	18.816	21.533	22.263
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	13.84	18.816	21.533	22.263
21	BOYNERIVER 5934.10	B16.7		13.528	18.472	21.241	21.995
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	13.145	17.901	20.776	21.574
23	BOYNERIVER 6676.80	B16.0		13.145	17.901	20.776	21.574
24	BOYNERIVER 7293.40	B15.5		12.826	17.375	20.258	21.077
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	12.375	16.875	19.783	20.615
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	12.375	16.875	19.783	20.615
27	BOYNERIVER 8522.40	B14.35		12.165	16.706	19.658	20.5
28	BOYNERIVER 8856.20	B14.0		12.099	16.662	19.632	20.477
29	BOYNERIVER 9247.40	B13.6		11.954	16.513	19.494	20.341
30	BOYNERIVER 9679.30	B13.2		11.8	16.326	19.31	20.159
31	BOYNERIVER 10080.40	B12.8		11.655	16.209	19.233	20.093
32	BOYNERIVER 10401.00			11.527	16.078	19.104	19.964
33	BOYNERIVER 10402.80			11.554	16.09	19.12	19.984
34	BOYNERIVER 10412.80	B12.5		11.639	16.165	19.189	20.076
35	BOYNERIVER 10414.00			11.526	16.077	19.104	19.965
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	11.443	16.013	19.051	19.915
37	BOYNERIVER 10832.90		Station Ck	11.34	15.91	18.955	19.82
38	BOYNERIVER 10832.90			11.34	15.91	18.955	19.82
39	BOYNERIVER 11254.50	B11.6		10.983	15.295	18.127	18.934
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	10.407	14.337	16.84	17.577
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	10.407	14.337	16.84	17.577
42	BOYNERIVER 12303.00			10.09	13.903	16.289	17.009
43	BOYNERIVER 12303.00		Boyne Trib1	10.09	13.903	16.289	17.009
44	BOYNERIVER 12455.40	B10.5		9.97	13.737	16.069	16.78
45	BOYNERIVER 12785.40		Machine Ck	9.659	13.309	15.526	16.195
46	BOYNERIVER 12785.40			9.659	13.309	15.526	16.195
47	BOYNERIVER 12874.90	B10.2		9.564	13.173	15.356	15.998
48	BOYNERIVER 13251.30	B9.8		9.372	12.974	15.164	15.781
49	BOYNERIVER 13865.90	B9.1		8.879	12.239	14.304	14.883
50	BOYNERIVER 14304.56		Wurdong Ck	8.659	11.934	13.952	14.517
51	BOYNERIVER 14304.56			8.659	11.934	13.952	14.517
52	BOYNERIVER 14472.20	B8.5		8.603	11.854	13.855	14.415
53	BOYNERIVER 14964.20	B8.0		8.357	11.536	13.502	14.054
54	BOYNERIVER 15341.20	B7.55		8.029	11.019	12.874	13.4
55	BOYNERIVER 15741.50	B7.2		7.753	10.64	12.441	12.97
56	BOYNERIVER 16062.90		O'L Boyne D/S	7.622	10.494	12.286	12.812
57	BOYNERIVER 16062.90			7.622	10.494	12.286	12.812
58	BOYNERIVER 16145.40	B6.8		7.589	10.461	12.253	12.779
59	BOYNERIVER 16727.90	B6.2		7.206	9.969	11.684	12.186
60	BOYNERIVER 17358.60	B5.55		6.777	9.458	11.117	11.6
61	BOYNERIVER 17722.19		South Trees	6.28	8.677	10.176	10.615
62	BOYNERIVER 17722.19			6.28	8.677	10.176	10.615
63	BOYNERIVER 17874.50			6.134	8.531	10.063	10.511
64	BOYNERIVER 18184.66		Cattle Ck	5.959	8.409	9.988	10.445
65	BOYNERIVER 18184.66			5.959	8.409	9.988	10.445
66	BOYNERIVER 18476.20	B4.5		5.78	8.18	9.722	10.165
67	BOYNERIVER 18884.20	B4.05		5.449	7.67	9.081	9.475
68	BOYNERIVER 19282.40	B3.65		5.321	7.526	8.946	9.343
69	BOYNERIVER 19869.50	B3.15		5.017	7.143	8.524	8.918
70	BOYNERIVER 20263.70	B2.75		4.71	6.687	7.989	8.354

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No Failure	12hr - PMF No Failure	24hr - PMF No Failure	48hr - PMF No Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
71	BOYNERIVER 20684.60	B2.45		4.383	6.272	7.505	7.865
72	BOYNERIVER 20866.30	B2.25		4.288	6.125	7.373	7.728
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	3.953	5.562	6.676	7.007
74	BOYNERIVER 21471.70	B1.65		3.676	4.976	5.834	6.076
75	BOYNERIVER 21861.20	B1.2		3.488	4.559	5.179	5.364
76	BOYNERIVER 22251.30	B0.9		3.155	3.908	4.116	4.168
77	BOYNERIVER 22636.00	B0.5		2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1		38.018	38.051	38.064	37.74
79	COOMALCK 398.20	C2		33.341	33.375	33.385	33.058
80	COOMALCK 794.20	C3		29.642	29.675	29.684	29.377
81	COOMALCK 1209.50	C4		26.578	27.082	26.636	27.551
82	COOMALCK 1813.30	C5		22.272	21.945	24.098	24.767
83	COOMALCK 2352.80	C6		17.111	21.238	24.099	24.767
84	COOMALCK 3112.20	C7		15.626	21.21	24.099	24.766
85	COOMALCK 3751.30	C8		15.624	21.204	24.099	24.767
86	COOMALCK 4222.50	C9		15.625	21.214	24.098	24.767
87	COOMALCK 4305.00			15.625	21.216	24.098	24.767
88	YUNKACK 0.00	Y1		34.489	34.469	34.713	36.578
89	YUNKACK 574.20	Y2		26.859	26.836	26.994	28.006
90	YUNKACK 948.90	Y3		22.26	22.245	22.403	23.645
91	YUNKACK 1253.10	Y4		19.001	18.989	20.776	21.576
92	YUNKACK 1835.50	Y5		13.145	17.903	20.776	21.574
93	YUNKACK 2434.60	Y6		13.145	17.902	20.776	21.574
94	YUNKACK 2763.00	Y7		13.145	17.901	20.776	21.574
95	TUCKERGULLY 0.00			36.642	36.659	36.799	36.533
96	TUCKERGULLY 1066.80	TU-1		34.565	34.578	34.682	34.484
97	TUCKERGULLY 1965.80	TU-2		29.598	29.607	29.736	29.501
98	TUCKERGULLY 2491.10	TU-3		26.377	26.385	26.512	26.28
99	TUCKERGULLY 3217.50	TU-4		22.046	22.056	25.028	25.67
100	TUCKERGULLY 3966.50	TU-5		18.377	22.034	25.036	25.672
101	TUCKERGULLY 4522.10	TU-6		16.392	22.025	25.025	25.67
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	16.252	22.013	25.022	25.674
103	TUCKERGULLY 5765.40		Tucker Trib	16.25	22.011	25.022	25.67
104	TUCKERGULLY 5765.40			16.25	22.011	25.022	25.67
105	TUCKERGULLY 6350.10	TU-8		16.248	22.014	25.02	25.669
106	TUCKERGULLY 6669.00	TU-9		16.247	22.016	25.021	25.669
107	TUCKERTRIB 0.00			30.815	30.815	30.815	30.815
108	TUCKERTRIB 206.20	T1-1		30.261	30.261	30.261	30.261
109	TUCKERTRIB 730.40	T1-2		27.265	27.265	27.265	27.308
110	TUCKERTRIB 1416.70	T1-3		20.311	22.033	25.04	25.686
111	TUCKERTRIB 1944.80	T1-4		16.26	22.031	25.027	25.673
112	TUCKERTRIB 2331.50	T1-5		16.254	22.025	25.033	25.673
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	16.253	22.014	25.033	25.677
114	TUCKERTRIB 3377.00			16.25	22.011	25.022	25.67
115	STATIONCK 0.00	S1		16.576	16.527	18.979	19.844
116	STATIONCK 684.50	S2		15.244	15.922	18.978	19.844
117	STATIONCK 1599.70	S3		13.599	15.922	18.979	19.844
118	STATIONCK 2431.30	S4		11.341	15.922	18.978	19.844
119	STATIONCK 3013.70	S5		11.341	15.922	18.978	19.844
120	STATIONCK 3734.90	S6	Bruce H'way	11.341	15.922	18.978	19.844
121	STATIONCK 4481.70	S7		11.341	15.922	18.978	19.844
122	STATIONCK 5140.80	S8		11.341	15.922	18.978	19.844
123	STATIONCK 5918.90	S9		11.34	15.921	18.977	19.844
124	STATIONCK 6575.50	S10		11.34	15.921	18.977	19.844
125	STATIONCK 6954.40		O'L Station D/S	11.34	15.921	18.976	19.844
126	STATIONCK 6954.40			11.34	15.921	18.976	19.844
127	STATIONCK 7691.00	S11		11.34	15.91	18.955	19.82
128	MACHINECK 0.00	M1		34.181	34.203	34.288	33.615
129	MACHINECK 726.30	M2		29.298	29.313	29.39	28.714
130	MACHINECK 1186.80	M3		27.084	27.093	27.141	26.615
131	MACHINECK 1699.10	M4		23.586	23.598	23.693	22.924
132	MACHINECK 2214.80	M5		21.151	21.158	21.217	20.809
133	MACHINECK 2730.60	M6		17.541	17.549	17.611	17.122
134	MACHINECK 3140.90	M7		15.53	15.538	15.602	16.195
135	MACHINECK 3611.90	M8		13.25	13.309	15.526	16.195
136	MACHINECK 4246.80	M9	Road/Rail X-ing	11.452	13.309	15.526	16.195
137	MACHINECK 5099.90	M10		9.659	13.309	15.526	16.195
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9.659	13.309	15.526	16.195
139	MACHINECK 6711.00	M12		9.659	13.309	15.526	16.195
140	O'LSATION 0.00			12.375	16.875	19.783	20.615
141	O'LSATION 304.10	O2-1		12.371	16.813	19.725	20.56
142	O'LSATION 1252.20	O2-2		12.313	16.579	19.541	20.385



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No Failure	12hr - PMF No Failure	24hr - PMF No Failure	48hr - PMF No Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
143	O'NSTATION 1924.60	O2-3		11.387	16.263	19.307	20.16
144	O'NSTATION 2385.50			11.352	16.024	19.081	19.942
145	O'NSTATION 2588.00	O2-4	Bruce H'way	11.34	15.921	18.976	19.844
146	WURDONGCK 0.00	W1		26.604	26.598	26.761	27.313
147	WURDONGCK 616.40	W2		21.383	21.39	21.557	22.025
148	WURDONGCK 1311.60	W3		16.266	16.239	16.472	17.003
149	WURDONGCK 1752.90	W4		13.748	13.739	13.96	14.556
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	8.659	11.934	13.952	14.517
151	WURDONGCK 3446.50	W6		8.659	11.934	13.952	14.517
152	WURDONGCK 4664.00	W7		8.659	11.934	13.952	14.517
153	BOYNETRIB1 0.00	T2-1		24.036	24.036	24.036	24.036
154	BOYNETRIB1 573.10	T2-2		16.242	16.242	16.293	17.013
155	BOYNETRIB1 1368.30	T2-3		10.418	13.903	16.289	17.009
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	10.163	13.903	16.289	17.009
157	BOYNETRIB1 2194.80	T2-5		10.09	13.903	16.289	17.008
158	BOYNETRIB1 2663.00	T2-6		10.09	13.903	16.289	17.009
159	BOYNETRIB2 0.00	T3-1		18.325	18.325	18.325	18.325
160	BOYNETRIB2 381.20	T3-2		14.526	14.526	16.847	17.581
161	BOYNETRIB2 713.60	T3-3		10.415	14.337	16.84	17.577
162	BOYNETRIB2 1247.10	T3-4		10.407	14.337	16.84	17.578
163	BOYNETRIB2 1804.00	T3-5		10.407	14.337	16.84	17.577
164	O'LANDBOYNE 0.00			10.407	14.337	16.84	17.577
165	O'LANDBOYNE 462.10	O3-1		8.816	12.399	14.448	15.024
166	O'LANDBOYNE 843.90	O3-2		8.186	11.536	13.511	14.055
167	O'LANDBOYNE 1492.50	O3-3		7.695	10.598	12.461	12.989
168	O'LANDBOYNE 1924.31		O'Land01 U/S	7.643	10.495	12.287	12.812
169	O'LANDBOYNE 1924.31			7.643	10.495	12.287	12.812
170	O'LANDBOYNE 2032.00	O3-4		7.622	10.494	12.286	12.812
171	O'LAND01 0.00			7.643	10.495	12.287	12.812
172	O'LAND01 415.30	O4-01		7.622	10.241	11.904	12.401
173	O'LAND01 1018.80	O4-02		7.546	9.752	11.363	11.864
174	O'LAND01 1360.20	O4-03		6.899	9.306	11.065	11.59
175	O'LAND01 1988.30	O4-04		6.112	8.9	10.762	11.301
176	O'LAND01 2586.50	O4-05		5.971	8.74	10.605	11.144
177	O'LAND01 3091.00	O4-06		5.962	8.522	10.264	10.776
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	7.945	8.522	10.264	10.776
179	CATTLECK 743.60	CC2		6.096	8.522	10.264	10.776
180	CATTLECK 1293.10	CC3		5.962	8.522	10.264	10.776
181	CATTLECK 1994.43		O'Land 01 D/S	5.962	8.522	10.264	10.776
182	CATTLECK 1994.43			5.962	8.522	10.264	10.776
183	CATTLECK 2124.80	CC4		5.961	8.471	10.133	10.621
184	CATTLECK 2335.00			5.959	8.409	9.988	10.445
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	6.28	8.677	10.176	10.615
186	STHTREES 851.80	ST2		4.968	7.372	9.058	9.561
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	4.575	7.03	8.767	9.282
188	STHTREES 2361.30	ST4		4.228	6.759	8.537	9.061
189	STHTREES 2829.50	ST5		4.124	6.67	8.461	8.987
190	STHTREES 3773.50	ST6		3.955	6.521	8.319	8.845
191	STHTREES 4171.60	ST7		3.886	6.45	8.24	8.763
192	STHTREES 4595.40	ST8		3.778	6.321	8.09	8.605
193	STHTREES 5122.39		Ten Mile Ck	3.652	6.141	7.869	8.375
194	STHTREES 5122.39			3.652	6.141	7.869	8.375
195	STHTREES 5493.40	ST9		3.584	6.013	7.707	8.2
196	STHTREES 6390.90	ST10		3.144	5.13	6.636	7.071
197	STHTREES 7658.80	ST11		2.801	4.2	5.399	5.785
198	STHTREES 8251.05		Eleven Mile Ck	2.771	4.116	5.281	5.658
199	STHTREES 8251.05			2.771	4.116	5.281	5.658
200	STHTREES 9287.10	ST12		2.709	3.903	4.986	5.34
201	STHTREES 11258.10	ST13		2.593	3.425	4.327	4.633
202	STHTREES 12688.10	ST14		2.519	3.075	3.802	4.062
203	STHTREES 14444.90	ST15		2.474	2.817	3.349	3.553
204	STHTREES 17478.00	ST16		2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	10.472	10.477	10.602	10.371
206	TENMILECK 510.20	T4-2		4.944	6.142	7.869	8.375
207	TENMILECK 1040.50	T4-3		3.652	6.141	7.869	8.375
208	TENMILECK 1753.90	T4-4		3.652	6.141	7.869	8.375
209	TENMILECK 2298.00	T4-5		3.652	6.141	7.869	8.375
210	ELEVENMILECK 0.00	T5-1		13.072	13.083	13.129	12.456
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	5.735	5.761	5.874	5.66
212	ELEVENMILECK 1811.40	T5-3		2.771	4.116	5.281	5.658
213	ELEVENMILECK 3118.20	T5-4		2.771	4.116	5.281	5.658
214	ELEVENMILECK 3887.00			2.771	4.116	5.281	5.658

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL40

PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr &amp; 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No Failure	12hr - PMF No Failure	24hr - PMF No Failure	48hr - PMF No Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
215	LITTLEOAKYCK 0.00	O1-1A		17.66	18.817	21.533	22.263
216	LITTLEOAKYCK 670.00	O1-2A		13.84	18.817	21.533	22.263
217	LITTLEOAKYCK 1834.00	O1-3A		13.84	18.817	21.533	22.263
218	LITTLEOAKYCK 1958.00			13.84	18.816	21.533	22.263
219	SPILLWAY 0.00			47.107	50.315	52.032	52.283
220	SPILLWAY 300.00			17.935	24.254	27.636	28.258

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00			39.955	47.107	50.317	52.036	52.29
2	BOYNERIVER 100.00			39.941	47.107	50.315	52.032	52.283
3	BOYNERIVER 100.00			39.941	47.107	50.315	52.032	52.283
4	BOYNERIVER 150.00			39.946	47.107	50.315	52.032	52.283
5	BOYNERIVER 350.00			35.26	41.394	44.031	45.542	45.983
6	BOYNERIVER 420.00			39.523	41.374	44.059	45.616	46.05
7	BOYNERIVER 420.00			39.523	41.374	44.059	45.616	46.05
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	34.573	40.96	43.781	45.423	45.871
9	BOYNERIVER 1383.80	B21.15		32.782	38.856	41.522	43.067	43.52
10	BOYNERIVER 1985.90	B20.6		30.384	36.457	38.934	40.362	40.816
11	BOYNERIVER 2182.33		Tucker Gully	30.101	36.081	38.564	40.011	40.476
12	BOYNERIVER 2182.33			30.101	36.081	38.564	40.011	40.476
13	BOYNERIVER 2462.80	B20.1		29.368	35.001	37.419	38.853	39.313
14	BOYNERIVER 3120.26		Coomal Ck	28.822	34.423	36.911	38.403	38.89
15	BOYNERIVER 3120.26			28.822	34.423	36.911	38.403	38.89
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	28.664	34.23	36.72	38.216	38.708
17	BOYNERIVER 3976.40	B18.3		27.592	32.727	35.096	36.566	37.061
18	BOYNERIVER 4740.10	B17.6		25.192	29.557	32.153	33.832	34.476
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	24.337	29.009	31.784	33.533	34.192
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	24.337	29.009	31.784	33.533	34.192
21	BOYNERIVER 5934.10	B16.7		23.846	28.798	31.634	33.414	34.08
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	23.222	28.419	31.3	33.1	33.773
23	BOYNERIVER 6676.80	B16.0		23.222	28.419	31.3	33.1	33.773
24	BOYNERIVER 7293.40	B15.5		22.475	27.959	30.904	32.736	33.42
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	21.974	27.471	30.446	32.3	32.993
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	21.974	27.471	30.446	32.3	32.993
27	BOYNERIVER 8522.40	B14.35		21.861	27.399	30.385	32.243	32.938
28	BOYNERIVER 8856.20	B14.0		21.84	27.385	30.374	32.233	32.93
29	BOYNERIVER 9247.40	B13.6		21.691	27.234	30.215	32.067	32.761
30	BOYNERIVER 9679.30	B13.2		21.487	27.032	30.007	31.856	32.548
31	BOYNERIVER 10080.40	B12.8		21.43	27.029	30.025	31.885	32.582
32	BOYNERIVER 10401.00			21.285	26.873	29.854	31.706	32.398
33	BOYNERIVER 10402.80			21.262	27.001	29.92	31.728	32.411
34	BOYNERIVER 10412.80	B12.5		21.283	27.018	29.949	31.748	32.482
35	BOYNERIVER 10414.00			21.281	26.879	29.854	31.706	32.396
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	21.234	26.841	29.826	31.678	32.37
37	BOYNERIVER 10832.90		Station Ck	21.128	26.738	29.715	31.562	32.252
38	BOYNERIVER 10832.90			21.128	26.738	29.715	31.562	32.252
39	BOYNERIVER 11254.50	B11.6		20.081	25.231	27.921	29.579	30.199
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	18.531	23.123	25.48	26.923	27.464
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	18.531	23.123	25.48	26.923	27.464
42	BOYNERIVER 12303.00			17.927	22.335	24.575	25.943	26.456
43	BOYNERIVER 12303.00		Boyne Trib1	17.927	22.335	24.575	25.943	26.456
44	BOYNERIVER 12455.40	B10.5		17.679	22.005	24.19	25.519	26.018
45	BOYNERIVER 12785.40		Machine Ck	17.052	21.258	23.373	24.657	25.141
46	BOYNERIVER 12785.40			17.052	21.258	23.373	24.657	25.141
47	BOYNERIVER 12874.90	B10.2		16.836	20.972	23.04	24.302	24.778
48	BOYNERIVER 13251.30	B9.8		16.596	20.796	22.892	24.17	24.654
49	BOYNERIVER 13865.90	B9.1		15.561	19.508	21.411	22.563	22.999
50	BOYNERIVER 14304.56		Wurdong Ck	15.159	18.936	20.761	21.86	22.277
51	BOYNERIVER 14304.56			15.159	18.936	20.761	21.86	22.277
52	BOYNERIVER 14472.20	B8.5		15.046	18.761	20.557	21.638	22.047
53	BOYNERIVER 14964.20	B8.0		14.664	18.303	20.1	21.188	21.603
54	BOYNERIVER 15341.20	B7.55		13.956	17.374	19.065	20.084	20.473
55	BOYNERIVER 15741.50	B7.2		13.511	16.853	18.584	19.639	20.044
56	BOYNERIVER 16062.90		O'L Boyne D/S	13.34	16.594	18.316	19.369	19.772
57	BOYNERIVER 16062.90			13.34	16.594	18.316	19.369	19.772
58	BOYNERIVER 16145.40	B6.8		13.305	16.547	18.27	19.324	19.727
59	BOYNERIVER 16727.90	B6.2		12.646	15.688	17.318	18.316	18.699
60	BOYNERIVER 17358.60	B5.55		12.033	14.949	16.522	17.49	17.863
61	BOYNERIVER 17722.19		South Trees	10.997	13.69	15.153	16.058	16.408
62	BOYNERIVER 17722.19			10.997	13.69	15.153	16.058	16.408
63	BOYNERIVER 17874.50			10.906	13.653	15.134	16.047	16.399
64	BOYNERIVER 18184.66		Cattle Ck	10.852	13.634	15.125	16.042	16.395
65	BOYNERIVER 18184.66			10.852	13.634	15.125	16.042	16.395
66	BOYNERIVER 18476.20	B4.5		10.558	13.259	14.692	15.574	15.913
67	BOYNERIVER 18884.20	B4.05		9.826	12.205	13.411	14.153	14.441
68	BOYNERIVER 19282.40	B3.65		9.698	12.127	13.369	14.139	14.437
69	BOYNERIVER 19869.50	B3.15		9.276	11.706	12.957	13.735	14.038
70	BOYNERIVER 20263.70	B2.75		8.688	10.957	12.093	12.8	13.076

Table3.2

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
71	BOYNERIVER 20684.60	B2.45		8.196	10.446	11.646	12.386	12.676
72	BOYNERIVER 20866.30	B2.25		8.056	10.299	11.451	12.167	12.447
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	7.314	9.424	10.55	11.248	11.521
74	BOYNERIVER 21471.70	B1.65		6.31	8.078	9.147	9.819	10.084
75	BOYNERIVER 21861.20	B1.2		5.56	6.953	7.731	8.198	8.379
76	BOYNERIVER 22251.30	B0.9		4.298	5.242	5.759	6.063	6.181
77	BOYNERIVER 22636.00	B0.5		2.42	2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1		36.107	38.018	38.051	38.419	38.903
79	COOMALCK 398.20	C2		31.775	34.436	36.927	38.416	38.903
80	COOMALCK 794.20	C3		28.833	34.432	36.921	38.413	38.9
81	COOMALCK 1209.50	C4		28.823	34.429	36.918	38.414	38.895
82	COOMALCK 1813.30	C5		28.821	34.425	36.912	38.41	38.891
83	COOMALCK 2352.80	C6		28.823	34.425	36.912	38.408	38.892
84	COOMALCK 3112.20	C7		28.822	34.425	36.911	38.404	38.892
85	COOMALCK 3751.30	C8		28.822	34.424	36.911	38.404	38.891
86	COOMALCK 4222.50	C9		28.822	34.423	36.911	38.403	38.89
87	COOMALCK 4305.00			28.822	34.423	36.911	38.403	38.89
88	YUNKACK 0.00	Y1		32.887	34.489	34.469	34.713	36.578
89	YUNKACK 574.20	Y2		25.41	28.42	31.3	33.101	33.772
90	YUNKACK 948.90	Y3		23.222	28.42	31.3	33.101	33.778
91	YUNKACK 1253.10	Y4		23.222	28.419	31.3	33.1	33.778
92	YUNKACK 1835.50	Y5		23.222	28.419	31.3	33.1	33.775
93	YUNKACK 2434.60	Y6		23.222	28.419	31.3	33.1	33.773
94	YUNKACK 2763.00	Y7		23.222	28.419	31.3	33.1	33.773
95	TUCKERGULLY 0.00			32.035	36.642	38.581	40.089	40.514
96	TUCKERGULLY 1066.80	TU-1		30.975	36.116	38.58	40.066	40.535
97	TUCKERGULLY 1965.80	TU-2		30.119	36.104	38.579	40.07	40.509
98	TUCKERGULLY 2491.10	TU-3		30.11	36.099	38.584	40.058	40.503
99	TUCKERGULLY 3217.50	TU-4		30.107	36.093	38.582	40.042	40.497
100	TUCKERGULLY 3966.50	TU-5		30.106	36.09	38.574	40.033	40.49
101	TUCKERGULLY 4522.10	TU-6		30.104	36.088	38.568	40.025	40.477
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	30.103	36.085	38.567	40.019	40.482
103	TUCKERGULLY 5765.40		Tucker Trib	30.103	36.085	38.568	40.018	40.482
104	TUCKERGULLY 5765.40			30.103	36.085	38.568	40.018	40.482
105	TUCKERGULLY 6350.10	TU-8		30.101	36.082	38.565	40.014	40.478
106	TUCKERGULLY 6669.00	TU-9		30.101	36.081	38.564	40.011	40.476
107	TUCKERTRIB 0.00			30.816	36.102	38.588	40.022	40.499
108	TUCKERTRIB 206.20	T1-1		30.296	36.101	38.586	40.023	40.5
109	TUCKERTRIB 730.40	T1-2		30.104	36.095	38.578	40.025	40.502
110	TUCKERTRIB 1416.70	T1-3		30.105	36.092	38.571	40.025	40.495
111	TUCKERTRIB 1944.80	T1-4		30.105	36.087	38.572	40.024	40.483
112	TUCKERTRIB 2331.50	T1-5		30.103	36.087	38.573	40.024	40.479
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	30.105	36.085	38.57	40.018	40.488
114	TUCKERTRIB 3377.00			30.103	36.085	38.568	40.018	40.482
115	STATIONCK 0.00	S1		21.167	26.78	29.757	31.602	32.292
116	STATIONCK 684.50	S2		21.167	26.78	29.756	31.602	32.291
117	STATIONCK 1599.70	S3		21.166	26.779	29.756	31.602	32.289
118	STATIONCK 2431.30	S4		21.165	26.779	29.755	31.601	32.289
119	STATIONCK 3013.70	S5		21.164	26.778	29.754	31.601	32.291
120	STATIONCK 3734.90	S6	Bruce H'way	21.162	26.777	29.754	31.6	32.29
121	STATIONCK 4481.70	S7		21.161	26.776	29.753	31.598	32.288
122	STATIONCK 5140.80	S8		21.16	26.775	29.752	31.597	32.286
123	STATIONCK 5918.90	S9		21.159	26.774	29.751	31.596	32.285
124	STATIONCK 6575.50	S10		21.157	26.772	29.749	31.595	32.284
125	STATIONCK 6954.40		O'L Station D/S	21.155	26.771	29.748	31.594	32.283
126	STATIONCK 6954.40			21.155	26.771	29.748	31.594	32.283
127	STATIONCK 7691.00	S11		21.128	26.738	29.715	31.562	32.252
128	MACHINECK 0.00	M1		31.43	34.181	34.203	34.288	33.615
129	MACHINECK 726.30	M2		26.712	29.298	29.313	29.39	28.714
130	MACHINECK 1186.80	M3		25.603	27.084	27.093	27.141	26.615
131	MACHINECK 1699.10	M4		21.705	23.586	23.598	24.66	25.144
132	MACHINECK 2214.80	M5		18.623	21.262	23.376	24.66	25.144
133	MACHINECK 2730.60	M6		17.063	21.261	23.375	24.66	25.143
134	MACHINECK 3140.90	M7		17.052	21.261	23.375	24.659	25.143
135	MACHINECK 3611.90	M8		17.054	21.261	23.375	24.659	25.143
136	MACHINECK 4246.80	M9	Road/Rail X-ing	17.056	21.26	23.374	24.659	25.142
137	MACHINECK 5099.90	M10		17.054	21.26	23.374	24.658	25.142
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	17.053	21.259	23.373	24.658	25.141
139	MACHINECK 6711.00	M12		17.052	21.258	23.373	24.657	25.141
140	O'LSATION 0.00			21.974	27.471	30.446	32.3	32.993
141	O'LSATION 304.10	O2-1		21.917	27.427	30.406	32.263	32.957
142	O'LSATION 1252.20	O2-2		21.738	27.287	30.274	32.134	32.83

Table3.2

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
143	O'LSTATION 1924.60	O2-3		21.495	27.063	30.043	31.892	32.584
144	O'LSTATION 2385.50			21.259	26.852	29.826	31.671	32.36
145	O'LSTATION 2588.00	O2-4	Bruce H'way	21.155	26.771	29.748	31.594	32.283
146	WURDONGCK 0.00	W1		24.648	26.604	26.598	26.761	27.313
147	WURDONGCK 616.40	W2		20.003	21.383	21.39	21.863	22.279
148	WURDONGCK 1311.60	W3		15.155	18.938	20.762	21.862	22.279
149	WURDONGCK 1752.90	W4		15.159	18.937	20.762	21.862	22.278
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	15.161	18.937	20.762	21.862	22.278
151	WURDONGCK 3446.50	W6		15.16	18.937	20.762	21.861	22.278
152	WURDONGCK 4664.00	W7		15.159	18.936	20.761	21.86	22.277
153	BOYNETRIB1 0.00	T2-1		24.039	24.036	24.576	25.943	26.456
154	BOYNETRIB1 573.10	T2-2		17.928	22.336	24.576	25.943	26.456
155	BOYNETRIB1 1368.30	T2-3		17.928	22.335	24.576	25.943	26.456
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	17.928	22.335	24.576	25.943	26.456
157	BOYNETRIB1 2194.80	T2-5		17.928	22.335	24.576	25.943	26.456
158	BOYNETRIB1 2663.00	T2-6		17.927	22.335	24.575	25.943	26.456
159	BOYNETRIB2 0.00	T3-1		18.536	23.123	25.48	26.923	27.467
160	BOYNETRIB2 381.20	T3-2		18.532	23.124	25.48	26.923	27.466
161	BOYNETRIB2 713.60	T3-3		18.531	23.124	25.48	26.923	27.466
162	BOYNETRIB2 1247.10	T3-4		18.531	23.123	25.48	26.923	27.465
163	BOYNETRIB2 1804.00	T3-5		18.531	23.123	25.48	26.923	27.464
164	O'LANDBOYNE 0.00			18.531	23.123	25.48	26.923	27.464
165	O'LANDBOYNE 462.10	O3-1		15.732	19.146	20.951	22.075	22.503
166	O'LANDBOYNE 843.90	O3-2		14.688	17.768	19.391	20.381	20.756
167	O'LANDBOYNE 1492.50	O3-3		13.535	16.724	18.423	19.465	19.865
168	O'LANDBOYNE 1924.31		O'Land01 U/S	13.34	16.594	18.316	19.369	19.772
169	O'LANDBOYNE 1924.31			13.34	16.594	18.316	19.369	19.772
170	O'LANDBOYNE 2032.00	O3-4		13.34	16.594	18.316	19.369	19.772
171	O'LAND01 0.00			13.34	16.594	18.316	19.369	19.772
172	O'LAND01 415.30	O4-01		12.875	15.994	17.646	18.655	19.043
173	O'LAND01 1018.80	O4-02		12.335	15.468	17.114	18.117	18.502
174	O'LAND01 1360.20	O4-03		12.078	15.254	16.905	17.909	18.295
175	O'LAND01 1988.30	O4-04		11.798	14.979	16.618	17.612	17.994
176	O'LAND01 2586.50	O4-05		11.638	14.796	16.416	17.397	17.775
177	O'LAND01 3091.00	O4-06		11.244	14.32	15.882	16.821	17.183
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	11.245	14.321	15.882	16.822	17.184
179	CATTLECK 743.60	CC2		11.244	14.321	15.882	16.822	17.184
180	CATTLECK 1293.10	CC3		11.244	14.32	15.882	16.821	17.184
181	CATTLECK 1994.43		O'Land 01 D/S	11.244	14.32	15.882	16.821	17.183
182	CATTLECK 1994.43			11.244	14.32	15.882	16.821	17.183
183	CATTLECK 2124.80	CC4		11.061	14.012	15.553	16.48	16.835
184	CATTLECK 2335.00			10.852	13.634	15.125	16.042	16.395
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	10.997	13.69	15.153	16.058	16.408
186	STHTREES 851.80	ST2		9.912	12.834	14.351	15.277	15.634
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9.613	12.579	14.101	15.027	15.383
188	STHTREES 2361.30	ST4		9.373	12.368	13.887	14.811	15.166
189	STHTREES 2829.50	ST5		9.294	12.306	13.831	14.758	15.115
190	STHTREES 3773.50	ST6		9.154	12.146	13.661	14.581	14.935
191	STHTREES 4171.60	ST7		9.071	12.031	13.524	14.43	14.778
192	STHTREES 4595.40	ST8		8.908	11.808	13.268	14.151	14.491
193	STHTREES 5122.39		Ten Mile Ck	8.672	11.506	12.948	13.823	14.161
194	STHTREES 5122.39			8.672	11.506	12.948	13.823	14.161
195	STHTREES 5493.40	ST9		8.487	11.231	12.623	13.466	13.791
196	STHTREES 6390.90	ST10		7.309	9.692	10.891	11.619	11.899
197	STHTREES 7658.80	ST11		5.922	8.049	9.127	9.773	10.02
198	STHTREES 8251.05		Eleven Mile Ck	5.782	7.862	8.909	9.535	9.775
199	STHTREES 8251.05			5.782	7.862	8.909	9.535	9.775
200	STHTREES 9287.10	ST12		5.452	7.39	8.364	8.942	9.163
201	STHTREES 11258.10	ST13		4.73	6.359	7.175	7.659	7.843
202	STHTREES 12688.10	ST14		4.139	5.491	6.179	6.58	6.731
203	STHTREES 14444.90	ST15		3.609	4.693	5.213	5.483	5.575
204	STHTREES 17478.00	ST16		2.42	2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	8.753	11.507	12.949	13.824	14.161
206	TENMILECK 510.20	T4-2		8.672	11.507	12.949	13.824	14.161
207	TENMILECK 1040.50	T4-3		8.672	11.507	12.949	13.824	14.161
208	TENMILECK 1753.90	T4-4		8.672	11.506	12.948	13.824	14.161
209	TENMILECK 2298.00	T4-5		8.672	11.506	12.948	13.823	14.161
210	ELEVENMILECK 0.00	T5-1		11.256	13.072	13.083	13.129	12.456
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	5.814	7.863	8.91	9.536	9.776
212	ELEVENMILECK 1811.40	T5-3		5.783	7.863	8.91	9.536	9.775
213	ELEVENMILECK 3118.20	T5-4		5.783	7.863	8.909	9.536	9.775
214	ELEVENMILECK 3887.00			5.782	7.862	8.909	9.535	9.775

Table3.2

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL40

PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr &amp; 48hr

No	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
215	LITTLEOAKYCK 0.00	O1-1A		24.338	29.009	31.784	33.533	34.189
216	LITTLEOAKYCK 670.00	O1-2A		24.339	29.009	31.784	33.533	34.186
217	LITTLEOAKYCK 1834.00	O1-3A		24.337	29.009	31.784	33.533	34.193
218	LITTLEOAKYCK 1958.00			24.337	29.009	31.784	33.533	34.192
219	SPILLWAY 0.00			39.941	47.107	50.315	52.032	52.283
220	SPILLWAY 300.00			39.523	41.374	44.059	45.616	46.05

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

### Sunny Day Failure

No	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	39.955	9/01/2003 11:41	2:30:00	0.5	0
2	BOYNERIVER 100.00			9/01/2003 9:11	39.941	9/01/2003 9:11	0:00:00	48781.973	3.08
3	BOYNERIVER 100.00			9/01/2003 9:11	39.941	9/01/2003 9:11	0:00:00	43190.023	2.727
4	BOYNERIVER 150.00			9/01/2003 9:11	39.946	9/01/2003 10:26	1:15:00	42647.512	4.331
5	BOYNERIVER 350.00			9/01/2003 9:11	35.26	9/01/2003 14:11	5:00:00	120642.766	3421.213
6	BOYNERIVER 420.00			9/01/2003 9:11	39.523	9/01/2003 11:41	2:30:00	155137.813	18.385
7	BOYNERIVER 420.00			9/01/2003 9:11	39.523	9/01/2003 11:41	2:30:00	76065.094	9.014
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	34.573	9/01/2003 14:11	5:00:00	51261.121	4.06
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	32.782	9/01/2003 14:11	5:00:00	41259.633	9.974
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	30.384	9/01/2003 15:26	6:15:00	36235.625	5.627
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	30.101	9/01/2003 15:26	6:15:00	36167.797	5.086
12	BOYNERIVER 2182.33			9/01/2003 9:11	30.101	9/01/2003 15:26	6:15:00	32177.178	4.525
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	29.368	9/01/2003 15:26	6:15:00	32054.412	4.743
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	28.822	9/01/2003 15:26	6:15:00	31526.301	2.609
15	BOYNERIVER 3120.26			9/01/2003 9:11	28.822	9/01/2003 15:26	6:15:00	29172.418	2.414
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	28.664	9/01/2003 15:26	6:15:00	28941.012	2.365
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	27.592	9/01/2003 15:26	6:15:00	28540.824	3.465
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	25.192	9/01/2003 15:26	6:15:00	28573.377	5.576
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	24.337	9/01/2003 15:26	6:15:00	28547.145	3.141
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	24.337	9/01/2003 15:26	6:15:00	28226.965	2.525
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	23.846	9/01/2003 15:26	6:15:00	28166.074	2.478
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	27992.381	2.277
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	27704.512	2.006
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	22.475	9/01/2003 17:56	8:45:00	27524.191	3.062
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	21.974	9/01/2003 17:56	8:45:00	27241.072	2.897
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	21.974	9/01/2003 17:56	8:45:00	18201.291	2.423
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	21.861	9/01/2003 17:56	8:45:00	18000.047	2.268
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	21.84	9/01/2003 17:56	8:45:00	17836.465	1.366
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	21.691	9/01/2003 17:56	8:45:00	17670.396	2.708
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	21.487	9/01/2003 17:56	8:45:00	17559.762	3.211
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	21.43	9/01/2003 17:56	8:45:00	17415.803	2.57
32	BOYNERIVER 10401.00			9/01/2003 9:11	21.285	9/01/2003 17:56	8:45:00	17212.662	2.986
33	BOYNERIVER 10402.80			9/01/2003 9:11	21.262	9/01/2003 17:56	8:45:00	17213.355	2.989
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	21.283	9/01/2003 17:56	8:45:00	17232.836	2.999
35	BOYNERIVER 10414.00			9/01/2003 9:11	21.281	9/01/2003 17:56	8:45:00	17234.008	2.998
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	21.234	9/01/2003 17:56	8:45:00	17153.307	2.798
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	21.128	9/01/2003 17:56	8:45:00	17088.494	3.427
38	BOYNERIVER 10832.90			9/01/2003 9:11	21.128	9/01/2003 17:56	8:45:00	18613.18	2.898
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	20.081	9/01/2003 17:56	8:45:00	18607.949	4.374
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	18.531	9/01/2003 19:11	10:00:00	18594.803	4.535
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	18.531	9/01/2003 19:11	10:00:00	12559.385	3.183
42	BOYNERIVER 12303.00			9/01/2003 9:11	17.927	9/01/2003 19:11	10:00:00	12546.072	3.35
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	17.927	9/01/2003 19:11	10:00:00	12392.345	3.226
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	17.679	9/01/2003 19:11	10:00:00	12387.794	3.362
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	17.052	9/01/2003 19:11	10:00:00	12377.302	3.73
46	BOYNERIVER 12785.40			9/01/2003 9:11	17.052	9/01/2003 19:11	10:00:00	12006.414	3.42
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	16.836	9/01/2003 19:11	10:00:00	12003.369	3.539
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	16.596	9/01/2003 19:11	10:00:00	11985.938	2.37
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	15.561	9/01/2003 19:11	10:00:00	11950.345	3.582
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	15.159	9/01/2003 19:11	10:00:00	11939.531	2.72
51	BOYNERIVER 14304.56			9/01/2003 9:11	15.159	9/01/2003 19:11	10:00:00	11827.625	2.608
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	15.046	9/01/2003 19:11	10:00:00	11825.884	2.393
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	14.664	9/01/2003 19:11	10:00:00	11818.339	2.083
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	13.956	9/01/2003 19:11	10:00:00	11811.608	3.037
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	13.511	9/01/2003 19:11	10:00:00	11803.282	2.227
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	13.34	9/01/2003 19:11	10:00:00	11794.183	1.552
57	BOYNERIVER 16062.90			9/01/2003 9:11	13.34	9/01/2003 19:11	10:00:00	12185.961	1.63
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	13.305	9/01/2003 19:11	10:00:00	12183.307	1.519
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	12.646	9/01/2003 19:11	10:00:00	12169.039	2.867
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	12.033	9/01/2003 20:26	11:15:00	12157.844	2.985
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	10.997	9/01/2003 20:26	11:15:00	12150.489	4.995
62	BOYNERIVER 17722.19			9/01/2003 9:11	10.997	9/01/2003 20:26	11:15:00	4761.365	2.472
63	BOYNERIVER 17874.50			9/01/2003 9:11	10.906	9/01/2003 20:26	11:15:00	4745.751	2.824
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	10.852	9/01/2003 20:26	11:15:00	4711.078	2.554
65	BOYNERIVER 18184.66			9/01/2003 9:11	10.852	9/01/2003 20:26	11:15:00	9222.978	3.568
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	10.558	9/01/2003 20:26	11:15:00	9224.065	3.06
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	9.826	9/01/2003 20:26	11:15:00	9225.308	3.465
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	9.698	9/01/2003 20:26	11:15:00	9226.622	2.077
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	9.276	9/01/2003 20:26	11:15:00	9229.627	1.902
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	8.688	9/01/2003 20:26	11:15:00	9231.401	2.71

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

### Sunny Day Failure

No	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	8.196	9/01/2003 20:26	11:15:00	9232.765	2.311
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	8.056	9/01/2003 20:26	11:15:00	9233.453	1.979
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	7.314	9/01/2003 20:26	11:15:00	9234.722	2.977
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	6.31	9/01/2003 20:26	11:15:00	9235.041	4.844
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	5.56	9/01/2003 20:26	11:15:00	9235.5	2.866
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	4.298	9/01/2003 20:26	11:15:00	9235.996	2.946
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	9236.203	7.715
78	COOMALCK 0.00	C1		9/01/2003 9:11	36.107	9/01/2003 15:26	6:15:00	6	0.678
79	COOMALCK 398.20	C2		9/01/2003 9:11	31.775	9/01/2003 19:11	10:00:00	6.394	0.662
80	COOMALCK 794.20	C3		9/01/2003 9:11	28.833	9/01/2003 15:26	6:15:00	11.594	1.182
81	COOMALCK 1209.50	C4		9/01/2003 9:11	28.823	9/01/2003 15:26	6:15:00	15.85	0.638
82	COOMALCK 1813.30	C5		9/01/2003 9:11	28.821	9/01/2003 15:26	6:15:00	33.317	1.829
83	COOMALCK 2352.80	C6		9/01/2003 9:11	28.823	9/01/2003 15:26	6:15:00	102.149	0.455
84	COOMALCK 3112.20	C7		9/01/2003 9:11	28.822	9/01/2003 15:26	6:15:00	255.139	2.02
85	COOMALCK 3751.30	C8		9/01/2003 9:11	28.822	9/01/2003 15:26	6:15:00	406.189	0.375
86	COOMALCK 4222.50	C9		9/01/2003 9:11	28.822	9/01/2003 15:26	6:15:00	494.473	1.595
87	COOMALCK 4305.00			9/01/2003 9:11	28.822	9/01/2003 15:26	6:15:00	502.056	2.99
88	YUNKACK 0.00	Y1		9/01/2003 9:11	32.887	9/01/2003 20:26	11:15:00	3.5	0.471
89	YUNKACK 574.20	Y2		9/01/2003 9:11	25.41	9/01/2003 22:56	13:45:00	3.537	0.764
90	YUNKACK 948.90	Y3		9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	6.678	0.52
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	16.633	2.246
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	68.792	0.553
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	193.571	0.425
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	23.222	9/01/2003 16:41	7:30:00	273.623	4.391
95	TUCKERGULLY 0.00			9/01/2003 9:11	32.035	9/01/2003 21:41	12:30:00	2.5	0.22
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	30.975	9/01/2003 21:41	12:30:00	3.021	0.934
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	30.119	9/01/2003 15:26	6:15:00	18.892	0.707
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	30.11	9/01/2003 15:26	6:15:00	37.787	0.7
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	30.107	9/01/2003 15:26	6:15:00	89.787	0.701
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	30.106	9/01/2003 15:26	6:15:00	163.646	0.534
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	30.104	9/01/2003 15:26	6:15:00	255.288	0.509
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	30.103	9/01/2003 15:26	6:15:00	440.868	0.811
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	30.103	9/01/2003 15:26	6:15:00	524.555	0.421
104	TUCKERGULLY 5765.40			9/01/2003 9:11	30.103	9/01/2003 15:26	6:15:00	807.846	0.842
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	30.101	9/01/2003 15:26	6:15:00	1000.498	0.182
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	30.101	9/01/2003 15:26	6:15:00	1138.651	0.349
107	TUCKERTRIB 0.00			9/01/2003 9:11	30.816	9/01/2003 17:56	8:45:00	2.5	0.28
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	30.296	10/01/2003 0:11	15:00:00	2.584	0.82
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	30.104	9/01/2003 15:26	6:15:00	8.764	1.64
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	30.105	9/01/2003 15:26	6:15:00	38.402	0.862
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	30.105	9/01/2003 15:26	6:15:00	105.758	0.327
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	30.103	9/01/2003 15:26	6:15:00	165.28	0.828
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	30.105	9/01/2003 15:26	6:15:00	232.017	0.434
114	TUCKERTRIB 3377.00			9/01/2003 9:11	30.103	9/01/2003 15:26	6:15:00	283.291	6.069
115	STATIONCK 0.00	S1		9/01/2003 9:11	21.167	9/01/2003 17:56	8:45:00	0.5	0.171
116	STATIONCK 684.50	S2		9/01/2003 9:11	21.167	9/01/2003 17:56	8:45:00	163.506	0.232
117	STATIONCK 1599.70	S3		9/01/2003 9:11	21.166	9/01/2003 17:56	8:45:00	409.603	0.171
118	STATIONCK 2431.30	S4		9/01/2003 9:11	21.165	9/01/2003 17:56	8:45:00	625.679	0.203
119	STATIONCK 3013.70	S5		9/01/2003 9:11	21.164	9/01/2003 17:56	8:45:00	795.052	0.111
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	21.162	9/01/2003 17:56	8:45:00	1021.457	0.171
121	STATIONCK 4481.70	S7		9/01/2003 9:11	21.161	9/01/2003 17:56	8:45:00	1260.06	0.1
122	STATIONCK 5140.80	S8		9/01/2003 9:11	21.16	9/01/2003 17:56	8:45:00	1519.939	0.119
123	STATIONCK 5918.90	S9		9/01/2003 9:11	21.159	9/01/2003 17:56	8:45:00	1861.519	0.164
124	STATIONCK 6575.50	S10		9/01/2003 9:11	21.157	9/01/2003 17:56	8:45:00	2073.122	0.291
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	21.155	9/01/2003 17:56	8:45:00	2162.211	0.361
126	STATIONCK 6954.40			9/01/2003 9:11	21.155	9/01/2003 17:56	8:45:00	7468.343	0.578
127	STATIONCK 7691.00	S11		9/01/2003 9:11	21.128	9/01/2003 17:56	8:45:00	7547.299	0.754
128	MACHINECK 0.00	M1		9/01/2003 9:11	31.43	9/01/2003 15:26	6:15:00	0.5	0.208
129	MACHINECK 726.30	M2		9/01/2003 9:11	26.712	9/01/2003 9:11	0:00:00	0.5	0.207
130	MACHINECK 1186.80	M3		9/01/2003 9:11	25.603	12/01/2003 12:11	75:00:00	0.587	0.076
131	MACHINECK 1699.10	M4		9/01/2003 9:11	21.705	11/01/2003 23:41	62:30:00	0.624	0.049
132	MACHINECK 2214.80	M5		9/01/2003 9:11	18.623	10/01/2003 12:41	27:30:00	7.106	4.619
133	MACHINECK 2730.60	M6		9/01/2003 9:11	17.063	9/01/2003 19:11	10:00:00	12.69	0.339
134	MACHINECK 3140.90	M7		9/01/2003 9:11	17.052	9/01/2003 19:11	10:00:00	19.041	0.606
135	MACHINECK 3611.90	M8		9/01/2003 9:11	17.054	9/01/2003 19:11	10:00:00	44.162	0.256
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	17.056	9/01/2003 19:11	10:00:00	118.354	1.668
137	MACHINECK 5099.90	M10		9/01/2003 9:11	17.054	9/01/2003 19:11	10:00:00	236.335	0.527
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	17.053	9/01/2003 19:11	10:00:00	325.564	0.054
139	MACHINECK 6711.00	M12		9/01/2003 9:11	17.052	9/01/2003 19:11	10:00:00	393.697	0.105
140	O'LSTATION 0.00			9/01/2003 9:11	21.974	9/01/2003 17:56	8:45:00	9039.78	1.21
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	21.917	9/01/2003 17:56	8:45:00	8920.819	1.22
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	21.738	9/01/2003 17:56	8:45:00	8701.5	2.575



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

### Sunny Day Failure

No	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	21.495	9/01/2003 17:56	8:45:00	8562.001	2.188
144	O'LSTATION 2385.50			9/01/2003 9:11	21.259	9/01/2003 17:56	8:45:00	8474.498	4.274
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	21.155	9/01/2003 17:56	8:45:00	8431.746	6.628
146	WURDONGCK 0.00	W1		9/01/2003 9:11	24.648	9/01/2003 19:11	10:00:00	0.5	0.235
147	WURDONGCK 616.40	W2		9/01/2003 9:11	20.003	9/01/2003 9:11	0:00:00	9.571	1.363
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	15.155	9/01/2003 19:11	10:00:00	11.822	2.146
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	15.159	9/01/2003 19:11	10:00:00	26.244	5.122
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	15.161	9/01/2003 19:11	10:00:00	77.489	4.795
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	15.16	9/01/2003 19:11	10:00:00	261.317	0.214
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	15.159	9/01/2003 19:11	10:00:00	506.173	0.392
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	24.039	10/01/2003 7:41	22:30:00	3.5	0.505
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	17.928	9/01/2003 19:11	10:00:00	10.977	1.711
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	17.928	9/01/2003 19:11	10:00:00	40.308	0.121
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	17.928	9/01/2003 19:11	10:00:00	92.569	0.486
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	17.928	9/01/2003 19:11	10:00:00	135.618	1.415
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	17.927	9/01/2003 19:11	10:00:00	176.401	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	18.536	9/01/2003 19:11	10:00:00	1.5	0.208
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	18.532	9/01/2003 19:11	10:00:00	50.879	1.782
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	18.531	9/01/2003 19:11	10:00:00	58.733	1.527
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	18.531	9/01/2003 19:11	10:00:00	113.907	1.185
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	18.531	9/01/2003 19:11	10:00:00	188.3	23.746
164	O'LANDBOYNE 0.00			9/01/2003 9:11	18.531	9/01/2003 19:11	10:00:00	5944.055	3.48
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	15.732	9/01/2003 19:11	10:00:00	5946.547	4.701
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	14.688	9/01/2003 19:11	10:00:00	5947.624	2.373
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	13.535	9/01/2003 19:11	10:00:00	5943.023	3.704
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	13.34	9/01/2003 19:11	10:00:00	5931.988	1.222
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	13.34	9/01/2003 19:11	10:00:00	1489.587	0.757
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	13.34	9/01/2003 19:11	10:00:00	1447.647	0.975
171	O'LAND01 0.00			9/01/2003 9:11	13.34	9/01/2003 19:11	10:00:00	5536.34	1.575
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	12.875	9/01/2003 19:11	10:00:00	5526.989	1.7
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	12.335	9/01/2003 20:26	11:15:00	5505.375	1.585
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	12.078	9/01/2003 20:26	11:15:00	5486.531	1.3
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	11.798	9/01/2003 20:26	11:15:00	5442.02	1.009
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	11.638	9/01/2003 20:26	11:15:00	5391.764	0.871
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	11.244	9/01/2003 20:26	11:15:00	5375.436	2.405
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	11.245	9/01/2003 20:26	11:15:00	0.5	0.017
179	CATTLECK 743.60	CC2		9/01/2003 9:11	11.244	9/01/2003 20:26	11:15:00	43.366	0.158
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	11.244	9/01/2003 20:26	11:15:00	86.615	0.067
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	11.244	9/01/2003 20:26	11:15:00	149.095	0.069
182	CATTLECK 1994.43			9/01/2003 9:11	11.244	9/01/2003 20:26	11:15:00	5400.307	0.993
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	11.061	9/01/2003 20:26	11:15:00	5401.302	2.053
184	CATTLECK 2335.00			9/01/2003 9:11	10.852	9/01/2003 20:26	11:15:00	5402.618	2.126
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	10.997	9/01/2003 20:26	11:15:00	8309.239	1.84
186	STHTREES 851.80	ST2		9/01/2003 9:11	9.912	9/01/2003 20:26	11:15:00	8175.866	1.328
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	9.613	9/01/2003 20:26	11:15:00	8012.757	1.405
188	STHTREES 2361.30	ST4		9/01/2003 9:11	9.373	9/01/2003 20:26	11:15:00	7906.251	1.125
189	STHTREES 2829.50	ST5		9/01/2003 9:11	9.294	9/01/2003 21:41	12:30:00	7870.151	0.894
190	STHTREES 3773.50	ST6		9/01/2003 9:11	9.154	9/01/2003 21:41	12:30:00	7789.479	0.799
191	STHTREES 4171.60	ST7		9/01/2003 9:11	9.071	9/01/2003 21:41	12:30:00	7762.318	0.959
192	STHTREES 4595.40	ST8		9/01/2003 9:11	8.908	9/01/2003 21:41	12:30:00	7740.199	1.376
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	8.672	9/01/2003 21:41	12:30:00	7716.89	1.435
194	STHTREES 5122.39			9/01/2003 9:11	8.672	9/01/2003 21:41	12:30:00	7657.801	1.424
195	STHTREES 5493.40	ST9		9/01/2003 9:11	8.487	9/01/2003 21:41	12:30:00	7642.234	1.521
196	STHTREES 6390.90	ST10		9/01/2003 9:11	7.309	9/01/2003 21:41	12:30:00	7609.845	3.954
197	STHTREES 7658.80	ST11		9/01/2003 9:11	5.922	9/01/2003 21:41	12:30:00	7552.57	0.819
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	5.782	9/01/2003 21:41	12:30:00	7529.804	0.908
199	STHTREES 8251.05			9/01/2003 9:11	5.782	9/01/2003 21:41	12:30:00	7472.919	0.875
200	STHTREES 9287.10	ST12		9/01/2003 9:11	5.452	9/01/2003 22:56	13:45:00	7429.197	1.068
201	STHTREES 11258.10	ST13		9/01/2003 9:11	4.73	9/01/2003 22:56	13:45:00	7308.427	0.929
202	STHTREES 12688.10	ST14		9/01/2003 9:11	4.139	9/01/2003 22:56	13:45:00	7276.39	0.984
203	STHTREES 14444.90	ST15		9/01/2003 9:11	3.609	9/01/2003 22:56	13:45:00	7257.13	0.59
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	7221.281	1.341
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	8.753	9/01/2003 15:26	6:15:00	3.5	0.736
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	8.672	9/01/2003 21:41	12:30:00	9.385	1.129
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	8.672	9/01/2003 21:41	12:30:00	23.218	0.043
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	8.672	9/01/2003 21:41	12:30:00	56.563	0.033
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	8.672	9/01/2003 21:41	12:30:00	99.263	0.036
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	11.256	10/01/2003 12:41	27:30:00	1.5	0.205
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	5.814	9/01/2003 21:41	12:30:00	14.833	1.636
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	5.783	9/01/2003 21:41	12:30:00	31.901	0.021
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	5.783	9/01/2003 21:41	12:30:00	105.792	0.034
214	ELEVENMILECK 3887.00			9/01/2003 9:11	5.782	9/01/2003 21:41	12:30:00	155.067	0.052

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL40

Sunny Day Failure

No	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	24.338	9/01/2003 15:26	6:15:00	2.5	0.91
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	24.339	9/01/2003 15:26	6:15:00	162.123	0.985
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	24.337	9/01/2003 15:26	6:15:00	646.2	0.116
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	24.337	9/01/2003 15:26	6:15:00	697.737	0.121
219	SPILLWAY 0.00			9/01/2003 9:11	39.941	9/01/2003 9:11	0:00:00	16121.078	1.622
220	SPILLWAY 300.00			9/01/2003 9:11	39.523	9/01/2003 11:41	2:30:00	48.322	0.006

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
1	BOYNERIVER 0.00			9/01/2003 9:11	47.107	10/01/2003 2:50	17:39:59	20074.467	1.243	47.107	10/01/2003 2:50	17:39:59	20074.467	1.243
2	BOYNERIVER 100.00			9/01/2003 9:11	47.107	10/01/2003 2:44	17:33:19	76285.656	4.113	47.107	10/01/2003 2:44	17:33:19	4168.208	0.208
3	BOYNERIVER 100.00			9/01/2003 9:11	47.107	10/01/2003 2:44	17:33:19	65694.391	3.542	47.107	10/01/2003 2:44	17:33:19	202.616	0.012
4	BOYNERIVER 150.00			9/01/2003 9:11	47.107	10/01/2003 2:44	17:33:19	64828.371	5.194	47.107	10/01/2003 2:44	17:33:19	169.575	0.015
5	BOYNERIVER 350.00			9/01/2003 9:11	41.394	10/01/2003 6:37	21:26:40	61461.918	5.147	17.935	10/01/2003 4:31	19:20:00	44.644	1.266
6	BOYNERIVER 420.00			9/01/2003 9:11	41.374	10/01/2003 6:37	21:26:40	60707.855	4.98	17.935	10/01/2003 4:31	19:20:00	59.512	1.434
7	BOYNERIVER 420.00			9/01/2003 9:11	41.374	10/01/2003 6:37	21:26:40	60059.766	4.957	17.935	10/01/2003 4:31	19:20:00	4162.312	1.505
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	40.96	10/01/2003 6:44	21:33:19	58634.613	4.232	17.458	10/01/2003 4:44	19:33:19	4161.223	2.014
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	38.856	10/01/2003 6:50	21:39:59	58267.195	6.191	17.026	10/01/2003 4:57	19:46:40	4160.129	1.613
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	36.457	10/01/2003 7:04	21:53:20	58030.93	7.321	16.386	10/01/2003 5:50	20:39:59	4158.346	2.013
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	36.081	10/01/2003 7:11	22:00:00	57920.426	6.686	16.247	10/01/2003 5:50	20:39:59	4157.619	1.673
12	BOYNERIVER 2182.33			9/01/2003 9:11	36.081	10/01/2003 7:11	22:00:00	52487.813	5.595	16.247	10/01/2003 5:50	20:39:59	4153.902	1.654
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	35.001	10/01/2003 7:17	22:06:39	52422.867	5.813	15.933	10/01/2003 5:44	20:33:19	4152.155	1.901
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	34.423	10/01/2003 7:17	22:06:39	52143.73	3.129	15.625	10/01/2003 5:44	20:33:19	4146.117	1.096
15	BOYNERIVER 3120.26			9/01/2003 9:11	34.423	10/01/2003 7:17	22:06:39	51160.574	2.966	15.625	10/01/2003 5:44	20:33:19	4172.833	1.098
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	34.23	10/01/2003 7:17	22:06:39	51116.484	2.87	15.549	10/01/2003 5:44	20:33:19	4166.999	1.088
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	32.727	10/01/2003 7:24	22:13:19	50970.285	4.417	15.09	10/01/2003 5:44	20:33:19	4144.717	1.602
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	29.557	10/01/2003 7:57	22:46:40	50791.688	6.683	14.095	10/01/2003 6:24	21:13:19	4139.79	2.297
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	29.009	10/01/2003 9:24	24:13:19	50456.73	3.828	13.84	10/01/2003 6:24	21:13:19	4133.72	0.978
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	29.009	10/01/2003 9:24	24:13:19	48404.555	3.454	13.84	10/01/2003 6:24	21:13:19	4092.313	0.959
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	28.798	10/01/2003 9:37	24:26:40	48185.219	2.718	13.528	10/01/2003 6:44	21:33:19	4088.76	1.882
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	28.419	10/01/2003 9:50	24:39:59	47731.215	2.545	13.145	10/01/2003 7:11	22:00:00	4084.719	1.368
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	28.419	10/01/2003 9:50	24:39:59	47016.387	2.436	13.145	10/01/2003 7:11	22:00:00	4082.268	1.365
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	27.959	10/01/2003 10:04	24:53:20	46622.723	3.595	12.826	10/01/2003 7:24	22:13:19	4079.649	1.474
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	27.471	10/01/2003 10:17	25:06:39	46097.5	3.635	12.375	10/01/2003 7:50	22:39:59	4075.026	1.737
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	27.471	10/01/2003 10:17	25:06:39	26288.834	2.277	12.375	10/01/2003 7:50	22:39:59	4043.709	1.726
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	27.399	10/01/2003 10:17	25:06:39	25875.018	2.45	12.165	10/01/2003 8:04	22:53:20	4039.669	1.337
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	27.385	10/01/2003 10:17	25:06:39	25559.926	1.592	12.099	10/01/2003 8:04	22:53:20	4035.981	0.783
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	27.234	10/01/2003 10:17	25:06:39	25275.223	3.212	11.954	10/01/2003 8:11	23:00:00	4032.533	1.214
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	27.032	10/01/2003 10:24	25:13:19	25108.17	3.893	11.8	10/01/2003 8:31	23:20:00	4030.976	1.252
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	27.029	10/01/2003 10:24	25:13:19	24970.809	2.976	11.655	10/01/2003 8:44	23:33:19	4040.797	1.269
32	BOYNERIVER 10401.00			9/01/2003 9:11	26.873	10/01/2003 10:24	25:13:19	25319.346	3.624	11.527	10/01/2003 9:04	23:53:20	4138.283	1.24
33	BOYNERIVER 10402.80			9/01/2003 9:11	27.001	10/01/2003 10:31	25:20:00	25323.346	3.625	11.554	10/01/2003 8:44	23:33:19	4140.19	1.242
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	27.018	10/01/2003 10:50	25:39:59	25272.994	3.618	11.639	10/01/2003 9:11	24:00:00	4140.603	1.261
35	BOYNERIVER 10414.00			9/01/2003 9:11	26.879	10/01/2003 10:24	25:13:19	25261.508	3.618	11.526	10/01/2003 8:50	23:39:59	4138.938	1.232
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	26.841	10/01/2003 10:31	25:20:00	24464.793	3.403	11.443	10/01/2003 9:24	24:13:19	4043.877	1.191
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	26.738	10/01/2003 10:31	25:20:00	24403.055	4.174	11.34	10/01/2003 9:24	24:13:19	4025.108	1.44
38	BOYNERIVER 10832.90			9/01/2003 9:11	26.738	10/01/2003 10:31	25:20:00	32652.471	3.854	11.34	10/01/2003 9:24	24:13:19	3986.612	1.381
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	25.231	10/01/2003 10:37	25:26:40	32635.951	5.853	10.983	10/01/2003 9:24	24:13:19	3985.137	1.913
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	23.123	10/01/2003 10:57	25:46:40	32616.576	6.12	10.407	10/01/2003 9:37	24:26:40	3984.475	1.906
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	23.123	10/01/2003 10:57	25:46:40	20404.584	3.969	10.407	10/01/2003 9:37	24:26:40	3265.771	1.564
42	BOYNERIVER 12303.00			9/01/2003 9:11	22.335	10/01/2003 11:04	25:53:20	20377.369	4.283	10.09	10/01/2003 9:44	24:33:19	3265.076	1.544
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	22.335	10/01/2003 11:04	25:53:20	20056.275	4.093	10.09	10/01/2003 9:44	24:33:19	3264.936	1.543

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	22.005	10/01/2003 11:11	26:00:00	20048.99	4.286	9.97	10/01/2003 9:50	24:39:59	3264.686	1.574
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	21.258	10/01/2003 11:17	26:06:39	20030.555	4.684	9.659	10/01/2003 9:57	24:46:40	3264.18	1.747
46	BOYNERIVER 12785.40			9/01/2003 9:11	21.258	10/01/2003 11:17	26:06:39	19556.729	4.29	9.659	10/01/2003 9:57	24:46:40	3259.38	1.737
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	20.972	10/01/2003 11:24	26:13:19	19554.605	4.482	9.564	10/01/2003 9:57	24:46:40	3259.294	1.78
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	20.796	10/01/2003 11:24	26:13:19	19543.395	2.986	9.372	10/01/2003 9:57	24:46:40	3258.828	1.25
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	19.508	10/01/2003 11:37	26:26:40	19521.727	4.334	8.879	10/01/2003 10:11	25:00:00	3258.07	1.841
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	18.936	10/01/2003 11:44	26:33:19	19505.512	3.536	8.659	10/01/2003 10:17	25:06:39	3257.542	1.297
51	BOYNERIVER 14304.56			9/01/2003 9:11	18.936	10/01/2003 11:44	26:33:19	19174.883	3.35	8.659	10/01/2003 10:17	25:06:39	3253.229	1.292
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	18.761	10/01/2003 11:44	26:33:19	19173.633	3.122	8.603	10/01/2003 10:17	25:06:39	3253.149	1.137
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	18.303	10/01/2003 11:44	26:33:19	19167.604	2.465	8.357	10/01/2003 10:17	25:06:39	3252.893	1.284
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	17.374	10/01/2003 11:50	26:39:59	19162.121	3.54	8.029	10/01/2003 10:17	25:06:39	3252.733	1.715
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	16.853	10/01/2003 11:50	26:39:59	19156.783	2.41	7.753	10/01/2003 10:24	25:13:19	3252.583	1.339
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	16.594	10/01/2003 11:50	26:39:59	19150.25	1.814	7.622	10/01/2003 10:24	25:13:19	3252.384	0.957
57	BOYNERIVER 16062.90			9/01/2003 9:11	16.594	10/01/2003 11:50	26:39:59	18902.797	1.854	7.622	10/01/2003 10:24	25:13:19	3847.917	1.134
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	16.547	10/01/2003 11:50	26:39:59	18897.979	1.747	7.589	10/01/2003 10:24	25:13:19	3847.851	1.044
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	15.688	10/01/2003 11:57	26:46:40	18873.305	3.589	7.206	10/01/2003 10:31	25:20:00	3847.459	1.654
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	14.949	10/01/2003 12:04	26:53:20	18855.861	3.73	6.777	10/01/2003 10:31	25:20:00	3847.167	1.759
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	13.69	10/01/2003 12:17	27:06:39	18845.768	6.022	6.28	10/01/2003 10:37	25:26:40	3847.028	2.658
62	BOYNERIVER 17722.19			9/01/2003 9:11	13.69	10/01/2003 12:17	27:06:39	5274.517	2.641	6.28	10/01/2003 10:37	25:26:40	2667.57	1.848
63	BOYNERIVER 17874.50			9/01/2003 9:11	13.653	10/01/2003 12:17	27:06:39	5252.712	3.088	6.134	10/01/2003 10:44	25:33:19	2667.515	2.085
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	13.634	10/01/2003 12:17	27:06:39	5203.14	2.662	5.959	10/01/2003 10:44	25:33:19	2667.397	1.875
65	BOYNERIVER 18184.66			9/01/2003 9:11	13.634	10/01/2003 12:17	27:06:39	15661.611	4.571	5.959	10/01/2003 10:44	25:33:19	2788.585	1.949
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	13.259	10/01/2003 12:17	27:06:39	15661.332	4.034	5.78	10/01/2003 10:50	25:39:59	2788.547	1.735
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	12.205	10/01/2003 12:24	27:13:19	15660.767	4.648	5.449	10/01/2003 10:50	25:39:59	2788.485	1.88
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	12.127	10/01/2003 12:24	27:13:19	15659.675	2.688	5.321	10/01/2003 10:50	25:39:59	2788.41	1.22
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	11.706	10/01/2003 12:24	27:13:19	15656.097	2.143	5.017	10/01/2003 10:50	25:39:59	2788.295	1.39
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	10.957	10/01/2003 12:24	27:13:19	15654.865	3.345	4.71	10/01/2003 10:57	25:46:40	2788.245	1.728
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	10.446	10/01/2003 12:24	27:13:19	15654.297	2.683	4.383	10/01/2003 10:57	25:46:40	2788.211	1.697
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	10.299	10/01/2003 12:24	27:13:19	15653.916	2.315	4.288	10/01/2003 10:57	25:46:40	2788.19	1.449
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	9.424	10/01/2003 12:24	27:13:19	15653.041	3.462	3.953	10/01/2003 10:57	25:46:40	2788.158	1.738
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	8.078	10/01/2003 12:24	27:13:19	15652.71	6.223	3.676	10/01/2003 10:57	25:46:40	2788.158	2.243
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	6.953	10/01/2003 12:31	27:20:00	15652.031	3.515	3.488	10/01/2003 10:57	25:46:40	2788.152	1.382
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	5.242	10/01/2003 12:31	27:20:00	15652.251	3.802	3.155	10/01/2003 10:57	25:46:40	2788.137	1.387
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	15652.479	13.074	2.42	9/01/2003 9:11	0:00:00	2788.128	2.329
78	COOMALCK 0.00	C1		9/01/2003 9:11	38.018	9/01/2003 12:44	3:33:20	184.418	1.785	38.018	9/01/2003 12:44	3:33:20	184.418	1.785
79	COOMALCK 398.20	C2		9/01/2003 9:11	34.436	10/01/2003 7:17	22:06:39	184.948	2.243	33.341	9/01/2003 12:44	3:33:20	184.948	1.911
80	COOMALCK 794.20	C3		9/01/2003 9:11	34.432	10/01/2003 7:17	22:06:39	184.787	2.031	29.642	9/01/2003 12:44	3:33:20	184.787	2.211
81	COOMALCK 1209.50	C4		9/01/2003 9:11	34.429	10/01/2003 7:17	22:06:39	1195.044	4.77	26.578	9/01/2003 12:51	3:40:00	183.979	3.038
82	COOMALCK 1813.30	C5		9/01/2003 9:11	34.425	10/01/2003 7:17	22:06:39	1618.944	5.695	22.272	10/01/2003 2:37	17:26:40	447.922	5.42
83	COOMALCK 2352.80	C6		9/01/2003 9:11	34.425	10/01/2003 7:17	22:06:39	536.791	5.55	17.111	9/01/2003 13:04	3:53:19	507.411	6.125
84	COOMALCK 3112.20	C7		9/01/2003 9:11	34.425	10/01/2003 7:17	22:06:39	414.635	3.594	15.626	10/01/2003 5:37	20:26:40	180.897	3.938
85	COOMALCK 3751.30	C8		9/01/2003 9:11	34.424	10/01/2003 7:17	22:06:39	441.337	1.714	15.624	10/01/2003 5:37	20:26:40	201.493	1.096
86	COOMALCK 4222.50	C9		9/01/2003 9:11	34.423	10/01/2003 7:17	22:06:39	533.08	2.466	15.625	10/01/2003 5:44	20:33:19	167.654	2.648
87	COOMALCK 4305.00			9/01/2003 9:11	34.423	10/01/2003 7:17	22:06:39	540.91	28.747	15.625	10/01/2003 5:44	20:33:19	164.152	30.241
88	YUNKACK 0.00	Y1		9/01/2003 9:11	34.489	9/01/2003 11:24	2:13:20	60.541	1.332	34.489	9/01/2003 11:24	2:13:20	60.541	1.332

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
89	YUNKACK 574.20	Y2		9/01/2003 9:11	28.42	10/01/2003 9:44	24:33:19	60.428	11.318	26.859	9/01/2003 11:51	2:40:00	60.428	1.645
90	YUNKACK 948.90	Y3		9/01/2003 9:11	28.42	10/01/2003 9:50	24:39:59	60.362	1.063	22.26	9/01/2003 11:57	2:46:39	60.362	1.063
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	28.419	10/01/2003 9:50	24:39:59	60.311	9.317	19.001	9/01/2003 12:04	2:53:19	60.311	7.586
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	28.419	10/01/2003 9:44	24:33:19	144.202	1.095	13.145	10/01/2003 7:04	21:53:20	60.317	1.096
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	28.419	10/01/2003 9:44	24:33:19	311.485	1.269	13.145	10/01/2003 7:04	21:53:20	60.008	1.266
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	28.419	10/01/2003 9:50	24:39:59	418.775	37.7	13.145	10/01/2003 7:11	22:00:00	59.614	31.287
95	TUCKERGULLY 0.00			9/01/2003 9:11	36.642	9/01/2003 13:04	3:53:19	238.052	0.856	36.642	9/01/2003 13:04	3:53:19	238.052	0.856
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	36.116	10/01/2003 7:11	22:00:00	236.166	2.138	34.565	9/01/2003 13:04	3:53:19	236.166	2.138
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	36.104	10/01/2003 7:11	22:00:00	235.976	1.836	29.598	9/01/2003 13:17	4:06:40	235.976	1.836
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	36.099	10/01/2003 7:11	22:00:00	235.939	2.297	26.377	9/01/2003 13:17	4:06:40	235.939	2.297
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	36.093	10/01/2003 7:11	22:00:00	235.832	2.047	22.046	9/01/2003 13:24	4:13:20	235.832	2.047
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	36.09	10/01/2003 7:11	22:00:00	311.497	1.691	18.377	9/01/2003 13:31	4:20:00	235.512	1.691
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	36.088	10/01/2003 7:11	22:00:00	427.539	1.834	16.392	9/01/2003 13:31	4:20:00	235.389	1.834
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	36.085	10/01/2003 7:11	22:00:00	636.118	3.675	16.252	10/01/2003 5:50	20:39:59	235.818	2.495
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	36.085	10/01/2003 7:11	22:00:00	733.073	2.762	16.25	10/01/2003 5:50	20:39:59	235.433	2.761
104	TUCKERGULLY 5765.40			9/01/2003 9:11	36.085	10/01/2003 7:11	22:00:00	1251.076	2.77	16.25	10/01/2003 5:50	20:39:59	236.168	2.768
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	36.082	10/01/2003 7:11	22:00:00	1470.674	1.08	16.248	10/01/2003 5:50	20:39:59	228.454	1.069
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	36.081	10/01/2003 7:11	22:00:00	1614.375	4.458	16.247	10/01/2003 5:50	20:39:59	222.923	4.089
107	TUCKERTRIB 0.00			9/01/2003 9:11	36.102	10/01/2003 7:11	22:00:00	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	36.101	10/01/2003 7:11	22:00:00	10.901	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.531
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	36.095	10/01/2003 7:11	22:00:00	51.41	5.593	27.265	9/01/2003 9:11	0:00:00	2.5	0.454
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	36.092	10/01/2003 7:11	22:00:00	150.28	1.269	20.311	9/01/2003 9:11	0:00:00	2.5	0.593
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	36.087	10/01/2003 7:11	22:00:00	257.151	0.316	16.26	10/01/2003 5:50	20:39:59	2.5	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	36.087	10/01/2003 7:11	22:00:00	336.778	0.652	16.254	10/01/2003 5:50	20:39:59	2.5	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	36.085	10/01/2003 7:11	22:00:00	436.239	0.387	16.253	10/01/2003 5:50	20:39:59	3.609	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	36.085	10/01/2003 7:11	22:00:00	521.139	6.064	16.25	10/01/2003 5:50	20:39:59	6.512	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	26.78	10/01/2003 10:31	25:20:00	493.732	0.943	16.576	9/01/2003 13:44	4:33:19	493.732	0.943
116	STATIONCK 684.50	S2		9/01/2003 9:11	26.78	10/01/2003 10:31	25:20:00	487.424	1.129	15.244	9/01/2003 14:17	5:06:40	487.424	1.129
117	STATIONCK 1599.70	S3		9/01/2003 9:11	26.779	10/01/2003 10:31	25:20:00	754.192	1.161	13.599	9/01/2003 14:50	5:39:59	466.898	1.161
118	STATIONCK 2431.30	S4		9/01/2003 9:11	26.779	10/01/2003 10:31	25:20:00	1138.657	1.088	11.341	10/01/2003 9:04	23:53:20	461.443	1.088
119	STATIONCK 3013.70	S5		9/01/2003 9:11	26.778	10/01/2003 10:31	25:20:00	1454.42	0.792	11.341	10/01/2003 8:57	23:46:40	460.034	0.792
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	26.777	10/01/2003 10:31	25:20:00	1859.739	1.05	11.341	10/01/2003 8:57	23:46:40	461.558	1.052
121	STATIONCK 4481.70	S7		9/01/2003 9:11	26.776	10/01/2003 10:31	25:20:00	2234.22	1.093	11.341	10/01/2003 8:57	23:46:40	446.539	1.093
122	STATIONCK 5140.80	S8		9/01/2003 9:11	26.775	10/01/2003 10:31	25:20:00	2616.205	0.574	11.341	10/01/2003 8:57	23:46:40	402.56	0.573
123	STATIONCK 5918.90	S9		9/01/2003 9:11	26.774	10/01/2003 10:31	25:20:00	3107.929	0.479	11.34	10/01/2003 8:57	23:46:40	317.391	0.474
124	STATIONCK 6575.50	S10		9/01/2003 9:11	26.772	10/01/2003 10:31	25:20:00	3427.999	0.389	11.34	10/01/2003 9:04	23:53:20	246.037	0.386
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	26.771	10/01/2003 10:31	25:20:00	3573.686	0.368	11.34	10/01/2003 9:17	24:06:39	218.615	0.366
126	STATIONCK 6954.40			9/01/2003 9:11	26.771	10/01/2003 10:31	25:20:00	15841.354	0.752	11.34	10/01/2003 9:17	24:06:39	219.3	0.366
127	STATIONCK 7691.00	S11		9/01/2003 9:11	26.738	10/01/2003 10:31	25:20:00	15944.142	0.747	11.34	10/01/2003 9:24	24:13:19	188.626	0.604
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.181	9/01/2003 12:44	3:33:20	217.662	1.087	34.181	9/01/2003 12:44	3:33:20	217.662	1.087
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.298	9/01/2003 12:51	3:40:00	217.19	1.137	29.298	9/01/2003 12:51	3:40:00	217.19	1.137
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.084	9/01/2003 12:57	3:46:39	217.103	1.55	27.084	9/01/2003 12:57	3:46:39	217.103	1.55
131	MACHINECK 1699.10	M4		9/01/2003 9:11	23.586	9/01/2003 13:11	4:00:00	216.763	0.91	23.586	9/01/2003 13:11	4:00:00	216.763	0.91
132	MACHINECK 2214.80	M5		9/01/2003 9:11	21.262	10/01/2003 11:17	26:06:39	216.649	4.357	21.151	9/01/2003 13:11	4:00:00	216.649	2.26
133	MACHINECK 2730.60	M6		9/01/2003 9:11	21.261	10/01/2003 11:17	26:06:39	216.627	1.505	17.541	9/01/2003 13:11	4:00:00	216.627	1.505

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
134	MACHINECK 3140.90	M7		9/01/2003 9:11	21.261	10/01/2003 11:17	26:06:39	216.579	2.218	15.53	9/01/2003 13:17	4:06:40	216.579	1.837
135	MACHINECK 3611.90	M8		9/01/2003 9:11	21.261	10/01/2003 11:17	26:06:39	216.517	1.037	13.25	9/01/2003 13:17	4:06:40	216.517	1.037
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	21.26	10/01/2003 11:17	26:06:39	216.133	2.85	11.452	9/01/2003 13:31	4:20:00	216.133	2.85
137	MACHINECK 5099.90	M10		9/01/2003 9:11	21.26	10/01/2003 11:17	26:06:39	354.155	2.252	9.659	10/01/2003 9:57	24:46:40	216.114	2.252
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	21.259	10/01/2003 11:17	26:06:39	479.392	0.935	9.659	10/01/2003 9:57	24:46:40	212.083	0.935
139	MACHINECK 6711.00	M12		9/01/2003 9:11	21.258	10/01/2003 11:17	26:06:39	596.107	1.302	9.659	10/01/2003 9:57	24:46:40	196.944	1.295
140	O'LSTATION 0.00			9/01/2003 9:11	27.471	10/01/2003 10:17	25:06:39	20491.336	1.632	12.375	10/01/2003 7:50	22:39:59	31.501	1.334
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	27.427	10/01/2003 10:17	25:06:39	20244.557	1.626	12.371	10/01/2003 7:50	22:39:59	29.49	1.566
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	27.287	10/01/2003 10:17	25:06:39	19486.645	5.123	12.313	10/01/2003 7:50	22:39:59	27.287	5.019
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	27.063	10/01/2003 10:24	25:13:19	19045.393	2.912	11.387	10/01/2003 9:24	24:13:19	27.204	2.56
144	O'LSTATION 2385.50			9/01/2003 9:11	26.852	10/01/2003 10:31	25:20:00	18791.195	3.781	11.352	10/01/2003 9:24	24:13:19	27.242	2.009
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	26.771	10/01/2003 10:31	25:20:00	18676.436	4.455	11.34	10/01/2003 9:17	24:06:39	27.492	2.502
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.604	9/01/2003 11:17	2:06:40	88.025	1.015	26.604	9/01/2003 11:17	2:06:40	88.025	1.015
147	WURDONGCK 616.40	W2		9/01/2003 9:11	21.383	9/01/2003 11:51	2:40:00	88.003	0.906	21.383	9/01/2003 11:51	2:40:00	88.003	0.906
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	18.938	10/01/2003 11:44	26:33:19	88.098	0.909	16.266	9/01/2003 11:57	2:46:39	88.099	0.909
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	18.937	10/01/2003 11:44	26:33:19	87.079	0.764	13.748	9/01/2003 12:30	3:19:59	87.079	0.764
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	18.937	10/01/2003 11:44	26:33:19	223.94	3.218	8.659	10/01/2003 10:11	25:00:00	86.827	3.232
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	18.937	10/01/2003 11:44	26:33:19	640.22	0.368	8.659	10/01/2003 10:17	25:06:39	83.29	0.365
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	18.936	10/01/2003 11:44	26:33:19	1046.262	0.814	8.659	10/01/2003 10:17	25:06:39	76.114	0.812
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	24.036	9/01/2003 9:11	0:00:00	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	22.336	10/01/2003 11:04	25:53:20	63.832	6.226	16.242	9/01/2003 9:11	0:00:00	4.863	1.016
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	22.335	10/01/2003 11:04	25:53:20	91.279	0.234	10.418	9/01/2003 9:11	0:00:00	5.328	0.23
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	22.335	10/01/2003 11:04	25:53:20	170.111	0.44	10.163	9/01/2003 9:11	0:00:00	3.5	0.439
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	22.335	10/01/2003 11:04	25:53:20	227.898	1.359	10.09	10/01/2003 9:44	24:33:19	3.5	1.359
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	22.335	10/01/2003 11:04	25:53:20	287.835	2.993	10.09	10/01/2003 9:44	24:33:19	4.357	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	23.123	10/01/2003 10:57	25:46:40	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	23.124	10/01/2003 10:57	25:46:40	45.104	10.32	14.526	9/01/2003 9:11	0:00:00	1.5	0.348
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	23.124	10/01/2003 10:57	25:46:40	90.237	0.641	10.415	10/01/2003 9:31	24:20:00	1.5	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	23.123	10/01/2003 10:57	25:46:40	181.709	0.519	10.407	10/01/2003 9:31	24:20:00	2.993	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	23.123	10/01/2003 10:57	25:46:40	293.374	1.329	10.407	10/01/2003 9:37	24:26:40	6.457	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	23.123	10/01/2003 10:57	25:46:40	12333.252	5.087	10.407	10/01/2003 9:37	24:26:40	720.349	1.472
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	19.146	10/01/2003 11:04	25:53:20	12331.797	6.839	8.816	10/01/2003 9:50	24:39:59	720.294	2.266
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	17.768	10/01/2003 11:31	26:20:00	12326.289	3.334	8.186	10/01/2003 10:04	24:53:20	720.212	0.978
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	16.724	10/01/2003 11:50	26:39:59	12290.608	3.988	7.695	10/01/2003 10:17	25:06:39	720.027	1.626
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	16.594	10/01/2003 11:50	26:39:59	12249.248	1.542	7.643	10/01/2003 10:24	25:13:19	719.806	0.508
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	16.594	10/01/2003 11:50	26:39:59	2462.35	0.741	7.643	10/01/2003 10:24	25:13:19	595.782	0.472
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	16.594	10/01/2003 11:50	26:39:59	2387.954	0.695	7.622	10/01/2003 10:24	25:13:19	595.683	0.691
171	O'LAND01 0.00			9/01/2003 9:11	16.594	10/01/2003 11:50	26:39:59	12410.582	2.236	7.643	10/01/2003 10:24	25:13:19	124.027	0.192
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	15.994	10/01/2003 11:57	26:46:40	12399.293	2.418	7.622	10/01/2003 10:24	25:13:19	123.731	0.192
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	15.468	10/01/2003 12:04	26:53:20	12375.906	2.008	7.546	10/01/2003 10:31	25:20:00	123.508	0.702
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	15.254	10/01/2003 12:04	26:53:20	12360.812	1.693	6.899	10/01/2003 10:44	25:33:19	123.39	0.861
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	14.979	10/01/2003 12:11	27:00:00	12327.924	1.403	6.112	10/01/2003 10:57	25:46:40	123.251	0.424
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	14.796	10/01/2003 12:11	27:00:00	12297.676	1.248	5.971	10/01/2003 10:50	25:39:59	123.658	0.129
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	14.32	10/01/2003 12:17	27:06:39	12277.844	2.751	5.962	10/01/2003 10:50	25:39:59	124.138	0.201
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	14.321	10/01/2003 12:17	27:06:39	57.337	0.312	7.945	9/01/2003 11:30	2:19:59	57.337	0.312

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
179	CATTLECK 743.60	CC2		9/01/2003 9:11	14.321	10/01/2003 12:17	27:06:39	81.561	0.869	6.096	9/01/2003 11:57	2:46:39	55.016	0.869
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	14.32	10/01/2003 12:17	27:06:39	159.233	0.776	5.962	10/01/2003 10:50	25:39:59	53.654	0.775
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	14.32	10/01/2003 12:17	27:06:39	259.556	0.179	5.962	10/01/2003 10:50	25:39:59	51.785	0.178
182	CATTLECK 1994.43			9/01/2003 9:11	14.32	10/01/2003 12:17	27:06:39	12218.808	1.553	5.962	10/01/2003 10:50	25:39:59	139.307	0.169
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	14.012	10/01/2003 12:17	27:06:39	12216.887	2.822	5.961	10/01/2003 10:44	25:33:19	142.116	0.216
184	CATTLECK 2335.00			9/01/2003 9:11	13.634	10/01/2003 12:17	27:06:39	12213.441	3	5.959	10/01/2003 10:44	25:33:19	145.34	0.215
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	13.69	10/01/2003 12:17	27:06:39	15454.382	1.781	6.28	10/01/2003 10:37	25:26:40	1179.538	1.78
186	STHTREES 851.80	ST2		9/01/2003 9:11	12.834	10/01/2003 12:37	27:26:40	15305.734	1.561	4.968	10/01/2003 11:17	26:06:39	1178.725	0.837
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	12.579	10/01/2003 12:44	27:33:19	15174.234	1.613	4.575	10/01/2003 11:37	26:26:40	1177.766	1.14
188	STHTREES 2361.30	ST4		9/01/2003 9:11	12.368	10/01/2003 12:44	27:33:19	15052.089	1.336	4.228	10/01/2003 12:04	26:53:20	1176.475	0.737
189	STHTREES 2829.50	ST5		9/01/2003 9:11	12.306	10/01/2003 12:44	27:33:19	14975.435	1.049	4.124	10/01/2003 12:11	27:00:00	1175.425	0.48
190	STHTREES 3773.50	ST6		9/01/2003 9:11	12.146	10/01/2003 12:50	27:39:59	14857.098	1.006	3.955	10/01/2003 12:17	27:06:39	1173.36	0.459
191	STHTREES 4171.60	ST7		9/01/2003 9:11	12.031	10/01/2003 12:50	27:39:59	14829.673	1.304	3.886	10/01/2003 12:24	27:13:19	1172.726	0.464
192	STHTREES 4595.40	ST8		9/01/2003 9:11	11.808	10/01/2003 12:50	27:39:59	14811.466	1.807	3.778	10/01/2003 12:31	27:20:00	1172.281	0.687
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	11.506	10/01/2003 12:50	27:39:59	14791.15	1.875	3.652	10/01/2003 12:31	27:20:00	1171.928	0.598
194	STHTREES 5122.39			9/01/2003 9:11	11.506	10/01/2003 12:50	27:39:59	14746.229	1.853	3.652	10/01/2003 12:31	27:20:00	1171.307	0.597
195	STHTREES 5493.40	ST9		9/01/2003 9:11	11.231	10/01/2003 12:57	27:46:40	14738.976	2.091	3.584	10/01/2003 12:37	27:26:40	1171.202	0.632
196	STHTREES 6390.90	ST10		9/01/2003 9:11	9.692	10/01/2003 13:04	27:53:20	14724.369	4.676	3.144	10/01/2003 12:44	27:33:19	1171.053	2.007
197	STHTREES 7658.80	ST11		9/01/2003 9:11	8.049	10/01/2003 13:31	28:20:00	14656.387	1.138	2.801	10/01/2003 13:17	28:06:39	1170.366	0.258
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	7.862	10/01/2003 13:37	28:26:40	14607.57	1.236	2.771	10/01/2003 13:17	28:06:39	1169.917	0.289
199	STHTREES 8251.05			9/01/2003 9:11	7.862	10/01/2003 13:37	28:26:40	14512.735	1.21	2.771	10/01/2003 13:17	28:06:39	1169.301	0.289
200	STHTREES 9287.10	ST12		9/01/2003 9:11	7.39	10/01/2003 13:44	28:33:19	14469.804	1.478	2.709	10/01/2003 13:24	28:13:19	1169.049	0.341
201	STHTREES 11258.10	ST13		9/01/2003 9:11	6.359	10/01/2003 13:57	28:46:40	14394.4	1.272	2.593	10/01/2003 13:31	28:20:00	1168.808	0.287
202	STHTREES 12688.10	ST14		9/01/2003 9:11	5.491	10/01/2003 14:11	29:00:00	14341.513	1.378	2.519	10/01/2003 13:37	28:26:40	1168.742	0.266
203	STHTREES 14444.90	ST15		9/01/2003 9:11	4.693	10/01/2003 14:17	29:06:39	14277.963	0.843	2.474	10/01/2003 13:37	28:26:40	1168.726	0.145
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	14256.738	2.648	2.42	9/01/2003 9:11	0:00:00	1168.772	0.217
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	11.507	10/01/2003 12:50	27:39:59	102.487	1.117	10.472	9/01/2003 12:11	3:00:00	102.487	1.117
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	11.507	10/01/2003 12:50	27:39:59	102.161	3.23	4.944	9/01/2003 12:11	3:00:00	102.161	2.716
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	11.507	10/01/2003 12:50	27:39:59	101.947	0.356	3.652	10/01/2003 12:31	27:20:00	101.953	0.356
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	11.506	10/01/2003 12:50	27:39:59	100.603	0.203	3.652	10/01/2003 12:31	27:20:00	100.678	0.202
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	11.506	10/01/2003 12:50	27:39:59	155.054	0.106	3.652	10/01/2003 12:31	27:20:00	98.762	0.106
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.072	9/01/2003 12:17	3:06:40	148.506	0.961	13.072	9/01/2003 12:17	3:06:40	148.506	0.961
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	7.863	10/01/2003 13:37	28:26:40	147.323	5.915	5.735	9/01/2003 12:24	3:13:20	147.323	5.646
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	7.863	10/01/2003 13:37	28:26:40	146.246	0.225	2.771	10/01/2003 13:17	28:06:39	146.277	0.225
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	7.863	10/01/2003 13:37	28:26:40	144.854	0.085	2.771	10/01/2003 13:17	28:06:39	143.377	0.085
214	ELEVENMILECK 3887.00			9/01/2003 9:11	7.862	10/01/2003 13:37	28:26:40	210.959	0.084	2.771	10/01/2003 13:17	28:06:39	141.335	0.084
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	29.009	10/01/2003 9:24	24:13:19	75.971	1.381	17.66	9/01/2003 12:11	3:00:00	75.971	1.381
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	29.009	10/01/2003 9:24	24:13:19	245.487	11.496	13.84	10/01/2003 6:31	21:20:00	75.287	7.982
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	29.009	10/01/2003 9:24	24:13:19	910.832	0.176	13.84	10/01/2003 6:24	21:13:19	54.494	0.174
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	29.009	10/01/2003 9:24	24:13:19	982.784	0.168	13.84	10/01/2003 6:24	21:13:19	51.611	0.167
219	SPILLWAY 0.00			9/01/2003 9:11	47.107	10/01/2003 2:44	17:33:19	10831.021	0.587	47.107	10/01/2003 2:44	17:33:19	4167.329	0.189
220	SPILLWAY 300.00			9/01/2003 9:11	41.374	10/01/2003 6:37	21:26:40	4164.436	0.281	17.935	10/01/2003 4:31	19:20:00	4163.16	0.282

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF NoFail				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
1	BOYNERIVER 0.00			9/01/2003 9:11	50.317	10/01/2003 4:11	19:00:00	29489.152	1.556	50.317	10/01/2003 4:11	19:00:00	29489.152	1.556
2	BOYNERIVER 100.00			9/01/2003 9:11	50.315	10/01/2003 4:04	18:53:20	90484.008	4.582	50.315	10/01/2003 4:04	18:53:20	9868.238	0.46
3	BOYNERIVER 100.00			9/01/2003 9:11	50.315	10/01/2003 4:04	18:53:20	76992.508	3.903	50.315	10/01/2003 4:04	18:53:20	82.972	0.005
4	BOYNERIVER 150.00			9/01/2003 9:11	50.315	10/01/2003 4:04	18:53:20	75956.344	5.585	50.315	10/01/2003 4:04	18:53:20	69.244	0.006
5	BOYNERIVER 350.00			9/01/2003 9:11	44.031	10/01/2003 8:04	22:53:20	71907.133	5.449	24.255	10/01/2003 5:17	20:06:39	44.654	1.266
6	BOYNERIVER 420.00			9/01/2003 9:11	44.059	10/01/2003 8:04	22:53:20	70967.203	5.18	24.254	10/01/2003 5:17	20:06:39	59.552	1.432
7	BOYNERIVER 420.00			9/01/2003 9:11	44.059	10/01/2003 8:04	22:53:20	70947.109	5.238	24.254	10/01/2003 5:17	20:06:39	9851.977	1.957
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	43.781	10/01/2003 8:04	22:53:20	69253.359	4.266	23.764	10/01/2003 5:17	20:06:39	9847.475	2.443
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	41.522	10/01/2003 8:11	23:00:00	68781.469	6.623	23.094	10/01/2003 5:17	20:06:39	9840.629	2.328
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	38.934	10/01/2003 8:24	23:13:19	68533.984	7.757	22.179	10/01/2003 5:57	20:46:40	9833.18	2.814
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	38.564	10/01/2003 8:31	23:20:00	68445.891	7.016	22.016	10/01/2003 5:57	20:46:40	9831.356	2.23
12	BOYNERIVER 2182.33			9/01/2003 9:11	38.564	10/01/2003 8:31	23:20:00	62897.348	6.032	22.016	10/01/2003 5:57	20:46:40	9792.207	2.199
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	37.419	10/01/2003 8:31	23:20:00	62843.563	6.217	21.593	10/01/2003 5:57	20:46:40	9789.393	2.534
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	36.911	10/01/2003 8:37	23:26:40	62604.191	3.303	21.216	10/01/2003 5:57	20:46:40	9791.709	1.369
15	BOYNERIVER 3120.26			9/01/2003 9:11	36.911	10/01/2003 8:37	23:26:40	61684.984	3.185	21.216	10/01/2003 5:57	20:46:40	9833.854	1.351
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	36.72	10/01/2003 8:37	23:26:40	61650.207	3.067	21.116	10/01/2003 5:57	20:46:40	9832.582	1.388
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	35.096	10/01/2003 8:44	23:33:19	61536.559	4.78	20.559	10/01/2003 5:57	20:46:40	9811.425	1.898
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	32.153	10/01/2003 10:31	25:20:00	61392.105	7.081	19.264	10/01/2003 6:50	21:39:59	9804.807	3.228
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	31.784	10/01/2003 10:50	25:39:59	61108.836	4.021	18.816	10/01/2003 7:24	22:13:19	9785.855	1.437
20	BOYNERIVER 5457.30	B17.0	Little Oakly Ck	9/01/2003 9:11	31.784	10/01/2003 10:50	25:39:59	58853.535	3.751	18.816	10/01/2003 7:24	22:13:19	9610.714	1.394
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	31.634	10/01/2003 10:50	25:39:59	58596.449	2.811	18.472	10/01/2003 7:44	22:33:19	9586.789	2.186
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	57998.84	2.632	17.901	10/01/2003 8:24	23:13:19	9558.465	1.697
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	56981.434	2.544	17.901	10/01/2003 8:24	23:13:19	9515.575	1.683
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	30.904	10/01/2003 11:11	26:00:00	56418.973	3.458	17.375	10/01/2003 8:37	23:26:40	9489.219	1.912
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	30.446	10/01/2003 11:24	26:13:19	55678.59	3.646	16.875	10/01/2003 9:04	23:53:20	9457.417	1.997
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	30.446	10/01/2003 11:24	26:13:19	29269.898	2.024	16.875	10/01/2003 9:04	23:53:20	7660.52	1.967
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	30.385	10/01/2003 11:24	26:13:19	28783.926	2.185	16.706	10/01/2003 9:11	24:00:00	7630.644	1.503
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	30.374	10/01/2003 11:24	26:13:19	28420.793	1.498	16.662	10/01/2003 9:11	24:00:00	7607	0.906
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	30.215	10/01/2003 11:24	26:13:19	28103.598	3.059	16.513	10/01/2003 9:17	24:06:39	7583.155	1.601
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	30.007	10/01/2003 11:31	26:20:00	27890.842	3.732	16.326	10/01/2003 9:24	24:13:19	7568.495	1.765
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	30.025	10/01/2003 11:31	26:20:00	27588.412	2.668	16.209	10/01/2003 9:37	24:26:40	7564.974	1.608
32	BOYNERIVER 10401.00			9/01/2003 9:11	29.854	10/01/2003 11:31	26:20:00	27316.002	3.482	16.078	10/01/2003 9:44	24:33:19	7658.188	1.7
33	BOYNERIVER 10402.80			9/01/2003 9:11	29.92	10/01/2003 11:31	26:20:00	27312.854	3.481	16.09	10/01/2003 9:24	24:13:19	7659.623	1.701
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	29.949	10/01/2003 11:50	26:39:59	27272.268	3.456	16.165	10/01/2003 9:57	24:46:40	7654.4	1.689
35	BOYNERIVER 10414.00			9/01/2003 9:11	29.854	10/01/2003 11:31	26:20:00	27269.227	3.453	16.077	10/01/2003 9:31	24:20:00	7652.275	1.687
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	29.826	10/01/2003 11:31	26:20:00	27383.191	3.14	16.013	10/01/2003 9:37	24:26:40	7547.724	1.567
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	29.715	10/01/2003 11:37	26:26:40	27242.975	3.762	15.91	10/01/2003 9:44	24:33:19	7523.895	1.926
38	BOYNERIVER 10832.90			9/01/2003 9:11	29.715	10/01/2003 11:37	26:26:40	41782.941	4.359	15.91	10/01/2003 9:44	24:33:19	9027.612	2.006
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	27.921	10/01/2003 11:44	26:33:19	41769.684	6.642	15.295	10/01/2003 9:50	24:39:59	9025.584	2.952
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	41751.953	6.969	14.337	10/01/2003 10:04	24:53:20	9023.737	2.952
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	25220.004	4.323	14.337	10/01/2003 10:04	24:53:20	6695.05	2.198
42	BOYNERIVER 12303.00			9/01/2003 9:11	24.575	10/01/2003 12:04	26:53:20	25197.393	4.699	13.903	10/01/2003 10:17	25:06:39	6693.039	2.212



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF NoFail				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	24.575	10/01/2003 12:04	26:53:20	24911.947	4.535	13.903	10/01/2003 10:17	25:06:39	6680.564	2.203
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	24.19	10/01/2003 12:11	27:00:00	24906.992	4.754	13.737	10/01/2003 10:17	25:06:39	6680.038	2.27
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	23.373	10/01/2003 12:17	27:06:39	24894.293	5.051	13.309	10/01/2003 10:31	25:20:00	6678.871	2.493
46	BOYNERIVER 12785.40			9/01/2003 9:11	23.373	10/01/2003 12:17	27:06:39	24502.209	4.743	13.309	10/01/2003 10:31	25:20:00	6654.163	2.473
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	23.04	10/01/2003 12:24	27:13:19	24500.275	4.968	13.173	10/01/2003 10:31	25:20:00	6653.96	2.539
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	22.892	10/01/2003 12:24	27:13:19	24491.795	3.323	12.974	10/01/2003 10:37	25:26:40	6652.886	1.723
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	21.411	10/01/2003 12:31	27:20:00	24475.006	4.731	12.239	10/01/2003 10:50	25:39:59	6650.723	2.627
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	20.761	10/01/2003 12:37	27:26:40	24461.504	3.945	11.934	10/01/2003 10:57	25:46:40	6649.021	1.9
51	BOYNERIVER 14304.56			9/01/2003 9:11	20.761	10/01/2003 12:37	27:26:40	24149.223	3.831	11.934	10/01/2003 10:57	25:46:40	6624.338	1.885
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	20.557	10/01/2003 12:44	27:33:19	24148.223	3.591	11.854	10/01/2003 10:57	25:46:40	6624.149	1.695
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	20.1	10/01/2003 12:44	27:33:19	24143.506	2.716	11.536	10/01/2003 10:57	25:46:40	6623.603	1.638
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	19.065	10/01/2003 12:44	27:33:19	24138.9	3.891	11.019	10/01/2003 10:57	25:46:40	6623.185	2.39
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	18.584	10/01/2003 12:44	27:33:19	24133.563	2.531	10.64	10/01/2003 11:04	25:53:20	6622.66	1.85
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	18.316	10/01/2003 12:50	27:39:59	24128.543	1.976	10.494	10/01/2003 11:04	25:53:20	6622.14	1.258
57	BOYNERIVER 16062.90			9/01/2003 9:11	18.316	10/01/2003 12:50	27:39:59	23116.619	1.935	10.494	10/01/2003 11:04	25:53:20	7210.628	1.377
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	18.27	10/01/2003 12:50	27:39:59	23111.604	1.842	10.461	10/01/2003 11:04	25:53:20	7210.182	1.275
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	17.318	10/01/2003 12:50	27:39:59	23088.74	3.952	9.969	10/01/2003 11:11	26:00:00	7208.02	2.194
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	16.522	10/01/2003 13:04	27:53:20	23072.135	4.085	9.458	10/01/2003 11:17	26:06:39	7206.317	2.297
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	15.153	10/01/2003 13:11	28:00:00	23061.336	6.388	8.677	10/01/2003 11:31	26:20:00	7205.451	3.778
62	BOYNERIVER 17722.19			9/01/2003 9:11	15.153	10/01/2003 13:11	28:00:00	4904.229	2.208	8.677	10/01/2003 11:31	26:20:00	3656	2.042
63	BOYNERIVER 17874.50			9/01/2003 9:11	15.134	10/01/2003 13:11	28:00:00	4882.383	2.569	8.531	10/01/2003 11:37	26:26:40	3655.361	2.332
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	15.125	10/01/2003 13:11	28:00:00	4834.695	2.182	8.409	10/01/2003 11:37	26:26:40	3653.998	2.046
65	BOYNERIVER 18184.66			9/01/2003 9:11	15.125	10/01/2003 13:11	28:00:00	20202.113	5.206	8.409	10/01/2003 11:37	26:26:40	5366.971	2.772
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	14.692	10/01/2003 13:11	28:00:00	20201.934	4.652	8.18	10/01/2003 11:37	26:26:40	5366.878	2.367
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	13.411	10/01/2003 13:17	28:06:39	20201.477	5.407	7.67	10/01/2003 11:44	26:33:19	5366.721	2.604
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	13.369	10/01/2003 13:17	28:06:39	20200.461	3.069	7.526	10/01/2003 11:44	26:33:19	5366.481	1.622
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	12.957	10/01/2003 13:17	28:06:39	20196.951	2.301	7.143	10/01/2003 11:44	26:33:19	5366.145	1.684
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	12.093	10/01/2003 13:17	28:06:39	20194.416	3.767	6.687	10/01/2003 11:44	26:33:19	5365.932	2.246
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	11.646	10/01/2003 13:17	28:06:39	20193.727	2.734	6.272	10/01/2003 11:44	26:33:19	5365.804	1.981
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	11.451	10/01/2003 13:17	28:06:39	20193.523	2.556	6.125	10/01/2003 11:44	26:33:19	5365.77	1.805
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	10.55	10/01/2003 13:17	28:06:39	20193.027	3.598	5.562	10/01/2003 11:44	26:33:19	5365.695	2.416
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	9.147	10/01/2003 13:17	28:06:39	20192.811	6.714	4.976	10/01/2003 11:44	26:33:19	5365.674	3.422
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	7.731	10/01/2003 13:17	28:06:39	20192.348	3.928	4.559	10/01/2003 11:50	26:39:59	5365.623	2.108
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	5.759	10/01/2003 13:17	28:06:39	20191.709	4.306	3.908	10/01/2003 11:50	26:39:59	5365.655	1.966
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	20191.391	16.865	2.42	9/01/2003 9:11	0:00:00	5365.668	4.482
78	COOMALCK 0.00	C1		9/01/2003 9:11	38.051	9/01/2003 12:44	3:33:20	189.639	1.797	38.051	9/01/2003 12:44	3:33:20	189.639	1.797
79	COOMALCK 398.20	C2		9/01/2003 9:11	36.927	10/01/2003 8:37	23:26:40	191.091	2.441	33.375	9/01/2003 12:44	3:33:20	191.091	3.374
80	COOMALCK 794.20	C3		9/01/2003 9:11	36.921	10/01/2003 8:37	23:26:40	190.97	3.388	29.675	9/01/2003 12:44	3:33:20	190.97	14.412
81	COOMALCK 1209.50	C4		9/01/2003 9:11	36.918	10/01/2003 8:37	23:26:40	192.902	1.613	27.082	10/01/2003 9:17	24:06:39	255.053	3.151
82	COOMALCK 1813.30	C5		9/01/2003 9:11	36.912	10/01/2003 8:37	23:26:40	214.003	3.035	21.945	9/01/2003 12:51	3:40:00	204.471	3.035
83	COOMALCK 2352.80	C6		9/01/2003 9:11	36.912	10/01/2003 8:37	23:26:40	185.76	1.194	21.238	10/01/2003 5:50	20:39:59	185.76	1.194
84	COOMALCK 3112.20	C7		9/01/2003 9:11	36.911	10/01/2003 8:37	23:26:40	317.484	2.003	21.21	10/01/2003 5:50	20:39:59	216.617	2.003
85	COOMALCK 3751.30	C8		9/01/2003 9:11	36.911	10/01/2003 8:37	23:26:40	486.087	1.11	21.204	10/01/2003 5:57	20:46:40	201.608	1.11
86	COOMALCK 4222.50	C9		9/01/2003 9:11	36.911	10/01/2003 8:37	23:26:40	582.762	2.695	21.214	10/01/2003 5:57	20:46:40	221.768	2.695

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF NoFail				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
87	COOMALCK 4305.00			9/01/2003 9:11	36.911	10/01/2003 8:37	23:26:40	590.825	40.507	21.216	10/01/2003 5:57	20:46:40	222.045	40.507
88	YUNKACK 0.00	Y1		9/01/2003 9:11	34.469	9/01/2003 12:17	3:06:40	59.783	1.325	34.469	9/01/2003 12:17	3:06:40	59.783	1.325
89	YUNKACK 574.20	Y2		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	59.167	11.306	26.836	9/01/2003 12:24	3:13:20	59.167	1.633
90	YUNKACK 948.90	Y3		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	59.077	1.387	22.245	9/01/2003 12:30	3:19:59	59.077	1.053
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	81.893	8.612	18.989	9/01/2003 12:37	3:26:39	59.013	8.612
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	190.301	1.092	17.903	10/01/2003 8:24	23:13:19	59.027	1.092
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	379.669	1.241	17.902	10/01/2003 8:24	23:13:19	58.645	1.241
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	31.3	10/01/2003 11:04	25:53:20	500.618	23.26	17.901	10/01/2003 8:24	23:13:19	58.086	23.26
95	TUCKERGULLY 0.00			9/01/2003 9:11	38.581	10/01/2003 8:31	23:20:00	242.727	0.83	36.659	9/01/2003 12:51	3:40:00	242.727	0.83
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	38.58	10/01/2003 8:37	23:26:40	238.064	2.131	34.578	9/01/2003 12:57	3:46:39	238.064	2.131
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	38.579	10/01/2003 8:31	23:20:00	237.438	2.75	29.607	9/01/2003 13:04	3:53:19	237.438	1.841
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	38.584	10/01/2003 8:31	23:20:00	237.157	2.3	26.385	9/01/2003 13:04	3:53:19	237.157	2.3
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	38.582	10/01/2003 8:31	23:20:00	266.725	2.048	22.056	9/01/2003 13:11	4:00:00	237.109	2.048
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	38.574	10/01/2003 8:24	23:13:19	380.023	1.665	22.034	10/01/2003 6:04	20:53:20	236.326	1.665
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	38.568	10/01/2003 8:24	23:13:19	504.272	1.837	22.025	10/01/2003 6:04	20:53:20	235.951	1.837
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	38.567	10/01/2003 8:31	23:20:00	703.625	3.632	22.013	10/01/2003 5:44	20:33:19	236.046	2.461
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	38.568	10/01/2003 8:31	23:20:00	778.82	2.755	22.011	10/01/2003 5:44	20:33:19	235.839	2.755
104	TUCKERGULLY 5765.40			9/01/2003 9:11	38.568	10/01/2003 8:31	23:20:00	1343.358	2.764	22.011	10/01/2003 5:44	20:33:19	236.656	2.764
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	38.565	10/01/2003 8:31	23:20:00	1543.633	1.095	22.014	10/01/2003 5:57	20:46:40	229.8	1.095
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	38.564	10/01/2003 8:31	23:20:00	1677.516	4.393	22.016	10/01/2003 5:57	20:46:40	225.022	4.393
107	TUCKERTRIB 0.00			9/01/2003 9:11	38.588	10/01/2003 8:31	23:20:00	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	38.586	10/01/2003 8:31	23:20:00	22.518	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.531
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	38.578	10/01/2003 8:31	23:20:00	61.955	5.943	27.265	9/01/2003 9:11	0:00:00	2.5	0.498
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	38.571	10/01/2003 8:24	23:13:19	170.529	1.27	22.033	10/01/2003 6:04	20:53:20	2.565	1.268
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	38.572	10/01/2003 8:31	23:20:00	305.533	0.316	22.031	10/01/2003 6:04	20:53:20	14.153	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	38.573	10/01/2003 8:31	23:20:00	383.742	0.652	22.025	10/01/2003 6:04	20:53:20	25.634	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	38.57	10/01/2003 8:31	23:20:00	493.8	0.387	22.014	10/01/2003 6:04	20:53:20	34.337	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	38.568	10/01/2003 8:31	23:20:00	600.756	6.064	22.011	10/01/2003 5:44	20:33:19	39.518	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	29.757	10/01/2003 11:37	26:26:40	475.025	0.861	16.527	9/01/2003 13:17	4:06:40	475.025	0.861
116	STATIONCK 684.50	S2		9/01/2003 9:11	29.756	10/01/2003 11:37	26:26:40	465.818	1.117	15.922	10/01/2003 9:44	24:33:19	465.818	1.117
117	STATIONCK 1599.70	S3		9/01/2003 9:11	29.756	10/01/2003 11:37	26:26:40	941.718	1.047	15.922	10/01/2003 9:44	24:33:19	441.889	1.047
118	STATIONCK 2431.30	S4		9/01/2003 9:11	29.755	10/01/2003 11:37	26:26:40	1453.056	0.974	15.922	10/01/2003 9:44	24:33:19	437.116	0.974
119	STATIONCK 3013.70	S5		9/01/2003 9:11	29.754	10/01/2003 11:37	26:26:40	1869.163	0.776	15.922	10/01/2003 9:44	24:33:19	435.741	0.776
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	29.754	10/01/2003 11:37	26:26:40	2370.195	0.948	15.922	10/01/2003 9:44	24:33:19	437.232	0.948
121	STATIONCK 4481.70	S7		9/01/2003 9:11	29.753	10/01/2003 11:37	26:26:40	2798.813	1.087	15.922	10/01/2003 9:44	24:33:19	428.369	1.087
122	STATIONCK 5140.80	S8		9/01/2003 9:11	29.752	10/01/2003 11:37	26:26:40	3223.467	0.573	15.922	10/01/2003 9:44	24:33:19	397.972	0.573
123	STATIONCK 5918.90	S9		9/01/2003 9:11	29.751	10/01/2003 11:37	26:26:40	3770.606	0.476	15.921	10/01/2003 9:44	24:33:19	358.542	0.476
124	STATIONCK 6575.50	S10		9/01/2003 9:11	29.749	10/01/2003 11:37	26:26:40	4142.074	0.4	15.921	10/01/2003 9:44	24:33:19	402.253	0.4
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	29.748	10/01/2003 11:37	26:26:40	4320.717	0.387	15.921	10/01/2003 9:44	24:33:19	421.553	0.387
126	STATIONCK 6954.40			9/01/2003 9:11	29.748	10/01/2003 11:37	26:26:40	21437.416	0.816	15.921	10/01/2003 9:44	24:33:19	1941.885	0.387
127	STATIONCK 7691.00	S11		9/01/2003 9:11	29.715	10/01/2003 11:37	26:26:40	21550.021	0.798	15.91	10/01/2003 9:44	24:33:19	1964.881	0.666
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.203	9/01/2003 12:44	3:33:20	222.058	1.093	34.203	9/01/2003 12:44	3:33:20	222.058	1.093
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.313	9/01/2003 12:51	3:40:00	220.833	1.146	29.313	9/01/2003 12:51	3:40:00	220.833	1.146
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.093	9/01/2003 12:51	3:40:00	220.712	1.553	27.093	9/01/2003 12:51	3:40:00	220.712	1.553

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF NoFail				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
131	MACHINECK 1699.10	M4		9/01/2003 9:11	23.598	9/01/2003 12:57	3:46:39	219.684	0.917	23.598	9/01/2003 12:57	3:46:39	219.684	0.917
132	MACHINECK 2214.80	M5		9/01/2003 9:11	23.376	10/01/2003 12:17	27:06:39	219.216	2.262	21.158	9/01/2003 13:04	3:53:19	219.216	2.262
133	MACHINECK 2730.60	M6		9/01/2003 9:11	23.375	10/01/2003 12:17	27:06:39	219.197	1.447	17.549	9/01/2003 13:04	3:53:19	219.197	1.447
134	MACHINECK 3140.90	M7		9/01/2003 9:11	23.375	10/01/2003 12:17	27:06:39	218.922	1.838	15.538	9/01/2003 13:11	4:00:00	218.922	1.838
135	MACHINECK 3611.90	M8		9/01/2003 9:11	23.375	10/01/2003 12:17	27:06:39	218.778	1.041	13.309	10/01/2003 10:31	25:20:00	218.778	1.041
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	23.374	10/01/2003 12:17	27:06:39	217.771	19.443	13.309	10/01/2003 10:31	25:20:00	217.771	1.615
137	MACHINECK 5099.90	M10		9/01/2003 9:11	23.374	10/01/2003 12:17	27:06:39	365.665	2.241	13.309	10/01/2003 10:31	25:20:00	217.174	2.241
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	23.373	10/01/2003 12:17	27:06:39	504.661	0.893	13.309	10/01/2003 10:31	25:20:00	213.653	0.893
139	MACHINECK 6711.00	M12		9/01/2003 9:11	23.373	10/01/2003 12:17	27:06:39	632.788	1.255	13.309	10/01/2003 10:31	25:20:00	199.296	1.255
140	O'LSTATION 0.00			9/01/2003 9:11	30.446	10/01/2003 11:24	26:13:19	26889.762	1.699	16.875	10/01/2003 9:04	23:53:20	1921.732	1.375
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	30.406	10/01/2003 11:24	26:13:19	26554.344	1.69	16.813	10/01/2003 9:04	23:53:20	1916.189	1.667
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	30.274	10/01/2003 11:24	26:13:19	25614.936	4.661	16.579	10/01/2003 9:17	24:06:39	1902.816	5.097
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	30.043	10/01/2003 11:31	26:20:00	25124.094	3.132	16.263	10/01/2003 9:31	24:20:00	1895.662	3.132
144	O'LSTATION 2385.50			9/01/2003 9:11	29.826	10/01/2003 11:37	26:26:40	24867.273	3.718	16.024	10/01/2003 9:44	24:33:19	1891.7	2.087
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	29.748	10/01/2003 11:37	26:26:40	24753.48	3.872	15.921	10/01/2003 9:44	24:33:19	1890.057	2.54
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.598	9/01/2003 12:37	3:26:39	88.839	0.962	26.598	9/01/2003 12:37	3:26:39	88.839	0.962
147	WURDONGCK 616.40	W2		9/01/2003 9:11	21.39	9/01/2003 12:44	3:33:20	88.274	0.904	21.39	9/01/2003 12:44	3:33:20	88.274	0.904
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	20.762	10/01/2003 12:37	27:26:40	87.482	0.913	16.239	9/01/2003 12:51	3:40:00	87.482	0.913
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	20.762	10/01/2003 12:44	27:33:19	86.793	3.968	13.739	9/01/2003 13:04	3:53:19	86.793	3.968
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	20.762	10/01/2003 12:37	27:26:40	264.053	3.336	11.934	10/01/2003 10:57	25:46:40	86.211	0.708
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	20.762	10/01/2003 12:37	27:26:40	721.804	0.362	11.934	10/01/2003 10:57	25:46:40	82.56	0.362
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	20.761	10/01/2003 12:37	27:26:40	1146.186	0.795	11.934	10/01/2003 10:57	25:46:40	120.722	0.795
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	24.576	10/01/2003 12:11	27:00:00	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	24.576	10/01/2003 12:04	26:53:20	65.257	6.259	16.242	9/01/2003 9:11	0:00:00	29.715	6.209
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	24.576	10/01/2003 12:04	26:53:20	119.512	0.23	13.903	10/01/2003 10:17	25:06:39	25.586	0.226
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	24.576	10/01/2003 12:04	26:53:20	206.639	0.446	13.903	10/01/2003 10:17	25:06:39	11.733	0.446
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	24.576	10/01/2003 12:04	26:53:20	263.006	1.359	13.903	10/01/2003 10:17	25:06:39	21.628	1.359
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	24.575	10/01/2003 12:04	26:53:20	323.956	2.993	13.903	10/01/2003 10:17	25:06:39	34.72	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	52.809	9.891	14.526	9/01/2003 9:11	0:00:00	35.039	10.229
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	118.408	0.641	14.337	10/01/2003 10:04	24:53:20	43.888	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	222.672	0.519	14.337	10/01/2003 10:04	24:53:20	16.896	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	352.192	1.329	14.337	10/01/2003 10:04	24:53:20	32.326	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	25.48	10/01/2003 11:57	26:46:40	16593.482	5.947	14.337	10/01/2003 10:04	24:53:20	2331.076	2.196
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	20.951	10/01/2003 12:11	27:00:00	16591.633	7.963	12.399	10/01/2003 10:17	25:06:39	2330.857	3.059
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	19.391	10/01/2003 12:31	27:20:00	16585.133	3.819	11.536	10/01/2003 10:31	25:20:00	2330.372	1.666
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	18.423	10/01/2003 12:44	27:33:19	16546.033	3.216	10.598	10/01/2003 10:57	25:46:40	2328.489	2.626
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	18.316	10/01/2003 12:50	27:39:59	16503.895	1.628	10.495	10/01/2003 11:04	25:53:20	2326.709	0.758
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	18.316	10/01/2003 12:50	27:39:59	2415.783	0.492	10.495	10/01/2003 11:04	25:53:20	809.041	0.492
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	18.316	10/01/2003 12:50	27:39:59	2356.556	0.714	10.494	10/01/2003 11:04	25:53:20	801.5	0.714
171	O'LAND01 0.00			9/01/2003 9:11	18.316	10/01/2003 12:50	27:39:59	17421.605	2.565	10.495	10/01/2003 11:04	25:53:20	1736.048	0.89
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	17.646	10/01/2003 12:50	27:39:59	17411.207	2.768	10.241	10/01/2003 11:11	26:00:00	1735.53	0.953
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	17.114	10/01/2003 12:57	27:46:40	17389.742	2.264	9.752	10/01/2003 11:17	26:06:39	1734.592	1.179
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	16.905	10/01/2003 12:57	27:46:40	17373.926	1.929	9.306	10/01/2003 11:24	26:13:19	1733.761	0.959

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF NoFail				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	16.618	10/01/2003 13:04	27:53:20	17346.16	1.629	8.9	10/01/2003 11:37	26:26:40	1731.532	0.686
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	16.416	10/01/2003 13:04	27:53:20	17318.994	1.466	8.74	10/01/2003 11:37	26:26:40	1729.825	0.551
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	15.882	10/01/2003 13:11	28:00:00	17299.891	2.892	8.522	10/01/2003 11:37	26:26:40	1729.396	1.424
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	15.882	10/01/2003 13:11	28:00:00	56.063	0.313	8.522	10/01/2003 11:37	26:26:40	56.063	0.313
179	CATTLECK 743.60	CC2		9/01/2003 9:11	15.882	10/01/2003 13:11	28:00:00	106.035	0.864	8.522	10/01/2003 11:37	26:26:40	54.674	0.864
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	15.882	10/01/2003 13:11	28:00:00	201.196	0.771	8.522	10/01/2003 11:37	26:26:40	53.701	0.771
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	15.882	10/01/2003 13:11	28:00:00	314.717	0.175	8.522	10/01/2003 11:37	26:26:40	51.64	0.175
182	CATTLECK 1994.43			9/01/2003 9:11	15.882	10/01/2003 13:11	28:00:00	17235.539	1.848	8.522	10/01/2003 11:37	26:26:40	1730.285	0.492
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	15.553	10/01/2003 13:11	28:00:00	17233.443	2.971	8.471	10/01/2003 11:37	26:26:40	1730.429	0.988
184	CATTLECK 2335.00			9/01/2003 9:11	15.125	10/01/2003 13:11	28:00:00	17229.377	3.21	8.409	10/01/2003 11:37	26:26:40	1730.61	0.999
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	15.153	10/01/2003 13:11	28:00:00	20143.523	1.837	8.677	10/01/2003 11:31	26:20:00	3555.114	1.837
186	STHTREES 851.80	ST2		9/01/2003 9:11	14.351	10/01/2003 13:24	28:13:19	20006.025	1.564	7.372	10/01/2003 12:24	27:13:19	3545.18	1.032
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	14.101	10/01/2003 13:31	28:20:00	19894.693	1.593	7.03	10/01/2003 12:37	27:26:40	3534.592	1.305
188	STHTREES 2361.30	ST4		9/01/2003 9:11	13.887	10/01/2003 13:31	28:20:00	19788.074	1.358	6.759	10/01/2003 12:50	27:39:59	3523.033	0.778
189	STHTREES 2829.50	ST5		9/01/2003 9:11	13.831	10/01/2003 13:31	28:20:00	19723.346	1.013	6.67	10/01/2003 12:57	27:46:40	3515.536	0.609
190	STHTREES 3773.50	ST6		9/01/2003 9:11	13.661	10/01/2003 13:31	28:20:00	19621.863	1.121	6.521	10/01/2003 12:57	27:46:40	3502.797	0.581
191	STHTREES 4171.60	ST7		9/01/2003 9:11	13.524	10/01/2003 13:31	28:20:00	19599.168	1.494	6.45	10/01/2003 12:57	27:46:40	3499.473	0.669
192	STHTREES 4595.40	ST8		9/01/2003 9:11	13.268	10/01/2003 13:37	28:26:40	19582.688	2.038	6.321	10/01/2003 13:04	27:53:20	3496.995	0.989
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	12.948	10/01/2003 13:37	28:26:40	19564.689	2.076	6.141	10/01/2003 13:11	28:00:00	3495.131	0.984
194	STHTREES 5122.39			9/01/2003 9:11	12.948	10/01/2003 13:37	28:26:40	19522.512	2.054	6.141	10/01/2003 13:11	28:00:00	3491.354	0.981
195	STHTREES 5493.40	ST9		9/01/2003 9:11	12.623	10/01/2003 13:37	28:26:40	19515.465	2.38	6.013	10/01/2003 13:11	28:00:00	3490.621	1.036
196	STHTREES 6390.90	ST10		9/01/2003 9:11	10.891	10/01/2003 13:44	28:33:19	19502.416	5.118	5.13	10/01/2003 13:24	28:13:19	3488.937	3.196
197	STHTREES 7658.80	ST11		9/01/2003 9:11	9.127	10/01/2003 14:11	29:00:00	19444.434	1.308	4.2	10/01/2003 14:04	28:53:20	3481.751	0.515
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	8.909	10/01/2003 14:11	29:00:00	19401.766	1.418	4.116	10/01/2003 14:11	29:00:00	3476.784	0.581
199	STHTREES 8251.05			9/01/2003 9:11	8.909	10/01/2003 14:11	29:00:00	19313.184	1.398	4.116	10/01/2003 14:11	29:00:00	3468.092	0.578
200	STHTREES 9287.10	ST12		9/01/2003 9:11	8.364	10/01/2003 14:17	29:06:39	19278.371	1.677	3.903	10/01/2003 14:17	29:06:39	3464.191	0.733
201	STHTREES 11258.10	ST13		9/01/2003 9:11	7.175	10/01/2003 14:31	29:20:00	19217.818	1.469	3.425	10/01/2003 14:37	29:26:40	3458.047	0.631
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.179	10/01/2003 14:37	29:26:40	19174.09	1.514	3.075	10/01/2003 14:50	29:39:59	3454.656	0.638
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.213	10/01/2003 14:50	29:39:59	19129.465	0.997	2.817	10/01/2003 15:04	29:53:20	3451.31	0.37
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	19116.531	3.551	2.42	9/01/2003 9:11	0:00:00	3450.324	0.641
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	12.949	10/01/2003 13:37	28:26:40	103.343	1.115	10.477	9/01/2003 12:17	3:06:40	103.343	1.115
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	12.949	10/01/2003 13:37	28:26:40	103.021	2.758	6.142	10/01/2003 13:04	27:53:20	103.021	2.758
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	12.949	10/01/2003 13:37	28:26:40	102.664	0.358	6.141	10/01/2003 13:11	28:00:00	102.664	0.358
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	12.948	10/01/2003 13:37	28:26:40	117.901	0.203	6.141	10/01/2003 13:04	27:53:20	101.467	0.203
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	12.948	10/01/2003 13:37	28:26:40	179.655	0.105	6.141	10/01/2003 13:11	28:00:00	98.675	0.105
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.083	9/01/2003 12:37	3:26:39	150.253	0.973	13.083	9/01/2003 12:37	3:26:39	150.253	0.973
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	8.91	10/01/2003 14:11	29:00:00	150.126	3.502	5.761	9/01/2003 12:37	3:26:39	150.126	3.502
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	8.91	10/01/2003 14:11	29:00:00	149.25	0.229	4.116	10/01/2003 14:11	29:00:00	149.25	0.229
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	8.909	10/01/2003 14:11	29:00:00	161.88	0.087	4.116	10/01/2003 14:11	29:00:00	146.161	0.087
214	ELEVENMILECK 3887.00			9/01/2003 9:11	8.909	10/01/2003 14:11	29:00:00	235.803	0.086	4.116	10/01/2003 14:11	29:00:00	144.15	0.086
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	31.784	10/01/2003 10:50	25:39:59	78.542	1.454	18.817	10/01/2003 7:31	22:20:00	78.542	1.454
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	31.784	10/01/2003 10:50	25:39:59	284.54	11.497	18.817	10/01/2003 7:31	22:20:00	77.038	1.903
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	31.784	10/01/2003 10:50	25:39:59	1034.949	0.172	18.817	10/01/2003 7:24	22:13:19	191.38	0.172
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	31.784	10/01/2003 10:50	25:39:59	1117.444	0.166	18.816	10/01/2003 7:24	22:13:19	203.492	0.166

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL40

12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF NoFail				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
219	SPILLWAY 0.00			9/01/2003 9:11	50.315	10/01/2003 4:04	18:53:20	14255.113	0.66	50.315	10/01/2003 4:04	18:53:20	9862.215	0.391
220	SPILLWAY 300.00			9/01/2003 9:11	44.059	10/01/2003 8:04	22:53:20	9853.232	0.467	24.254	10/01/2003 5:17	20:06:39	9853.232	0.467

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	52.036	10/01/2003 12:04	26:53:20	24759.256	1.295	52.036	10/01/2003 12:04	26:53:20	24759.256	1.295
2	BOYNERIVER 100.00			9/01/2003 9:11	52.032	10/01/2003 11:50	26:39:59	99151.141	4.864	52.032	10/01/2003 11:50	26:39:59	14772.087	0.666
3	BOYNERIVER 100.00			9/01/2003 9:11	52.032	10/01/2003 11:50	26:39:59	83660.195	4.104	52.032	10/01/2003 11:50	26:39:59	82.972	0.005
4	BOYNERIVER 150.00			9/01/2003 9:11	52.032	10/01/2003 11:50	26:39:59	82518.742	5.788	52.032	10/01/2003 11:50	26:39:59	69.244	0.006
5	BOYNERIVER 350.00			9/01/2003 9:11	45.542	10/01/2003 15:57	30:46:40	77988.641	5.626	27.636	10/01/2003 12:37	27:26:40	44.666	1.267
6	BOYNERIVER 420.00			9/01/2003 9:11	45.616	10/01/2003 15:57	30:46:40	76895.961	5.314	27.636	10/01/2003 12:37	27:26:40	59.558	1.369
7	BOYNERIVER 420.00			9/01/2003 9:11	45.616	10/01/2003 15:57	30:46:40	77331.273	5.398	27.636	10/01/2003 12:37	27:26:40	14751.762	2.321
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	45.423	10/01/2003 15:57	30:46:40	75214.891	4.303	27.125	10/01/2003 12:50	27:39:59	14750.972	2.562
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	43.067	10/01/2003 15:57	30:46:40	74778.789	6.833	26.29	10/01/2003 12:50	27:39:59	14743.696	2.797
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	40.362	10/01/2003 16:17	31:06:39	74591.602	7.925	25.225	10/01/2003 13:11	28:00:00	14735.876	3.18
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	40.011	10/01/2003 16:17	31:06:39	74519.211	7.126	25.021	10/01/2003 13:11	28:00:00	14734.514	2.717
12	BOYNERIVER 2182.33			9/01/2003 9:11	40.011	10/01/2003 16:17	31:06:39	69347.266	6.272	25.021	10/01/2003 13:11	28:00:00	14686.614	2.699
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	38.853	10/01/2003 16:24	31:13:19	69284.477	6.432	24.525	10/01/2003 13:31	28:20:00	14684.185	2.892
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	38.403	10/01/2003 16:24	31:13:19	68985.117	3.391	24.098	10/01/2003 13:37	28:26:40	14676.511	1.582
15	BOYNERIVER 3120.26			9/01/2003 9:11	38.403	10/01/2003 16:24	31:13:19	68041.195	3.302	24.098	10/01/2003 13:37	28:26:40	14643.553	1.573
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	38.216	10/01/2003 16:31	31:20:00	67994.406	3.172	23.987	10/01/2003 13:44	28:33:19	14639.975	1.58
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	36.566	10/01/2003 16:37	31:26:40	67846.656	4.958	23.34	10/01/2003 14:04	28:53:20	14626.806	2.219
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	33.832	10/01/2003 18:24	33:13:19	67679.25	7.256	21.968	10/01/2003 14:44	29:33:19	14612.058	3.297
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	33.533	10/01/2003 18:37	33:26:39	67374.844	4.095	21.533	10/01/2003 15:04	29:53:20	14594.595	1.66
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	33.533	10/01/2003 18:37	33:26:39	64922.676	3.864	21.533	10/01/2003 15:04	29:53:20	14474.371	1.632
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	33.414	10/01/2003 18:37	33:26:39	64634.43	2.823	21.241	10/01/2003 15:11	30:00:00	14455.703	2.176
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	33.1	10/01/2003 18:44	33:33:20	63979.953	2.63	20.776	10/01/2003 15:31	30:20:00	14416.694	1.689
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	33.1	10/01/2003 18:44	33:33:20	62767.156	2.55	20.776	10/01/2003 15:31	30:20:00	14367.254	1.676
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	32.736	10/01/2003 18:51	33:40:00	62143.129	3.264	20.258	10/01/2003 15:50	30:39:59	14341.452	2.069
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	32.3	10/01/2003 19:04	33:53:20	61336.035	3.548	19.783	10/01/2003 16:11	31:00:00	14310.591	1.988
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	32.3	10/01/2003 19:04	33:53:20	30758.836	1.96	19.783	10/01/2003 16:11	31:00:00	9756.634	1.96
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	32.243	10/01/2003 19:04	33:53:20	30257.861	1.96	19.658	10/01/2003 16:17	31:06:39	9728.221	1.499
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	32.233	10/01/2003 19:04	33:53:20	29895.705	1.406	19.632	10/01/2003 16:24	31:13:19	9707.274	0.913
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	32.067	10/01/2003 19:04	33:53:20	29581.211	2.886	19.494	10/01/2003 16:24	31:13:19	9687.453	1.643
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	31.856	10/01/2003 19:11	34:00:00	29374.336	3.525	19.31	10/01/2003 16:31	31:20:00	9677.274	1.843
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	31.885	10/01/2003 19:11	34:00:00	29122.453	2.427	19.233	10/01/2003 16:31	31:20:00	9682.799	1.631
32	BOYNERIVER 10401.00			9/01/2003 9:11	31.706	10/01/2003 19:11	34:00:00	28993.471	3.267	19.104	10/01/2003 16:31	31:20:00	9760.047	1.737
33	BOYNERIVER 10402.80			9/01/2003 9:11	31.728	10/01/2003 19:24	34:13:19	28993.387	3.267	19.12	10/01/2003 16:31	31:20:00	9761.325	1.738
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	31.748	10/01/2003 18:44	33:33:20	28958.93	3.252	19.189	10/01/2003 16:11	31:00:00	9761.956	1.727
35	BOYNERIVER 10414.00			9/01/2003 9:11	31.706	10/01/2003 19:11	34:00:00	28953.777	3.25	19.104	10/01/2003 16:37	31:26:40	9760.628	1.725
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	31.678	10/01/2003 19:11	34:00:00	28873.928	2.946	19.051	10/01/2003 16:31	31:20:00	9669.408	1.605
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	31.562	10/01/2003 19:11	34:00:00	28759.662	3.49	18.955	10/01/2003 16:37	31:26:40	9647.738	1.964
38	BOYNERIVER 10832.90			9/01/2003 9:11	31.562	10/01/2003 19:11	34:00:00	48070.016	4.677	18.955	10/01/2003 16:37	31:26:40	13853.116	2.459
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	29.579	10/01/2003 19:17	34:06:39	48059.898	7.141	18.127	10/01/2003 16:44	31:33:19	13850.888	3.677
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	48046.477	7.506	16.84	10/01/2003 16:57	31:46:40	13850.043	3.709
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	28527.676	4.534	16.84	10/01/2003 16:57	31:46:40	9617.372	2.588
42	BOYNERIVER 12303.00			9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	28506.168	4.948	16.289	10/01/2003 16:57	31:46:40	9615.002	2.673
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	28248.928	4.819	16.289	10/01/2003 16:57	31:46:40	9602.98	2.664

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	25.519	10/01/2003 19:44	34:33:20	28244.311	5.055		16.069	10/01/2003 17:11	32:00:00	9602.72	2.759
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	24.657	10/01/2003 19:57	34:46:40	28232.617	5.27		15.526	10/01/2003 17:17	32:06:39	9602.206	3.005
46	BOYNERIVER 12785.40			9/01/2003 9:11	24.657	10/01/2003 19:57	34:46:40	27867.277	5.053		15.526	10/01/2003 17:17	32:06:39	9580.413	2.987
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	24.302	10/01/2003 19:57	34:46:40	27865.527	5.287		15.356	10/01/2003 17:17	32:06:39	9580.247	3.075
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	24.17	10/01/2003 19:57	34:46:40	27856.217	3.551		15.164	10/01/2003 17:24	32:13:19	9579.548	2.059
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	22.563	10/01/2003 20:11	35:00:00	27840.939	5.027		14.304	10/01/2003 17:37	32:26:39	9578.591	3.041
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	21.86	10/01/2003 20:17	35:06:39	27828.889	4.235		13.952	10/01/2003 17:44	32:33:20	9577.5	2.311
51	BOYNERIVER 14304.56			9/01/2003 9:11	21.86	10/01/2003 20:17	35:06:39	27523.566	4.138		13.952	10/01/2003 17:44	32:33:20	9553.063	2.3
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	21.638	10/01/2003 20:17	35:06:39	27522.518	3.89		13.855	10/01/2003 17:44	32:33:20	9553.005	2.096
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	21.188	10/01/2003 20:17	35:06:39	27518.451	2.876		13.502	10/01/2003 17:44	32:33:20	9552.418	1.889
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	20.084	10/01/2003 20:17	35:06:39	27516.059	4.114		12.874	10/01/2003 17:44	32:33:20	9551.743	2.783
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	19.639	10/01/2003 20:17	35:06:39	27511.621	2.608		12.441	10/01/2003 17:51	32:40:00	9551.522	2.12
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	19.369	10/01/2003 20:24	35:13:19	27506.266	2.079		12.286	10/01/2003 17:44	32:33:20	9551.26	1.428
57	BOYNERIVER 16062.90			9/01/2003 9:11	19.369	10/01/2003 20:24	35:13:19	25858.688	1.99		12.286	10/01/2003 17:44	32:33:20	9962.75	1.492
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	19.324	10/01/2003 20:24	35:13:19	25854.074	1.901		12.253	10/01/2003 17:51	32:40:00	9962.373	1.389
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	18.316	10/01/2003 20:30	35:19:59	25830.576	4.163		11.684	10/01/2003 17:51	32:40:00	9960.438	2.555
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	17.49	10/01/2003 20:30	35:19:59	25814.42	4.291		11.117	10/01/2003 17:57	32:46:40	9959.116	2.655
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	16.058	10/01/2003 20:44	35:33:20	25805.457	6.59		10.176	10/01/2003 18:17	33:06:39	9958.315	4.376
62	BOYNERIVER 17722.19			9/01/2003 9:11	16.058	10/01/2003 20:44	35:33:20	4559.29	2.072		10.176	10/01/2003 18:17	33:06:39	3936.47	2.072
63	BOYNERIVER 17874.50			9/01/2003 9:11	16.047	10/01/2003 20:44	35:33:20	4542.046	2.372		10.063	10/01/2003 18:17	33:06:39	3933.609	2.372
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	16.042	10/01/2003 20:44	35:33:20	4504.923	2.074		9.988	10/01/2003 18:17	33:06:39	3927.179	2.074
65	BOYNERIVER 18184.66			9/01/2003 9:11	16.042	10/01/2003 20:44	35:33:20	23290.236	5.599		9.988	10/01/2003 18:17	33:06:39	7654.39	3.273
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	15.574	10/01/2003 20:44	35:33:20	23289.324	5.034		9.722	10/01/2003 18:17	33:06:39	7654.305	2.788
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	14.153	10/01/2003 20:44	35:33:20	23289.008	5.878		9.081	10/01/2003 18:17	33:06:39	7654.167	3.12
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	14.139	10/01/2003 20:51	35:40:00	23288.18	3.295		8.946	10/01/2003 18:17	33:06:39	7653.958	1.898
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	13.735	10/01/2003 20:51	35:40:00	23285.176	2.403		8.524	10/01/2003 18:24	33:13:19	7653.667	1.844
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	12.8	10/01/2003 20:51	35:40:00	23282.98	4.023		7.989	10/01/2003 18:24	33:13:19	7653.509	2.509
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	12.386	10/01/2003 20:51	35:40:00	23280.301	2.794		7.505	10/01/2003 18:24	33:13:19	7653.33	2.223
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	12.167	10/01/2003 20:51	35:40:00	23280.387	2.697		7.373	10/01/2003 18:24	33:13:19	7653.332	1.882
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	11.248	10/01/2003 20:51	35:40:00	23280.428	3.702		6.676	10/01/2003 18:24	33:13:19	7653.333	2.86
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	9.819	10/01/2003 20:51	35:40:00	23280.4	7.019		5.834	10/01/2003 18:24	33:13:19	7653.331	4.286
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.198	10/01/2003 20:51	35:40:00	23280.221	4.193		5.179	10/01/2003 18:24	33:13:19	7653.322	2.652
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.063	10/01/2003 20:51	35:40:00	23279.887	4.621		4.116	10/01/2003 17:37	32:26:39	7653.316	2.598
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	23279.705	19.445		2.42	9/01/2003 9:11	0:00:00	7653.317	6.393
78	COOMALCK 0.00	C1		9/01/2003 9:11	38.419	10/01/2003 16:31	31:20:00	192.995	1.794		38.064	9/01/2003 12:37	3:26:39	192.995	1.794
79	COOMALCK 398.20	C2		9/01/2003 9:11	38.416	10/01/2003 16:31	31:20:00	192.915	2.341		33.385	9/01/2003 12:37	3:26:39	192.915	2.623
80	COOMALCK 794.20	C3		9/01/2003 9:11	38.413	10/01/2003 16:31	31:20:00	192.938	2.037		29.684	9/01/2003 12:44	3:33:20	192.938	10.628
81	COOMALCK 1209.50	C4		9/01/2003 9:11	38.414	10/01/2003 16:31	31:20:00	192.961	1.619		26.636	9/01/2003 12:44	3:33:20	192.961	2.09
82	COOMALCK 1813.30	C5		9/01/2003 9:11	38.41	10/01/2003 16:31	31:20:00	192.905	2.009		24.098	10/01/2003 13:37	28:26:40	192.905	2.009
83	COOMALCK 2352.80	C6		9/01/2003 9:11	38.408	10/01/2003 16:31	31:20:00	192.545	1.194		24.099	10/01/2003 13:50	28:39:59	234.76	1.194
84	COOMALCK 3112.20	C7		9/01/2003 9:11	38.404	10/01/2003 16:24	31:13:19	348.963	2.056		24.099	10/01/2003 13:50	28:39:59	359.574	2.056
85	COOMALCK 3751.30	C8		9/01/2003 9:11	38.404	10/01/2003 16:24	31:13:19	520.474	1.127		24.099	10/01/2003 13:37	28:26:40	284.108	1.127
86	COOMALCK 4222.50	C9		9/01/2003 9:11	38.403	10/01/2003 16:24	31:13:19	617.466	2.521		24.098	10/01/2003 13:37	28:26:40	294.222	2.521
87	COOMALCK 4305.00			9/01/2003 9:11	38.403	10/01/2003 16:24	31:13:19	625.572	31.086		24.098	10/01/2003 13:37	28:26:40	292.585	31.086
88	YUNKACK 0.00	Y1		9/01/2003 9:11	34.713	9/01/2003 11:44	2:33:20	73.421	1.459		34.713	9/01/2003 11:44	2:33:20	73.421	1.459

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
89	YUNKACK 574.20	Y2		9/01/2003 9:11	33.101	10/01/2003 18:44	33:33:20	73.556	11.307	26.994	9/01/2003 11:44	2:33:20	73.556	1.72
90	YUNKACK 948.90	Y3		9/01/2003 9:11	33.101	10/01/2003 18:44	33:33:20	72.961	1.592	22.403	9/01/2003 11:51	2:40:00	72.961	1.592
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	33.1	10/01/2003 18:44	33:33:20	99.425	1.458	20.776	10/01/2003 15:31	30:20:00	72.636	1.458
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	33.1	10/01/2003 18:44	33:33:20	216.111	1.18	20.776	10/01/2003 15:31	30:20:00	72.523	1.18
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	33.1	10/01/2003 18:44	33:33:20	414.599	1.377	20.776	10/01/2003 15:31	30:20:00	77.711	1.377
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	33.1	10/01/2003 18:44	33:33:20	540.761	38.583	20.776	10/01/2003 15:31	30:20:00	104.374	38.583
95	TUCKERGULLY 0.00			9/01/2003 9:11	40.089	10/01/2003 16:11	31:00:00	262.656	0.806	36.799	9/01/2003 12:24	3:13:20	262.656	0.806
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	40.066	10/01/2003 16:17	31:06:39	258.951	2.139	34.682	9/01/2003 12:24	3:13:20	258.951	2.139
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	40.07	10/01/2003 16:17	31:06:39	258.469	1.88	29.736	9/01/2003 12:37	3:26:39	258.469	1.88
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	40.058	10/01/2003 16:17	31:06:39	258.454	2.359	26.512	9/01/2003 12:37	3:26:39	258.454	2.359
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	40.042	10/01/2003 16:17	31:06:39	306.802	2.089	25.028	10/01/2003 13:37	28:26:40	258.354	2.089
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	40.033	10/01/2003 16:17	31:06:39	422.672	1.696	25.036	10/01/2003 13:17	28:06:39	257.794	1.696
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	40.025	10/01/2003 16:17	31:06:39	526.867	1.892	25.025	10/01/2003 13:37	28:26:40	257.525	1.892
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	40.019	10/01/2003 16:17	31:06:39	714.334	2.443	25.022	10/01/2003 13:24	28:13:19	257.485	2.443
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	40.018	10/01/2003 16:17	31:06:39	810.485	2.827	25.022	10/01/2003 13:24	28:13:19	257.359	2.827
104	TUCKERGULLY 5765.40			9/01/2003 9:11	40.018	10/01/2003 16:17	31:06:39	1406.616	2.835	25.022	10/01/2003 13:24	28:13:19	258.264	2.835
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	40.014	10/01/2003 16:17	31:06:39	1613.698	1.364	25.02	10/01/2003 13:31	28:20:00	252.999	1.364
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	40.011	10/01/2003 16:17	31:06:39	1764.123	5.895	25.021	10/01/2003 13:11	28:00:00	260.268	5.895
107	TUCKERTRIB 0.00			9/01/2003 9:11	40.022	10/01/2003 16:24	31:13:19	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	40.023	10/01/2003 16:24	31:13:19	24.984	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.535
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	40.025	10/01/2003 16:24	31:13:19	85.928	6.477	27.265	9/01/2003 9:11	0:00:00	14.056	6.642
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	40.025	10/01/2003 16:24	31:13:19	193.214	1.27	25.04	10/01/2003 12:57	27:46:40	41.385	1.269
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	40.024	10/01/2003 16:24	31:13:19	301.46	0.316	25.027	10/01/2003 13:04	27:53:20	48.262	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	40.024	10/01/2003 16:24	31:13:19	384.813	0.652	25.033	10/01/2003 13:17	28:06:39	56.979	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	40.018	10/01/2003 16:24	31:13:19	500.914	0.387	25.033	10/01/2003 13:17	28:06:39	71.602	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	40.018	10/01/2003 16:17	31:06:39	596.131	6.064	25.022	10/01/2003 13:24	28:13:19	91.911	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	31.602	10/01/2003 19:11	34:00:00	530.655	0.929	18.979	10/01/2003 16:44	31:33:19	530.655	0.929
116	STATIONCK 684.50	S2		9/01/2003 9:11	31.602	10/01/2003 19:11	34:00:00	521.834	1.136	18.978	10/01/2003 16:37	31:26:40	521.834	1.136
117	STATIONCK 1599.70	S3		9/01/2003 9:11	31.602	10/01/2003 19:11	34:00:00	1066.51	1.063	18.979	10/01/2003 16:37	31:26:40	516.775	1.063
118	STATIONCK 2431.30	S4		9/01/2003 9:11	31.601	10/01/2003 19:11	34:00:00	1648.387	1.019	18.978	10/01/2003 16:37	31:26:40	512.387	1.019
119	STATIONCK 3013.70	S5		9/01/2003 9:11	31.601	10/01/2003 19:11	34:00:00	2114.628	0.803	18.978	10/01/2003 16:37	31:26:40	505.752	0.803
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	31.6	10/01/2003 19:11	34:00:00	2655.902	1.002	18.978	10/01/2003 16:37	31:26:40	503.422	1.002
121	STATIONCK 4481.70	S7		9/01/2003 9:11	31.598	10/01/2003 19:11	34:00:00	3105.562	1.112	18.978	10/01/2003 16:37	31:26:40	495.673	1.112
122	STATIONCK 5140.80	S8		9/01/2003 9:11	31.597	10/01/2003 19:11	34:00:00	3545.072	0.601	18.978	10/01/2003 16:37	31:26:40	545.459	0.601
123	STATIONCK 5918.90	S9		9/01/2003 9:11	31.596	10/01/2003 19:11	34:00:00	4112.753	0.51	18.977	10/01/2003 16:37	31:26:40	675.931	0.51
124	STATIONCK 6575.50	S10		9/01/2003 9:11	31.595	10/01/2003 19:11	34:00:00	4504.932	0.45	18.977	10/01/2003 16:37	31:26:40	755.899	0.45
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	31.594	10/01/2003 19:11	34:00:00	4697.4	0.46	18.976	10/01/2003 16:37	31:26:40	788.29	0.46
126	STATIONCK 6954.40			9/01/2003 9:11	31.594	10/01/2003 19:11	34:00:00	25268.871	0.85	18.976	10/01/2003 16:37	31:26:40	4593.301	0.46
127	STATIONCK 7691.00	S11		9/01/2003 9:11	31.562	10/01/2003 19:11	34:00:00	25408.049	0.958	18.955	10/01/2003 16:37	31:26:40	4619.691	0.958
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.288	9/01/2003 12:11	3:00:00	241.972	1.112	34.288	9/01/2003 12:11	3:00:00	241.972	1.112
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.39	9/01/2003 12:17	3:06:40	240.895	1.179	29.39	9/01/2003 12:17	3:06:40	240.895	1.179
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.141	9/01/2003 12:17	3:06:40	240.639	2.8	27.141	9/01/2003 12:17	3:06:40	240.639	1.574
131	MACHINECK 1699.10	M4		9/01/2003 9:11	24.66	10/01/2003 19:57	34:46:40	240.02	0.954	23.693	9/01/2003 12:30	3:19:59	240.02	0.954
132	MACHINECK 2214.80	M5		9/01/2003 9:11	24.66	10/01/2003 19:57	34:46:40	239.842	4.258	21.217	9/01/2003 12:30	3:19:59	239.842	2.282
133	MACHINECK 2730.60	M6		9/01/2003 9:11	24.66	10/01/2003 19:57	34:46:40	239.721	1.465	17.611	9/01/2003 12:37	3:26:39	239.721	1.465



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
134	MACHINECK 3140.90	M7		9/01/2003 9:11	24.659	10/01/2003 19:57	34:46:40	239.717	1.835	15.602	9/01/2003 12:37	3:26:39	239.717	1.835
135	MACHINECK 3611.90	M8		9/01/2003 9:11	24.659	10/01/2003 19:57	34:46:40	239.532	1.078	15.526	10/01/2003 17:17	32:06:39	239.532	1.078
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	24.659	10/01/2003 19:57	34:46:40	238.581	19.446	15.526	10/01/2003 17:17	32:06:39	238.581	1.637
137	MACHINECK 5099.90	M10		9/01/2003 9:11	24.658	10/01/2003 19:57	34:46:40	389.007	2.28	15.526	10/01/2003 17:17	32:06:39	238.132	2.28
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	24.658	10/01/2003 19:57	34:46:40	529.694	0.927	15.526	10/01/2003 17:17	32:06:39	235.45	0.927
139	MACHINECK 6711.00	M12		9/01/2003 9:11	24.657	10/01/2003 19:57	34:46:40	650.954	1.437	15.526	10/01/2003 17:17	32:06:39	223.764	1.437
140	O'LSTATION 0.00			9/01/2003 9:11	32.3	10/01/2003 19:04	33:53:20	30890.453	1.676	19.783	10/01/2003 16:11	31:00:00	4627.592	1.39
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	32.263	10/01/2003 19:04	33:53:20	30553.373	1.664	19.725	10/01/2003 16:11	31:00:00	4618.535	1.664
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	32.134	10/01/2003 19:04	33:53:20	29589.244	5.081	19.541	10/01/2003 16:24	31:13:19	4593.358	5.075
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	31.892	10/01/2003 19:11	34:00:00	29103.525	3.098	19.307	10/01/2003 16:31	31:20:00	4580.671	3.098
144	O'LSTATION 2385.50			9/01/2003 9:11	31.671	10/01/2003 19:11	34:00:00	28863.84	3.592	19.081	10/01/2003 16:31	31:20:00	4573.805	2.153
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	31.594	10/01/2003 19:11	34:00:00	28762.137	3.661	18.976	10/01/2003 16:37	31:26:40	4570.565	2.676
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.761	9/01/2003 11:44	2:33:20	108.123	0.981	26.761	9/01/2003 11:44	2:33:20	108.123	0.981
147	WURDONGCK 616.40	W2		9/01/2003 9:11	21.863	10/01/2003 20:11	35:00:00	107.115	2.564	21.557	9/01/2003 11:51	2:40:00	107.115	0.98
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	21.862	10/01/2003 20:17	35:06:39	106.677	1.242	16.472	9/01/2003 12:04	2:53:19	106.677	1.202
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	21.862	10/01/2003 20:17	35:06:39	103.046	0.921	13.96	9/01/2003 12:24	3:13:20	103.046	0.921
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	21.862	10/01/2003 20:17	35:06:39	270.004	3.336	13.952	10/01/2003 17:37	32:26:39	100.263	0.747
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	21.861	10/01/2003 20:17	35:06:39	721.469	0.365	13.952	10/01/2003 17:37	32:26:39	99.847	0.365
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	21.86	10/01/2003 20:17	35:06:39	1155.174	0.902	13.952	10/01/2003 17:44	32:33:20	202.283	0.902
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	65.279	6.261	16.293	10/01/2003 17:11	32:00:00	29.946	6.257
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	129.392	0.226	16.289	10/01/2003 17:11	32:00:00	34.221	0.226
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	223.987	0.448	16.289	10/01/2003 17:04	31:53:20	24.686	0.448
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	285.276	1.359	16.289	10/01/2003 17:04	31:53:20	40.728	1.359
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	25.943	10/01/2003 19:44	34:33:20	349.854	2.993	16.289	10/01/2003 16:57	31:46:40	60.768	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	26.923	10/01/2003 19:37	34:26:39	58.787	10.48	16.847	10/01/2003 17:11	32:00:00	49.264	10.503
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	128.34	0.641	16.84	10/01/2003 16:44	31:33:19	45.582	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	238.466	0.519	16.84	10/01/2003 17:04	31:53:20	34.895	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	377.243	1.329	16.84	10/01/2003 16:57	31:46:40	58.667	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	26.923	10/01/2003 19:30	34:19:59	19550.74	6.487	16.84	10/01/2003 16:57	31:46:40	4235.449	2.92
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	22.075	10/01/2003 19:44	34:33:20	19549	8.655	14.448	10/01/2003 16:57	31:46:40	4235.328	3.926
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	20.381	10/01/2003 20:04	34:53:20	19543.332	4.115	13.511	10/01/2003 17:17	32:06:39	4234.618	1.99
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	19.465	10/01/2003 20:17	35:06:39	19504.418	3.169	12.461	10/01/2003 17:44	32:33:20	4232.212	2.731
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	19.369	10/01/2003 20:24	35:13:19	19462.379	1.684	12.287	10/01/2003 17:44	32:33:20	4229.478	0.949
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	19.369	10/01/2003 20:24	35:13:19	2344.731	0.487	12.287	10/01/2003 17:44	32:33:20	839.955	0.487
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	19.369	10/01/2003 20:24	35:13:19	2273.251	0.708	12.286	10/01/2003 17:44	32:33:20	829.945	0.708
171	O'LAND01 0.00			9/01/2003 9:11	19.369	10/01/2003 20:24	35:13:19	21011.039	2.77	12.287	10/01/2003 17:44	32:33:20	3812.931	1.308
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	18.655	10/01/2003 20:24	35:13:19	21000.215	2.986	11.904	10/01/2003 17:51	32:40:00	3812.246	1.413
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	18.117	10/01/2003 20:30	35:19:59	20978.355	2.435	11.363	10/01/2003 18:04	32:53:20	3810.703	1.383
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	17.909	10/01/2003 20:30	35:19:59	20964.268	2.086	11.065	10/01/2003 18:04	32:53:20	3809.369	1.125
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	17.612	10/01/2003 20:37	35:26:39	20936.67	1.775	10.762	10/01/2003 18:11	33:00:00	3806.724	0.863
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	17.397	10/01/2003 20:37	35:26:39	20909.314	1.608	10.605	10/01/2003 18:11	33:00:00	3804.444	0.738
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	16.821	10/01/2003 20:44	35:33:20	20890.432	3.043	10.264	10/01/2003 18:17	33:06:39	3803.388	2.102
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	16.822	10/01/2003 20:44	35:33:20	68.321	0.336	10.264	10/01/2003 18:17	33:06:39	68.321	0.336

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
179	CATTLECK 743.60	CC2		9/01/2003 9:11	16.822	10/01/2003 20:44	35:33:20	124.029	0.907	10.264	10/01/2003 18:17	33:06:39	67.385	0.907
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	16.821	10/01/2003 20:44	35:33:20	229.64	0.875	10.264	10/01/2003 18:17	33:06:39	63.965	0.875
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	16.821	10/01/2003 20:44	35:33:20	347.195	0.208	10.264	10/01/2003 18:17	33:06:39	61.678	0.208
182	CATTLECK 1994.43			9/01/2003 9:11	16.821	10/01/2003 20:44	35:33:20	20818.152	2.032	10.264	10/01/2003 18:17	33:06:39	3801.898	0.802
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	16.48	10/01/2003 20:44	35:33:20	20815.99	3.082	10.133	10/01/2003 18:17	33:06:39	3801.905	1.697
184	CATTLECK 2335.00			9/01/2003 9:11	16.042	10/01/2003 20:44	35:33:20	20811.973	3.306	9.988	10/01/2003 18:17	33:06:39	3801.917	1.731
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	16.058	10/01/2003 20:44	35:33:20	23372.188	1.836	10.176	10/01/2003 18:17	33:06:39	6098.767	1.836
186	STHTREES 851.80	ST2		9/01/2003 9:11	15.277	10/01/2003 20:57	35:46:40	23247.58	1.579	9.058	10/01/2003 18:44	33:33:20	6088.396	1.064
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	15.027	10/01/2003 20:57	35:46:40	23145.793	1.61	8.767	10/01/2003 18:57	33:46:40	6077.693	1.296
188	STHTREES 2361.30	ST4		9/01/2003 9:11	14.811	10/01/2003 20:57	35:46:40	23048.436	1.411	8.537	10/01/2003 19:04	33:53:20	6066.619	0.843
189	STHTREES 2829.50	ST5		9/01/2003 9:11	14.758	10/01/2003 20:57	35:46:40	22989.99	1.036	8.461	10/01/2003 19:04	33:53:20	6059.331	0.681
190	STHTREES 3773.50	ST6		9/01/2003 9:11	14.581	10/01/2003 21:04	35:53:20	22898.535	1.194	8.319	10/01/2003 19:04	33:53:20	6047.092	0.686
191	STHTREES 4171.60	ST7		9/01/2003 9:11	14.43	10/01/2003 21:04	35:53:20	22875.996	1.613	8.24	10/01/2003 19:11	34:00:00	6044.044	0.839
192	STHTREES 4595.40	ST8		9/01/2003 9:11	14.151	10/01/2003 21:04	35:53:20	22862.791	2.188	8.09	10/01/2003 19:11	34:00:00	6041.738	1.214
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	13.823	10/01/2003 21:04	35:53:20	22845.986	2.183	7.869	10/01/2003 19:17	34:06:39	6039.925	1.273
194	STHTREES 5122.39			9/01/2003 9:11	13.823	10/01/2003 21:04	35:53:20	22805.318	2.168	7.869	10/01/2003 19:17	34:06:39	6036.354	1.27
195	STHTREES 5493.40	ST9		9/01/2003 9:11	13.466	10/01/2003 21:11	36:00:00	22800.453	2.549	7.707	10/01/2003 19:17	34:06:39	6035.426	1.332
196	STHTREES 6390.90	ST10		9/01/2003 9:11	11.619	10/01/2003 21:11	36:00:00	22789.834	5.406	6.636	10/01/2003 19:24	34:13:19	6033.512	3.62
197	STHTREES 7658.80	ST11		9/01/2003 9:11	9.773	10/01/2003 21:30	36:19:59	22742.48	1.416	5.399	10/01/2003 20:04	34:53:20	6025.272	0.694
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	9.535	10/01/2003 21:37	36:26:39	22707.852	1.525	5.281	10/01/2003 20:11	35:00:00	6019.005	0.774
199	STHTREES 8251.05			9/01/2003 9:11	9.535	10/01/2003 21:37	36:26:39	22631.943	1.512	5.281	10/01/2003 20:11	35:00:00	6007.668	0.771
200	STHTREES 9287.10	ST12		9/01/2003 9:11	8.942	10/01/2003 21:44	36:33:20	22604.914	1.808	4.986	10/01/2003 20:17	35:06:39	6001.965	0.954
201	STHTREES 11258.10	ST13		9/01/2003 9:11	7.659	10/01/2003 21:51	36:40:00	22556.861	1.581	4.327	10/01/2003 20:37	35:26:39	5991.948	0.832
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.58	10/01/2003 21:57	36:46:40	22519.668	1.602	3.802	10/01/2003 20:51	35:40:00	5985.326	0.878
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.483	10/01/2003 22:04	36:53:20	22488.969	1.105	3.349	10/01/2003 21:04	35:53:20	5975.89	0.529
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	22481.447	4.176	2.42	9/01/2003 9:11	0:00:00	5972.025	1.109
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	13.824	10/01/2003 21:04	35:53:20	121.234	1.153	10.602	9/01/2003 11:44	2:33:20	121.234	1.153
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	13.824	10/01/2003 21:04	35:53:20	120.952	1.891	7.869	10/01/2003 19:17	34:06:39	120.952	1.891
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	13.824	10/01/2003 21:04	35:53:20	120.632	0.402	7.869	10/01/2003 19:17	34:06:39	120.632	0.402
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	13.824	10/01/2003 21:04	35:53:20	128.262	0.238	7.869	10/01/2003 19:17	34:06:39	119.164	0.238
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	13.823	10/01/2003 21:04	35:53:20	193.339	0.124	7.869	10/01/2003 19:17	34:06:39	116.955	0.124
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.129	9/01/2003 11:51	2:40:00	162.999	1.041	13.129	9/01/2003 11:51	2:40:00	162.999	1.041
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	9.536	10/01/2003 21:37	36:26:39	162.311	3.568	5.874	9/01/2003 11:57	2:46:39	162.311	3.568
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	9.536	10/01/2003 21:37	36:26:39	161.339	0.246	5.281	10/01/2003 20:11	35:00:00	161.339	0.246
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	9.536	10/01/2003 21:37	36:26:39	183.176	0.095	5.281	10/01/2003 20:11	35:00:00	159.464	0.095
214	ELEVENMILECK 3887.00			9/01/2003 9:11	9.535	10/01/2003 21:37	36:26:39	261.11	0.094	5.281	10/01/2003 20:11	35:00:00	157.956	0.094
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	33.533	10/01/2003 18:37	33:26:39	87.499	1.841	21.533	10/01/2003 15:04	29:53:20	87.499	1.841
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	33.533	10/01/2003 18:37	33:26:39	299.384	11.499	21.533	10/01/2003 15:04	29:53:20	97.741	1.955
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	33.533	10/01/2003 18:37	33:26:39	1084.221	0.212	21.533	10/01/2003 15:04	29:53:20	291.853	0.212
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	33.533	10/01/2003 18:37	33:26:39	1171.476	0.204	21.533	10/01/2003 15:04	29:53:20	301.063	0.204
219	SPILLWAY 0.00			9/01/2003 9:11	52.032	10/01/2003 11:50	26:39:59	16817.971	0.711	52.032	10/01/2003 11:50	26:39:59	14760.147	0.548
220	SPILLWAY 300.00			9/01/2003 9:11	45.616	10/01/2003 15:57	30:46:40	14751.375	0.602	27.636	10/01/2003 12:37	27:26:40	14751.375	0.602

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	52.29	11/01/2003 6:30	45:19:59	18735.973	0.954	52.29	11/01/2003 6:30	45:19:59	18735.973	0.954
2	BOYNERIVER 100.00			9/01/2003 9:11	52.283	11/01/2003 6:17	45:06:39	101092.141	4.916	52.283	11/01/2003 6:17	45:06:39	15508.268	0.695
3	BOYNERIVER 100.00			9/01/2003 9:11	52.283	11/01/2003 6:17	45:06:39	85205.672	4.149	52.283	11/01/2003 6:17	45:06:39	82.972	0.005
4	BOYNERIVER 150.00			9/01/2003 9:11	52.283	11/01/2003 6:17	45:06:39	84056.773	5.834	52.283	11/01/2003 6:17	45:06:39	69.244	0.006
5	BOYNERIVER 350.00			9/01/2003 9:11	45.983	11/01/2003 10:24	49:13:19	79493.641	5.668	28.258	11/01/2003 7:11	46:00:00	44.671	1.267
6	BOYNERIVER 420.00			9/01/2003 9:11	46.05	11/01/2003 10:24	49:13:19	78408.039	5.346	28.258	11/01/2003 7:11	46:00:00	59.589	1.405
7	BOYNERIVER 420.00			9/01/2003 9:11	46.05	11/01/2003 10:24	49:13:19	79195.156	5.433	28.258	11/01/2003 7:11	46:00:00	15502.697	2.342
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	45.871	11/01/2003 10:24	49:13:19	76975.617	4.31	27.761	11/01/2003 7:04	45:53:20	15501.956	2.543
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	43.52	11/01/2003 10:30	49:19:59	76646.391	6.913	26.924	11/01/2003 7:30	46:19:59	15500.436	2.821
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	40.816	11/01/2003 10:44	49:33:20	76472.93	8.021	25.871	11/01/2003 7:30	46:19:59	15500.888	3.167
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	40.476	11/01/2003 10:51	49:40:00	76393.047	7.214	25.669	11/01/2003 7:44	46:33:20	15501.536	2.732
12	BOYNERIVER 2182.33			9/01/2003 9:11	40.476	11/01/2003 10:51	49:40:00	71246.445	6.348	25.669	11/01/2003 7:44	46:33:20	15530.531	2.733
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	39.313	11/01/2003 10:57	49:46:40	71198.109	6.507	25.18	11/01/2003 7:57	46:46:40	15529.261	2.888
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	38.89	11/01/2003 11:04	49:53:20	70963.008	3.421	24.767	11/01/2003 8:04	46:53:20	15530.087	1.573
15	BOYNERIVER 3120.26			9/01/2003 9:11	38.89	11/01/2003 11:04	49:53:20	69988.914	3.333	24.767	11/01/2003 8:04	46:53:20	15534.086	1.573
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	38.708	11/01/2003 11:04	49:53:20	69913.477	3.2	24.659	11/01/2003 8:04	46:53:20	15532.986	1.572
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	37.061	11/01/2003 11:17	50:06:39	69790.102	5.011	24.016	11/01/2003 8:04	46:53:20	15529.684	2.216
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	34.476	11/01/2003 12:51	51:40:00	69656.242	7.303	22.68	11/01/2003 8:44	47:33:20	15527.424	3.184
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	34.192	11/01/2003 13:04	51:53:20	69384.195	4.116	22.263	11/01/2003 8:57	47:46:40	15523.242	1.627
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	34.192	11/01/2003 13:04	51:53:20	66888.25	3.891	22.263	11/01/2003 8:57	47:46:40	15501.553	1.621
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	34.08	11/01/2003 13:11	52:00:00	66568.75	2.822	21.995	11/01/2003 9:04	47:53:20	15497.363	2.089
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	33.773	11/01/2003 13:17	52:06:39	65924.414	2.625	21.574	11/01/2003 9:17	48:06:39	15489.384	1.603
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	33.773	11/01/2003 13:17	52:06:39	64736.844	2.548	21.574	11/01/2003 9:17	48:06:39	15560.302	1.649
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	33.42	11/01/2003 13:30	52:19:59	64076.84	3.198	21.077	11/01/2003 9:30	48:19:59	15553.246	2.007
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	32.993	11/01/2003 13:37	52:26:39	63261.875	3.514	20.615	11/01/2003 9:44	48:33:20	15545.243	1.941
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	32.993	11/01/2003 13:37	52:26:39	31292.129	1.917	20.615	11/01/2003 9:44	48:33:20	10073.34	1.917
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	32.938	11/01/2003 13:37	52:26:39	30778.615	1.896	20.5	11/01/2003 9:51	48:40:00	10066.541	1.468
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	32.93	11/01/2003 13:37	52:26:39	30432.994	1.384	20.477	11/01/2003 9:51	48:40:00	10061.766	0.874
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	32.761	11/01/2003 13:37	52:26:39	30133.729	2.842	20.341	11/01/2003 9:57	48:46:40	10057.204	1.573
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	32.548	11/01/2003 13:37	52:26:39	29937.268	3.472	20.159	11/01/2003 10:04	48:53:20	10054.836	1.776
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	32.582	11/01/2003 13:37	52:26:39	29708.729	2.373	20.093	11/01/2003 10:04	48:53:20	10071.892	1.56
32	BOYNERIVER 10401.00			9/01/2003 9:11	32.398	11/01/2003 13:44	52:33:20	29733.775	3.226	19.964	11/01/2003 10:04	48:53:20	10166.495	1.667
33	BOYNERIVER 10402.80			9/01/2003 9:11	32.411	11/01/2003 14:04	52:53:20	29734.707	3.226	19.984	11/01/2003 10:04	48:53:20	10168.055	1.668
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	32.482	11/01/2003 13:24	52:13:19	29698.574	3.212	20.076	11/01/2003 9:44	48:33:20	10163.242	1.658
35	BOYNERIVER 10414.00			9/01/2003 9:11	32.396	11/01/2003 13:44	52:33:20	29692.271	3.21	19.965	11/01/2003 10:17	49:06:39	10161.319	1.656
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	32.37	11/01/2003 13:44	52:33:20	29433.234	2.904	19.915	11/01/2003 10:11	49:00:00	10080.696	1.533
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	32.252	11/01/2003 13:44	52:33:20	29331.459	3.429	19.82	11/01/2003 10:11	49:00:00	10060.238	1.874
38	BOYNERIVER 10832.90			9/01/2003 9:11	32.252	11/01/2003 13:44	52:33:20	50517.98	4.794	19.82	11/01/2003 10:11	49:00:00	15430.568	2.591
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	30.199	11/01/2003 13:51	52:40:00	50506.152	7.324	18.934	11/01/2003 10:11	49:00:00	15428.8	3.878
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	27.464	11/01/2003 14:04	52:53:20	50492.215	7.7	17.577	11/01/2003 10:24	49:13:19	15429.112	3.918
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	27.464	11/01/2003 14:04	52:53:20	29791.742	4.609	17.577	11/01/2003 10:24	49:13:19	10503.647	2.672
42	BOYNERIVER 12303.00			9/01/2003 9:11	26.456	11/01/2003 14:17	53:06:39	29773.895	5.036	17.009	11/01/2003 10:24	49:13:19	10503.211	2.774

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	26.456	11/01/2003 14:17	53:06:39	29534.604	4.925	17.009	11/01/2003 10:24	49:13:19	10498.966	2.77
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	26.018	11/01/2003 14:17	53:06:39	29529.883	5.166	16.78	11/01/2003 10:24	49:13:19	10498.894	2.873
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	25.141	11/01/2003 14:24	53:13:19	29518.014	5.354	16.195	11/01/2003 10:37	49:26:39	10498.282	3.123
46	BOYNERIVER 12785.40			9/01/2003 9:11	25.141	11/01/2003 14:24	53:13:19	29178.629	5.168	16.195	11/01/2003 10:37	49:26:39	10495.725	3.116
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	24.778	11/01/2003 14:30	53:19:59	29177.1	5.403	15.998	11/01/2003 10:44	49:33:20	10495.873	3.214
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	24.654	11/01/2003 14:30	53:19:59	29169.021	3.636	15.781	11/01/2003 10:30	49:19:59	10495.697	2.151
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	22.999	11/01/2003 14:37	53:26:39	29155.086	5.139	14.883	11/01/2003 10:51	49:40:00	10496.522	3.15
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	22.277	11/01/2003 14:44	53:33:20	29144.783	4.344	14.517	11/01/2003 10:57	49:46:40	10496.149	2.424
51	BOYNERIVER 14304.56			9/01/2003 9:11	22.277	11/01/2003 14:44	53:33:20	28862.717	4.255	14.517	11/01/2003 10:57	49:46:40	10501.845	2.424
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	22.047	11/01/2003 14:51	53:40:00	28861.805	4.005	14.415	11/01/2003 10:57	49:46:40	10501.819	2.216
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	21.603	11/01/2003 14:51	53:40:00	28857.342	2.935	14.054	11/01/2003 10:57	49:46:40	10501.444	1.964
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	20.473	11/01/2003 14:51	53:40:00	28853.916	4.198	13.4	11/01/2003 11:04	49:53:20	10501.198	2.873
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	20.044	11/01/2003 14:51	53:40:00	28850.309	2.639	12.97	11/01/2003 11:04	49:53:20	10501.229	2.153
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	19.772	11/01/2003 14:51	53:40:00	28845.926	2.118	12.812	11/01/2003 11:04	49:53:20	10500.965	1.47
57	BOYNERIVER 16062.90			9/01/2003 9:11	19.772	11/01/2003 14:51	53:40:00	26919.809	2.008	12.812	11/01/2003 11:04	49:53:20	10860.921	1.521
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	19.727	11/01/2003 14:51	53:40:00	26915.746	1.92	12.779	11/01/2003 11:04	49:53:20	10860.835	1.418
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	18.699	11/01/2003 14:57	53:46:40	26895.133	4.239	12.186	11/01/2003 11:11	50:00:00	10860.357	2.662
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	17.863	11/01/2003 15:04	53:53:20	26880.58	4.365	11.6	11/01/2003 11:17	50:06:39	10859.942	2.761
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	16.408	11/01/2003 15:17	54:06:39	26871.137	6.657	10.615	11/01/2003 11:30	50:19:59	10859.704	4.527
62	BOYNERIVER 17722.19			9/01/2003 9:11	16.408	11/01/2003 15:17	54:06:39	4442.245	2.034	10.615	11/01/2003 11:30	50:19:59	3907.245	2.034
63	BOYNERIVER 17874.50			9/01/2003 9:11	16.399	11/01/2003 15:17	54:06:39	4421.88	2.325	10.511	11/01/2003 11:30	50:19:59	3906.841	2.325
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	16.395	11/01/2003 15:17	54:06:39	4388.771	2.034	10.445	11/01/2003 11:30	50:19:59	3906.01	2.034
65	BOYNERIVER 18184.66			9/01/2003 9:11	16.395	11/01/2003 15:17	54:06:39	24550.201	5.752	10.445	11/01/2003 11:30	50:19:59	8467.56	3.433
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	15.913	11/01/2003 15:17	54:06:39	24549.564	5.184	10.165	11/01/2003 11:30	50:19:59	8467.525	2.932
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	14.441	11/01/2003 15:17	54:06:39	24548.518	6.057	9.475	11/01/2003 11:30	50:19:59	8467.474	3.304
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	14.437	11/01/2003 15:17	54:06:39	24546.658	3.383	9.343	11/01/2003 11:37	50:26:39	8467.408	1.993
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	14.038	11/01/2003 15:17	54:06:39	24544.264	2.44	8.918	11/01/2003 11:37	50:26:39	8467.321	1.877
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	13.076	11/01/2003 15:24	54:13:19	24542.834	4.122	8.354	11/01/2003 11:37	50:26:39	8467.258	2.617
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	12.676	11/01/2003 15:24	54:13:19	24540.736	2.82	7.865	11/01/2003 11:37	50:26:39	8467.192	2.27
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	12.447	11/01/2003 15:24	54:13:19	24539.602	2.751	7.728	11/01/2003 11:37	50:26:39	8467.188	1.934
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	11.521	11/01/2003 15:24	54:13:19	24538.988	3.745	7.007	11/01/2003 11:37	50:26:39	8467.179	2.923
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	10.084	11/01/2003 15:24	54:13:19	24539.234	7.137	6.076	11/01/2003 11:37	50:26:39	8467.176	4.584
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.379	11/01/2003 15:24	54:13:19	24539.48	4.296	5.364	11/01/2003 11:37	50:26:39	8467.165	2.776
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.181	11/01/2003 15:24	54:13:19	24539.6	4.744	4.168	11/01/2003 11:37	50:26:39	8467.146	2.823
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	24539.623	20.497	2.42	9/01/2003 9:11	0:00:00	8467.145	7.072
78	COOMALCK 0.00	C1		9/01/2003 9:11	38.903	11/01/2003 10:57	49:46:40	137.394	1.711	37.74	9/01/2003 11:44	2:33:20	137.394	1.711
79	COOMALCK 398.20	C2		9/01/2003 9:11	38.903	11/01/2003 10:57	49:46:40	137.248	2.327	33.058	9/01/2003 11:44	2:33:20	137.248	2.786
80	COOMALCK 794.20	C3		9/01/2003 9:11	38.9	11/01/2003 10:57	49:46:40	137.308	1.431	29.377	9/01/2003 11:51	2:40:00	137.308	10.713
81	COOMALCK 1209.50	C4		9/01/2003 9:11	38.895	11/01/2003 10:57	49:46:40	156.056	1.435	27.551	11/01/2003 18:51	57:40:00	254.069	1.987
82	COOMALCK 1813.30	C5		9/01/2003 9:11	38.891	11/01/2003 10:57	49:46:40	275.663	1.77	24.767	11/01/2003 7:57	46:46:40	535.115	1.77
83	COOMALCK 2352.80	C6		9/01/2003 9:11	38.892	11/01/2003 11:04	49:53:20	548.262	1.035	24.767	11/01/2003 7:44	46:33:20	951.3	1.035
84	COOMALCK 3112.20	C7		9/01/2003 9:11	38.892	11/01/2003 11:04	49:53:20	797.014	1.792	24.766	11/01/2003 7:44	46:33:20	1449.395	1.792
85	COOMALCK 3751.30	C8		9/01/2003 9:11	38.891	11/01/2003 11:04	49:53:20	1257.906	0.978	24.767	11/01/2003 7:51	46:40:00	1009.253	0.978
86	COOMALCK 4222.50	C9		9/01/2003 9:11	38.89	11/01/2003 11:04	49:53:20	1328.138	2.462	24.767	11/01/2003 7:57	46:46:40	648.007	2.462

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
87	COOMALCK 4305.00			9/01/2003 9:11	38.89	11/01/2003 11:04	49:53:20	1288.05	26.634	24.767	11/01/2003 8:04	46:53:20	630.384	26.634
88	YUNKACK 0.00	Y1		9/01/2003 9:11	36.578	9/01/2003 13:37	4:26:40	470.697	2.443	36.578	9/01/2003 13:37	4:26:40	470.697	2.443
89	YUNKACK 574.20	Y2		9/01/2003 9:11	33.772	11/01/2003 13:24	52:13:19	470.497	2.547	28.006	9/01/2003 13:44	4:33:19	470.497	2.547
90	YUNKACK 948.90	Y3		9/01/2003 9:11	33.778	11/01/2003 13:24	52:13:19	470.678	2.141	23.645	9/01/2003 13:44	4:33:19	470.678	1.909
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	33.778	11/01/2003 13:24	52:13:19	470.661	8.081	21.576	11/01/2003 9:11	48:00:00	470.661	8.172
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	33.775	11/01/2003 13:24	52:13:19	470.626	2.432	21.574	11/01/2003 9:17	48:06:39	470.626	2.432
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	33.773	11/01/2003 13:17	52:06:39	469.662	2.553	21.574	11/01/2003 9:17	48:06:39	469.662	2.553
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	33.773	11/01/2003 13:17	52:06:39	542.923	69.594	21.574	11/01/2003 9:17	48:06:39	468.648	69.594
95	TUCKERGULLY 0.00			9/01/2003 9:11	40.514	11/01/2003 10:51	49:40:00	221.054	0.783	36.533	9/01/2003 12:44	3:33:20	221.054	0.783
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	40.535	11/01/2003 10:44	49:33:20	314.702	2.189	34.484	9/01/2003 12:44	3:33:20	220.491	2.189
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	40.509	11/01/2003 10:44	49:33:20	325.684	1.805	29.501	9/01/2003 12:57	3:46:39	220.402	1.805
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	40.503	11/01/2003 10:44	49:33:20	379.807	2.496	26.28	9/01/2003 12:57	3:46:39	220.377	2.496
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	40.497	11/01/2003 10:44	49:33:20	791.855	2.021	25.67	11/01/2003 7:37	46:26:39	220.341	2.016
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	40.49	11/01/2003 10:44	49:33:20	1158.099	1.637	25.672	11/01/2003 8:04	46:53:20	220.213	1.637
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	40.477	11/01/2003 10:51	49:40:00	1161.33	1.793	25.67	11/01/2003 7:44	46:33:20	220.153	1.793
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	40.482	11/01/2003 10:51	49:40:00	2319.312	2.415	25.674	11/01/2003 7:37	46:26:39	228.568	2.415
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	40.482	11/01/2003 10:51	49:40:00	2381.78	2.776	25.67	11/01/2003 7:37	46:26:39	220.114	2.776
104	TUCKERGULLY 5765.40			9/01/2003 9:11	40.482	11/01/2003 10:51	49:40:00	2482.024	2.787	25.67	11/01/2003 7:37	46:26:39	372.306	2.787
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	40.478	11/01/2003 10:51	49:40:00	3100.328	1.294	25.669	11/01/2003 7:44	46:33:20	321.93	1.294
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	40.476	11/01/2003 10:51	49:40:00	2025.953	5.598	25.669	11/01/2003 7:44	46:33:20	289.287	5.598
107	TUCKERTRIB 0.00			9/01/2003 9:11	40.499	11/01/2003 10:51	49:40:00	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	40.5	11/01/2003 10:51	49:40:00	278.931	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.59
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	40.502	11/01/2003 10:51	49:40:00	243.538	8.643	27.308	10/01/2003 16:50	31:39:59	17.937	8.643
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	40.495	11/01/2003 10:51	49:40:00	1217.219	1.27	25.686	11/01/2003 7:44	46:33:20	36.422	1.269
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	40.483	11/01/2003 10:51	49:40:00	1240.113	0.316	25.673	11/01/2003 7:51	46:40:00	84.36	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	40.479	11/01/2003 10:51	49:40:00	1476.141	0.652	25.673	11/01/2003 7:57	46:46:40	127.941	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	40.488	11/01/2003 10:51	49:40:00	1042.811	0.387	25.677	11/01/2003 7:57	46:46:40	159.397	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	40.482	11/01/2003 10:51	49:40:00	2015.151	6.064	25.67	11/01/2003 7:37	46:26:39	156.845	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	32.292	11/01/2003 13:44	52:33:20	167.732	0.995	19.844	11/01/2003 10:11	49:00:00	167.732	0.995
116	STATIONCK 684.50	S2		9/01/2003 9:11	32.291	11/01/2003 13:44	52:33:20	415.146	1.058	19.844	11/01/2003 10:11	49:00:00	168.682	1.058
117	STATIONCK 1599.70	S3		9/01/2003 9:11	32.289	11/01/2003 13:44	52:33:20	1059.314	1.154	19.844	11/01/2003 10:11	49:00:00	166.516	1.154
118	STATIONCK 2431.30	S4		9/01/2003 9:11	32.289	11/01/2003 13:44	52:33:20	1649.651	0.943	19.844	11/01/2003 10:11	49:00:00	227.449	0.943
119	STATIONCK 3013.70	S5		9/01/2003 9:11	32.291	11/01/2003 13:44	52:33:20	2116.652	0.629	19.844	11/01/2003 10:11	49:00:00	291.724	0.629
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	32.29	11/01/2003 13:44	52:33:20	2647.78	0.825	19.844	11/01/2003 10:11	49:00:00	379.377	0.825
121	STATIONCK 4481.70	S7		9/01/2003 9:11	32.288	11/01/2003 13:44	52:33:20	3087.508	0.892	19.844	11/01/2003 10:11	49:00:00	476.755	0.892
122	STATIONCK 5140.80	S8		9/01/2003 9:11	32.286	11/01/2003 13:44	52:33:20	3516.34	0.286	19.844	11/01/2003 10:11	49:00:00	585.36	0.286
123	STATIONCK 5918.90	S9		9/01/2003 9:11	32.285	11/01/2003 13:44	52:33:20	4072.224	0.155	19.844	11/01/2003 10:11	49:00:00	726.166	0.155
124	STATIONCK 6575.50	S10		9/01/2003 9:11	32.284	11/01/2003 13:44	52:33:20	4458.059	0.256	19.844	11/01/2003 10:04	48:53:20	812.343	0.092
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	32.283	11/01/2003 13:44	52:33:20	4648.226	0.317	19.844	11/01/2003 10:17	49:06:39	847.153	0.101
126	STATIONCK 6954.40			9/01/2003 9:11	32.283	11/01/2003 13:44	52:33:20	26742.412	0.861	19.844	11/01/2003 10:17	49:06:39	5487.244	0.479
127	STATIONCK 7691.00	S11		9/01/2003 9:11	32.252	11/01/2003 13:44	52:33:20	26893.166	0.839	19.82	11/01/2003 10:11	49:00:00	5506.13	0.494
128	MACHINECK 0.00	M1		9/01/2003 9:11	33.615	9/01/2003 11:44	2:33:20	100.035	0.98	33.615	9/01/2003 11:44	2:33:20	100.035	0.98
129	MACHINECK 726.30	M2		9/01/2003 9:11	28.714	9/01/2003 11:51	2:40:00	99.459	0.958	28.714	9/01/2003 11:51	2:40:00	99.459	0.958
130	MACHINECK 1186.80	M3		9/01/2003 9:11	26.615	9/01/2003 11:57	2:46:39	99.105	2.899	26.615	9/01/2003 11:57	2:46:39	99.105	1.268

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
131	MACHINECK 1699.10	M4		9/01/2003 9:11	25.144	11/01/2003 14:24	53:13:19	98.66	0.639	22.924	9/01/2003 12:11	3:00:00	98.66	0.639
132	MACHINECK 2214.80	M5		9/01/2003 9:11	25.144	11/01/2003 14:24	53:13:19	98.474	2.04	20.809	9/01/2003 12:04	2:53:19	98.474	2.298
133	MACHINECK 2730.60	M6		9/01/2003 9:11	25.143	11/01/2003 14:24	53:13:19	98.493	1.419	17.122	9/01/2003 12:11	3:00:00	98.493	1.419
134	MACHINECK 3140.90	M7		9/01/2003 9:11	25.143	11/01/2003 14:24	53:13:19	98.396	1.999	16.195	11/01/2003 10:51	49:40:00	98.396	1.999
135	MACHINECK 3611.90	M8		9/01/2003 9:11	25.143	11/01/2003 14:24	53:13:19	141.825	0.835	16.195	11/01/2003 10:51	49:40:00	98.037	0.835
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	25.142	11/01/2003 14:24	53:13:19	235.945	19.445	16.195	11/01/2003 10:37	49:26:39	96.999	2.85
137	MACHINECK 5099.90	M10		9/01/2003 9:11	25.142	11/01/2003 14:24	53:13:19	387.462	2.081	16.195	11/01/2003 10:44	49:33:20	96.675	2.081
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	25.141	11/01/2003 14:24	53:13:19	525.162	0.723	16.195	11/01/2003 10:44	49:33:20	102.732	0.723
139	MACHINECK 6711.00	M12		9/01/2003 9:11	25.141	11/01/2003 14:24	53:13:19	643.996	0.59	16.195	11/01/2003 10:37	49:26:39	136.782	0.59
140	O'NSTATION 0.00			9/01/2003 9:11	32.993	11/01/2003 13:37	52:26:39	32236.496	1.666	20.615	11/01/2003 9:44	48:33:20	5486.042	1.443
141	O'NSTATION 304.10	O2-1		9/01/2003 9:11	32.957	11/01/2003 13:37	52:26:39	31888.652	1.716	20.56	11/01/2003 9:51	48:40:00	5483.466	1.716
142	O'NSTATION 1252.20	O2-2		9/01/2003 9:11	32.83	11/01/2003 13:37	52:26:39	30939.127	4.449	20.385	11/01/2003 9:57	48:46:40	5475.611	5.074
143	O'NSTATION 1924.60	O2-3		9/01/2003 9:11	32.584	11/01/2003 13:37	52:26:39	30452.338	3.006	20.16	11/01/2003 9:57	48:46:40	5471.316	3.006
144	O'NSTATION 2385.50			9/01/2003 9:11	32.36	11/01/2003 13:44	52:33:20	30212.982	3.566	19.942	11/01/2003 10:04	48:53:20	5469.521	2.185
145	O'NSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	32.283	11/01/2003 13:44	52:33:20	30109.418	3.626	19.844	11/01/2003 10:17	49:06:39	5468.643	2.732
146	WURDONGCK 0.00	W1		9/01/2003 9:11	27.313	9/01/2003 12:17	3:06:40	203.67	1.222	27.313	9/01/2003 12:17	3:06:40	203.67	1.222
147	WURDONGCK 616.40	W2		9/01/2003 9:11	22.279	11/01/2003 14:44	53:33:20	203.571	2.599	22.025	9/01/2003 12:24	3:13:20	203.571	1.2
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	22.279	11/01/2003 14:44	53:33:20	203.48	1.218	17.003	9/01/2003 12:37	3:26:39	203.48	1.488
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	22.278	11/01/2003 14:44	53:33:20	203.51	1.515	14.556	9/01/2003 12:30	3:19:59	203.51	1.515
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	22.278	11/01/2003 14:44	53:33:20	271.293	3.336	14.517	11/01/2003 10:57	49:46:40	203.076	0.992
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	22.278	11/01/2003 14:44	53:33:20	663.052	0.462	14.517	11/01/2003 11:04	49:53:20	197.375	0.462
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	22.277	11/01/2003 14:44	53:33:20	1130.042	1.882	14.517	11/01/2003 10:57	49:46:40	210.477	1.882
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	26.456	11/01/2003 14:11	53:00:00	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	26.456	11/01/2003 14:11	53:00:00	64.809	6.247	17.013	11/01/2003 10:44	49:33:20	29.906	6.249
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	26.456	11/01/2003 14:17	53:06:39	128.192	0.226	17.009	11/01/2003 10:37	49:26:39	34.563	0.226
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	26.456	11/01/2003 14:17	53:06:39	218.725	0.447	17.009	11/01/2003 10:30	49:19:59	33.168	0.447
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	26.456	11/01/2003 14:17	53:06:39	278.983	1.359	17.008	11/01/2003 10:24	49:13:19	50.744	1.358
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	26.456	11/01/2003 14:17	53:06:39	340.016	2.993	17.009	11/01/2003 10:24	49:13:19	69.574	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	27.467	11/01/2003 14:04	52:53:20	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	27.466	11/01/2003 14:04	52:53:20	59.286	10.54	17.581	11/01/2003 10:11	49:00:00	46.943	10.54
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	27.466	11/01/2003 14:04	52:53:20	127.127	0.641	17.577	11/01/2003 10:17	49:06:39	45.192	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	27.465	11/01/2003 14:04	52:53:20	233.357	0.519	17.578	11/01/2003 10:30	49:19:59	38.274	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	27.464	11/01/2003 14:04	52:53:20	372.164	1.329	17.577	11/01/2003 10:24	49:13:19	64.669	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	27.464	11/01/2003 14:04	52:53:20	20726.26	6.69	17.577	11/01/2003 10:24	49:13:19	4931.856	3.152
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	22.503	11/01/2003 14:17	53:06:39	20725.023	8.913	15.024	11/01/2003 10:24	49:13:19	4931.058	4.22
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	20.756	11/01/2003 14:37	53:26:39	20719.066	4.223	14.055	11/01/2003 10:51	49:40:00	4930.054	2.113
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	19.865	11/01/2003 14:51	53:40:00	20684.238	3.154	12.989	11/01/2003 10:57	49:46:40	4929.296	2.629
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	19.772	11/01/2003 14:51	53:40:00	20644.389	1.71	12.812	11/01/2003 11:11	50:00:00	4928.822	0.982
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	19.772	11/01/2003 14:51	53:40:00	2288.67	0.478	12.812	11/01/2003 11:11	50:00:00	788.61	0.478
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	19.772	11/01/2003 14:51	53:40:00	2219.901	0.696	12.812	11/01/2003 11:04	49:53:20	781.598	0.696
171	O'LAND01 0.00			9/01/2003 9:11	19.772	11/01/2003 14:51	53:40:00	22471.018	2.849	12.812	11/01/2003 11:11	50:00:00	4567.413	1.42
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	19.043	11/01/2003 14:57	53:46:40	22461.547	3.066	12.401	11/01/2003 11:11	50:00:00	4567.016	1.532
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	18.502	11/01/2003 15:04	53:53:20	22442.615	2.501	11.864	11/01/2003 11:17	50:06:39	4566.686	1.436
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	18.295	11/01/2003 15:04	53:53:20	22428.496	2.146	11.59	11/01/2003 11:24	50:13:19	4566.341	1.174

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	17.994	11/01/2003 15:04	53:53:20	22403.287	1.831	11.301	11/01/2003 11:24	50:13:19	4565.595	0.918
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	17.775	11/01/2003 15:11	54:00:00	22376.555	1.661	11.144	11/01/2003 11:30	50:19:59	4564.89	0.793
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	17.183	11/01/2003 15:11	54:00:00	22360.293	3.104	10.776	11/01/2003 11:30	50:19:59	4564.625	2.233
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	17.184	11/01/2003 15:11	54:00:00	55.264	0.305	10.776	11/01/2003 11:30	50:19:59	55.264	0.305
179	CATTLECK 743.60	CC2		9/01/2003 9:11	17.184	11/01/2003 15:11	54:00:00	125.634	0.859	10.776	11/01/2003 11:30	50:19:59	54.138	0.859
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	17.184	11/01/2003 15:11	54:00:00	231.875	0.764	10.776	11/01/2003 11:30	50:19:59	51.985	0.764
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	17.183	11/01/2003 15:11	54:00:00	348.79	0.172	10.776	11/01/2003 11:30	50:19:59	62.831	0.172
182	CATTLECK 1994.43			9/01/2003 9:11	17.183	11/01/2003 15:11	54:00:00	22291.857	2.089	10.776	11/01/2003 11:30	50:19:59	4564.972	0.894
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	16.835	11/01/2003 15:11	54:00:00	22290.111	3.125	10.621	11/01/2003 11:30	50:19:59	4564.972	1.87
184	CATTLECK 2335.00			9/01/2003 9:11	16.395	11/01/2003 15:17	54:06:39	22286.842	3.347	10.445	11/01/2003 11:30	50:19:59	4564.977	1.93
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	16.408	11/01/2003 15:17	54:06:39	24650.889	1.825	10.615	11/01/2003 11:30	50:19:59	6955.339	1.825
186	STHTREES 851.80	ST2		9/01/2003 9:11	15.634	11/01/2003 15:24	54:13:19	24538.4	1.587	9.561	11/01/2003 11:51	50:40:00	6952.856	1.035
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	15.383	11/01/2003 15:30	54:19:59	24446.422	1.612	9.282	11/01/2003 11:57	50:46:40	6950.161	1.277
188	STHTREES 2361.30	ST4		9/01/2003 9:11	15.166	11/01/2003 15:30	54:19:59	24358.221	1.428	9.061	11/01/2003 12:04	50:53:20	6947.414	0.864
189	STHTREES 2829.50	ST5		9/01/2003 9:11	15.115	11/01/2003 15:30	54:19:59	24304.83	1.05	8.987	11/01/2003 12:04	50:53:20	6945.54	0.686
190	STHTREES 3773.50	ST6		9/01/2003 9:11	14.935	11/01/2003 15:30	54:19:59	24221.627	1.222	8.845	11/01/2003 12:11	51:00:00	6942.417	0.719
191	STHTREES 4171.60	ST7		9/01/2003 9:11	14.778	11/01/2003 15:30	54:19:59	24202.875	1.658	8.763	11/01/2003 12:11	51:00:00	6941.636	0.891
192	STHTREES 4595.40	ST8		9/01/2003 9:11	14.491	11/01/2003 15:37	54:26:39	24188.736	2.244	8.605	11/01/2003 12:11	51:00:00	6941.091	1.281
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	24175.33	2.225	8.375	11/01/2003 12:17	51:06:39	6940.568	1.342
194	STHTREES 5122.39			9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	24139.582	2.212	8.375	11/01/2003 12:17	51:06:39	6940.914	1.341
195	STHTREES 5493.40	ST9		9/01/2003 9:11	13.791	11/01/2003 15:37	54:26:39	24133.133	2.614	8.2	11/01/2003 12:17	51:06:39	6940.719	1.425
196	STHTREES 6390.90	ST10		9/01/2003 9:11	11.899	11/01/2003 15:44	54:33:20	24124.182	5.519	7.071	11/01/2003 12:24	51:13:19	6940.296	3.703
197	STHTREES 7658.80	ST11		9/01/2003 9:11	10.02	11/01/2003 16:04	54:53:20	24082.381	1.459	5.785	11/01/2003 12:57	51:46:40	6938.333	0.741
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	9.775	11/01/2003 16:04	54:53:20	24052.969	1.567	5.658	11/01/2003 12:57	51:46:40	6936.792	0.828
199	STHTREES 8251.05			9/01/2003 9:11	9.775	11/01/2003 16:04	54:53:20	23988.377	1.556	5.658	11/01/2003 12:57	51:46:40	6934.964	0.827
200	STHTREES 9287.10	ST12		9/01/2003 9:11	9.163	11/01/2003 16:11	55:00:00	23964.373	1.86	5.34	11/01/2003 13:04	51:53:20	6933.581	1.018
201	STHTREES 11258.10	ST13		9/01/2003 9:11	7.843	11/01/2003 16:17	55:06:39	23921.246	1.623	4.633	11/01/2003 13:24	52:13:19	6931.157	0.889
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.731	11/01/2003 16:24	55:13:19	23891.57	1.639	4.062	11/01/2003 13:37	52:26:39	6929.652	0.945
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.575	11/01/2003 16:37	55:26:39	23867.822	1.151	3.553	11/01/2003 13:51	52:40:00	6927.243	0.574
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	23862.527	4.433	2.42	9/01/2003 9:11	0:00:00	6926.18	1.287
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	87.804	1.503	10.371	9/01/2003 11:44	2:33:20	87.804	1.503
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	87.99	3.157	8.375	11/01/2003 12:17	51:06:39	87.99	3.157
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	87.502	0.319	8.375	11/01/2003 12:17	51:06:39	87.502	0.319
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	127.531	0.177	8.375	11/01/2003 12:17	51:06:39	86.797	0.177
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	14.161	11/01/2003 15:37	54:26:39	191.238	0.091	8.375	11/01/2003 12:17	51:06:39	85.465	0.091
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	12.456	9/01/2003 11:44	2:33:20	72.659	0.766	12.456	9/01/2003 11:44	2:33:20	72.659	0.766
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	9.776	11/01/2003 16:04	54:53:20	72.021	3.03	5.66	11/01/2003 13:37	52:26:39	72.021	3.03
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	9.775	11/01/2003 16:04	54:53:20	72.223	0.115	5.658	11/01/2003 12:57	51:46:40	72.223	0.115
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	9.775	11/01/2003 16:04	54:53:20	182.568	0.044	5.658	11/01/2003 13:04	51:53:20	72.535	0.044
214	ELEVENMILECK 3887.00			9/01/2003 9:11	9.775	11/01/2003 16:04	54:53:20	259.388	0.049	5.658	11/01/2003 12:57	51:46:40	72.169	0.043
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	34.189	11/01/2003 13:17	52:06:39	88.739	2.082	22.263	11/01/2003 8:51	47:40:00	88.739	2.082
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	34.186	11/01/2003 13:11	52:00:00	297.31	11.499	22.263	11/01/2003 8:51	47:40:00	176.566	1.98
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	34.193	11/01/2003 13:04	51:53:20	1060.924	0.177	22.263	11/01/2003 8:57	47:46:40	470.396	0.177
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	34.192	11/01/2003 13:04	51:53:20	1148.336	0.167	22.263	11/01/2003 8:57	47:46:40	475.01	0.167

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL40

48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
219	SPILLWAY 0.00			9/01/2003 9:11	52.283	11/01/2003 6:17	45:06:39	17594.512	0.813	52.283	11/01/2003 6:17	45:06:39	15505.195	0.57
220	SPILLWAY 300.00			9/01/2003 9:11	46.05	11/01/2003 10:24	49:13:19	15502.745	0.616	28.258	11/01/2003 7:11	46:00:00	15502.745	0.616



# **AWOONGA DAM**

## **BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**

### **VOLUME II**

#### **SECTION 4.0            DAM BREAK STUDY – FSL 45**



- Photo Mosaic – Sunny Day Failure – Maximum Flood Levels
- Photo Mosaic – PMF Fail/No Fail – Maximum Flood Levels
- Table 4.1 - PMF – No Failure – Maximum Water Levels – 6hr, 12hr, 24hr, 48hr
- Table 4.2 – PMF – Failure – Maximum Water Levels – SDF, 6hr, 12hr, 24hr, 48hr
- Table 4.3 – Sunny Day Failure – Summary of Results
- Table 4.4 – 6hr PMF Failure & No Failure – Summary of Results
- Table 4.5 – 12hr PMF Failure & No Failure – Summary of Results
- Table 4.6 – 24hr PMF Failure & No Failure – Summary of Results
- Table 4.7 – 48hr PMF Failure & No Failure – Summary of Results

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**NOTES:**

1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000

**LEGEND:**

-  AWOONGA DAM FSL 45.0 SUNNY DAY FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

1	2
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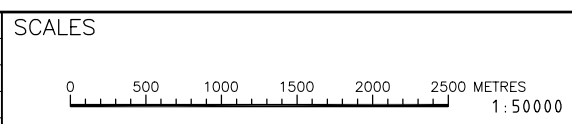


SHEET 2

JOINS

REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220478	SHEET 2 OF 2



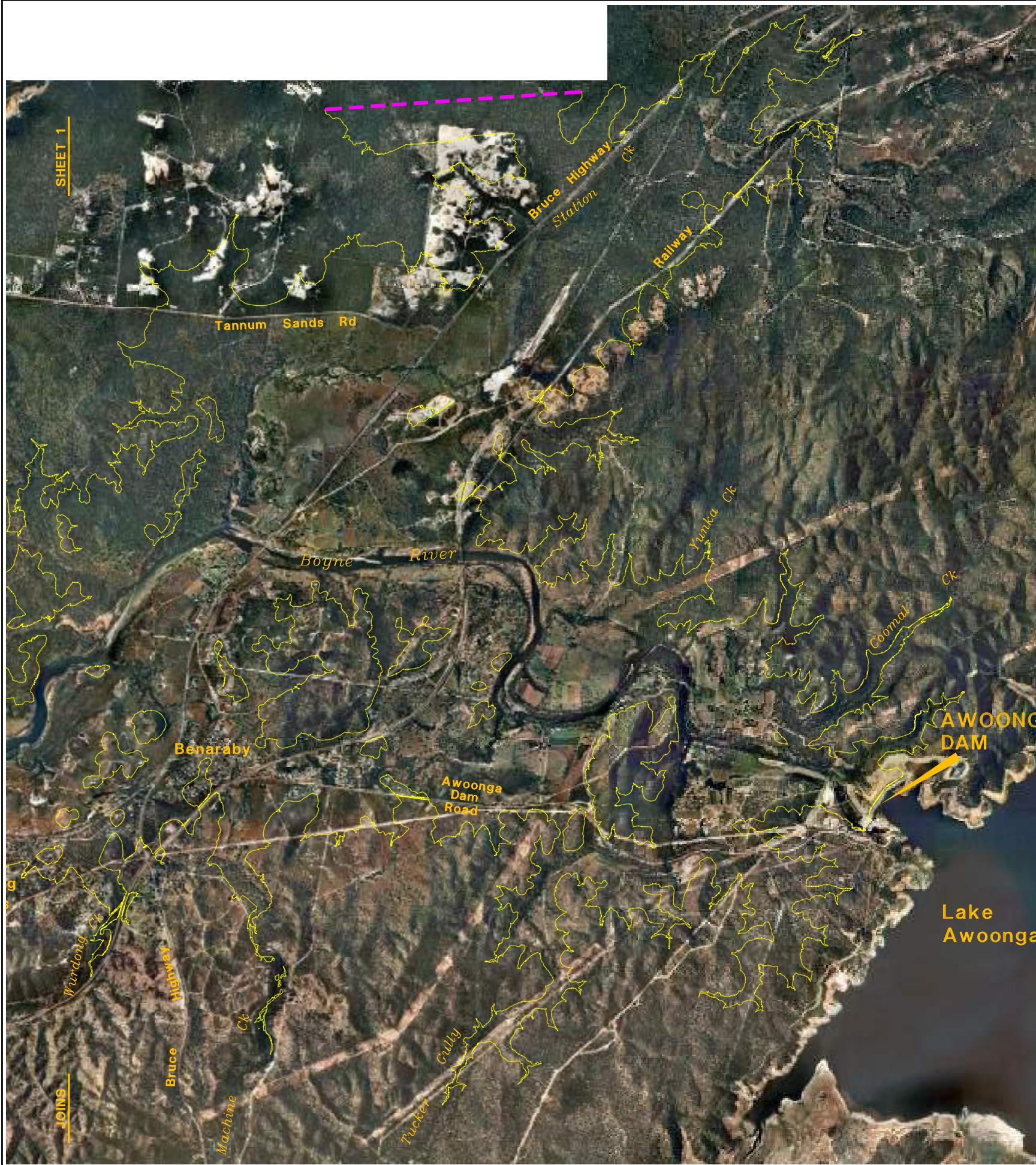
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DRAFTING CHK		DESIGN CHK	
APPROVED			
<b>R.AYRE</b>			
PROJECT MANAGER WATER STUDIES			





**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**SUNNY DAY FAILURE - FSL 45.0**  
**MAXIMUM FLOOD LEVELS**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220477</b>
DATE	OCT 2003

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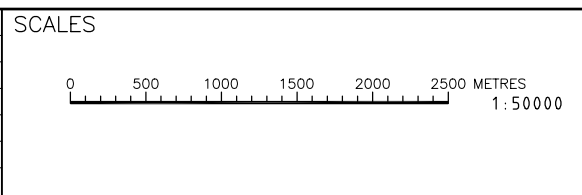
**LEGEND:**

-  AWOONGA DAM FSL 45.0 SUNNY DAY FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

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REVISION									
DATE	REMARKS	CKD	PSD	REFERENCE DRAWINGS	220477	SHEET 1 OF 2			



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APPROVED			
R.AYRE			
PROJECT MANAGER WATER STUDIES			






**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**SUNNY DAY FAILURE - FSL 45.0**  
**MAXIMUM FLOOD LEVELS**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220478</b>
DATE	OCT 2003

**NOTES:**

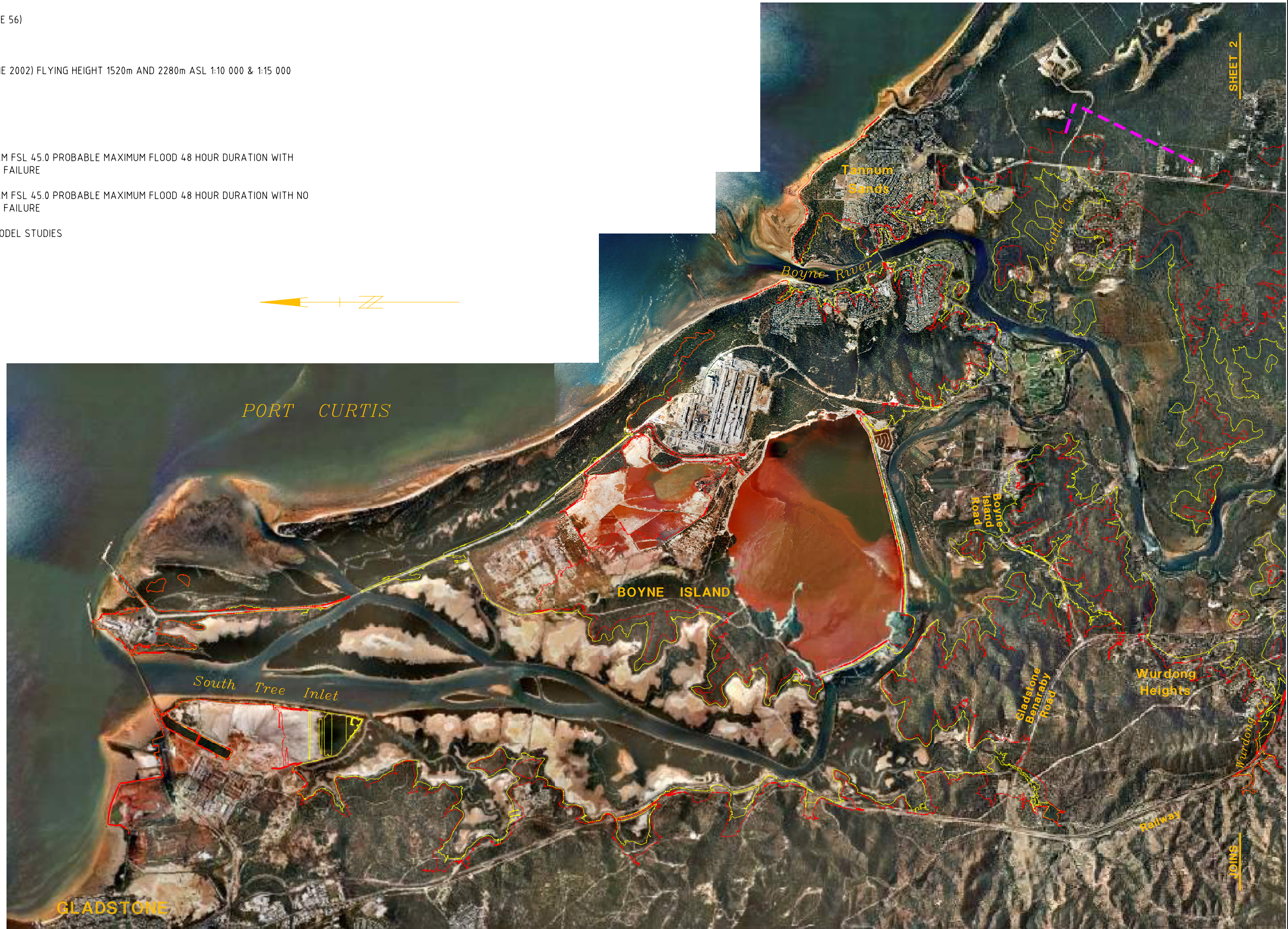
1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000

**LEGEND:**

-  AWOONGA DAM FSL 45.0 PROBABLE MAXIMUM FLOOD 48 HOUR DURATION WITH EMBANKMENT FAILURE
-  AWOONGA DAM FSL 45.0 PROBABLE MAXIMUM FLOOD 48 HOUR DURATION WITH NO EMBANKMENT FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

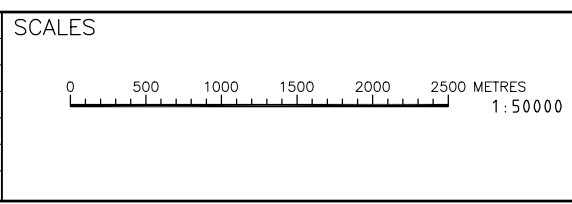
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P:\G Projects 2003-2004\G-80600\_Gladstone Area Water Board (GAWB)\03\_Boyne River\FloodStudy\drafting\220475.dwg 14 Oct 2003 9:48 AM

REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220476	SHEET 2 OF 2



DRAFTING	RET	DESIGN	DR
DRAFTING CHK		DESIGN CHK	
APPROVED			
R.AYRE			
PROJECT MANAGER			
WATER STUDIES			

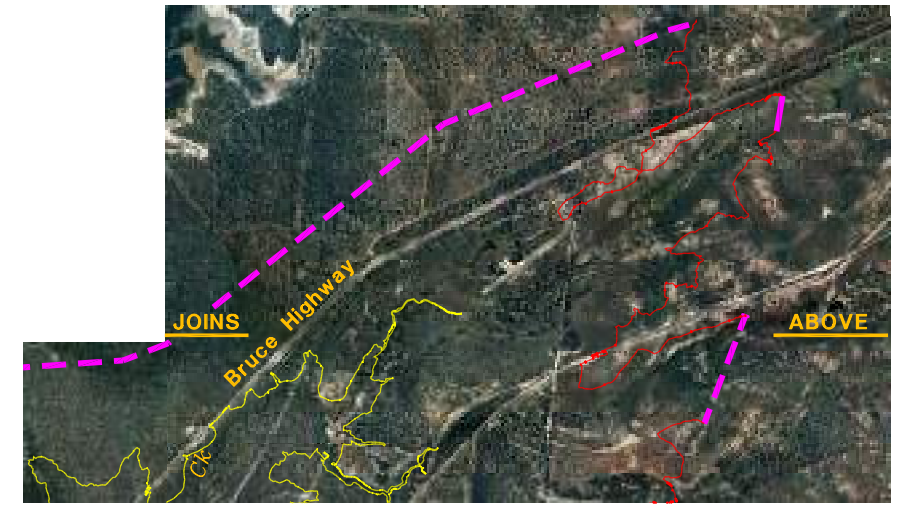


**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**PROBABLE MAXIMUM FLOOD - FSL 45.0**  
**MAXIMUM FLOOD LEVELS**




SH 1 OF 2

CONTRACT NUMBER	
DRAWING NUMBER	<b>220475</b>
DATE	OCT 2003

P:\G Projects 2003-2004\G-80600\_Gladstone Area Water Board (GAWB)\03\_Boyne River\01\_Boyne River FloodStudy\drafting\220475.dwg  
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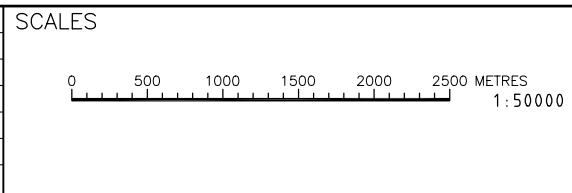
**LEGEND:**

-  AWOONGA DAM FSL 45.0 PROBABLE MAXIMUM FLOOD 48 HOUR DURATION WITH EMBANKMENT FAILURE
-  AWOONGA DAM FSL 45.0 PROBABLE MAXIMUM FLOOD 48 HOUR DURATION WITH NO EMBANKMENT FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

1	2
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REVISION	DATE	REMARKS	CKD	PSD	REFERENCE	DRAWINGS
					220475	SHEET 1 OF 2



DRAFTING RET	DESIGN DR
DRAFTING CHK	DESIGN CHK
APPROVED <b>R.AYRE</b> PROJECT MANAGER WATER STUDIES	



**AWOONGA DAM**  
 BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY  
 PHOTO MOSAIC  
 PROBABLE MAXIMUM FLOOD - FSL 45.0  
 MAXIMUM FLOOD LEVELS

CONTRACT NUMBER	
DRAWING NUMBER	<b>220476</b>
DATE	OCT 2003

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr, & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF	12hr - PMF	24hr - PMF	No	48hr - PMF	No
				No Failure	No Failure	Failure		Failure	
				Maximum	Maximum	Maximum		Maximum	
				WL (m)	WL (m)	WL (m)		WL (m)	
1	BOYNERIVER 0.00			49.807	52.469	53.778		53.769	
2	BOYNERIVER 100.00			49.806	52.466	53.772		53.762	
3	BOYNERIVER 100.00			49.806	52.466	53.772		53.762	
4	BOYNERIVER 150.00			49.806	52.466	53.772		53.762	
5	BOYNERIVER 350.00			20.386	25.729	28.249		28.384	
6	BOYNERIVER 420.00			20.386	25.728	28.249		28.384	
7	BOYNERIVER 420.00			20.386	25.728	28.249		28.384	
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	19.919	25.237	27.738		27.888	
9	BOYNERIVER 1383.80	B21.15		19.419	24.51	26.879		27.047	
10	BOYNERIVER 1985.90	B20.6		18.697	23.546	25.794		25.992	
11	BOYNERIVER 2182.33		Tucker Gully	18.571	23.369	25.587		25.79	
12	BOYNERIVER 2182.33			18.571	23.369	25.587		25.79	
13	BOYNERIVER 2462.80	B20.1		18.208	22.911	25.085		25.301	
14	BOYNERIVER 3120.26		Coomal Ck	17.905	22.58	24.658		24.889	
15	BOYNERIVER 3120.26			17.905	22.58	24.658		24.889	
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	17.822	22.445	24.546		24.781	
17	BOYNERIVER 3976.40	B18.3		17.356	21.81	23.887		24.137	
18	BOYNERIVER 4740.10	B17.6		16.188	20.42	22.509		22.802	
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	15.81	19.965	22.079		22.388	
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	15.81	19.965	22.079		22.388	
21	BOYNERIVER 5934.10	B16.7		15.443	19.63	21.8		22.123	
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	14.913	19.075	21.361		21.708	
23	BOYNERIVER 6676.80	B16.0		14.913	19.075	21.361		21.708	
24	BOYNERIVER 7293.40	B15.5		14.543	18.533	20.853		21.213	
25	BOYNERIVER 8050.70	B14.8	O/L Station Offtake	14.101	18.039	20.383		20.753	
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	14.101	18.039	20.383		20.753	
27	BOYNERIVER 8522.40	B14.35		13.888	17.889	20.265		20.64	
28	BOYNERIVER 8856.20	B14.0		13.832	17.853	20.241		20.617	
29	BOYNERIVER 9247.40	B13.6		13.68	17.709	20.104		20.482	
30	BOYNERIVER 9679.30	B13.2		13.504	17.522	19.92		20.3	
31	BOYNERIVER 10080.40	B12.8		13.358	17.421	19.851		20.234	
32	BOYNERIVER 10401.00			13.216	17.291	19.722		20.106	
33	BOYNERIVER 10402.80			13.221	17.295	19.725		20.11	
34	BOYNERIVER 10412.80	B12.5		13.242	17.308	19.743		20.133	
35	BOYNERIVER 10414.00			13.212	17.288	19.719		20.103	
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	13.135	17.231	19.671		20.057	
37	BOYNERIVER 10832.90		Station Ck	13.021	17.132	19.576		19.962	
38	BOYNERIVER 10832.90			13.021	17.132	19.576		19.962	
39	BOYNERIVER 11254.50	B11.6		12.576	16.425	18.703		19.065	
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	11.874	15.331	17.359		17.694	
41	BOYNERIVER 11848.60	B11.05	O/L Boyne Offtake	11.874	15.331	17.359		17.694	
42	BOYNERIVER 12303.00			11.52	14.861	16.794		17.122	
43	BOYNERIVER 12303.00		Boyne Trib1	11.52	14.861	16.794		17.122	
44	BOYNERIVER 12455.40	B10.5		11.386	14.68	16.566		16.891	
45	BOYNERIVER 12785.40		Machine Ck	11.038	14.212	15.983		16.302	
46	BOYNERIVER 12785.40			11.038	14.212	15.983		16.302	
47	BOYNERIVER 12874.90	B10.2		10.93	14.062	15.797		16.103	
48	BOYNERIVER 13251.30	B9.8		10.731	13.864	15.608		15.886	
49	BOYNERIVER 13865.90	B9.1		10.143	13.079	14.719		14.981	
50	BOYNERIVER 14304.56		Wurdong Ck	9.89	12.755	14.356		14.613	
51	BOYNERIVER 14304.56			9.89	12.755	14.356		14.613	
52	BOYNERIVER 14472.20	B8.5		9.826	12.668	14.255		14.51	
53	BOYNERIVER 14964.20	B8.0		9.551	12.332	13.896		14.147	
54	BOYNERIVER 15341.20	B7.55		9.155	11.767	13.249		13.489	
55	BOYNERIVER 15741.50	B7.2		8.836	11.365	12.815		13.059	
56	BOYNERIVER 16062.90		O/L Boyne D/S	8.7	11.215	12.658		12.9	
57	BOYNERIVER 16062.90			8.7	11.215	12.658		12.9	
58	BOYNERIVER 16145.40	B6.8		8.664	11.182	12.625		12.868	
59	BOYNERIVER 16727.90	B6.2		8.231	10.662	12.038		12.27	
60	BOYNERIVER 17358.60	B5.55		7.75	10.133	11.457		11.681	
61	BOYNERIVER 17722.19		South Trees	7.124	9.291	10.484		10.689	
62	BOYNERIVER 17722.19			7.124	9.291	10.484		10.689	
63	BOYNERIVER 17874.50			6.972	9.157	10.377		10.586	
64	BOYNERIVER 18184.66		Cattle Ck	6.806	9.055	10.309		10.522	
65	BOYNERIVER 18184.66			6.806	9.055	10.309		10.522	
66	BOYNERIVER 18476.20	B4.5		6.61	8.81	10.033		10.239	
67	BOYNERIVER 18884.20	B4.05		6.225	8.248	9.358		9.541	
68	BOYNERIVER 19282.40	B3.65		6.088	8.105	9.225		9.409	
69	BOYNERIVER 19869.50	B3.15		5.733	7.707	8.799		8.985	
70	BOYNERIVER 20263.70	B2.75		5.37	7.222	8.243		8.416	
71	BOYNERIVER 20684.60	B2.45		5.015	6.776	7.755		7.926	

Table 4.1

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr, & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF	12hr - PMF	24hr - PMF	48hr - PMF
				No Failure	No Failure	No Failure	No Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
72	BOYNERIVER 20866.30	B2.25		4.899	6.638	7.619	7.789
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	4.491	6.02	6.904	7.064
74	BOYNERIVER 21471.70	B1.65		4.119	5.335	5.999	6.119
75	BOYNERIVER 21861.20	B1.2		3.87	4.825	5.299	5.401
76	BOYNERIVER 22251.30	B0.9		3.44	4.039	4.146	4.192
77	BOYNERIVER 22636.00	B0.5		2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1		38.018	38.051	38.064	37.74
79	COOMALCK 398.20	C2		33.341	33.375	33.385	33.058
80	COOMALCK 794.20	C3		29.642	33.294	29.684	29.377
81	COOMALCK 1209.50	C4		26.579	28.681	26.636	26.311
82	COOMALCK 1813.30	C5		22.002	23.294	24.659	24.89
83	COOMALCK 2352.80	C6		18.024	22.583	24.659	24.889
84	COOMALCK 3112.20	C7		17.912	22.652	24.657	24.889
85	COOMALCK 3751.30	C8		17.903	22.715	24.657	24.889
86	COOMALCK 4222.50	C9		17.904	22.61	24.657	24.889
87	COOMALCK 4305.00			17.905	22.58	24.658	24.889
88	YUNKACK 0.00	Y1		34.489	34.469	34.713	36.578
89	YUNKACK 574.20	Y2		26.859	26.836	26.994	28.006
90	YUNKACK 948.90	Y3		22.26	22.245	22.403	23.645
91	YUNKACK 1253.10	Y4		19.001	19.079	21.361	21.709
92	YUNKACK 1835.50	Y5		14.912	19.078	21.361	21.708
93	YUNKACK 2434.60	Y6		14.913	19.075	21.361	21.708
94	YUNKACK 2763.00	Y7		14.913	19.075	21.361	21.708
95	TUCKERGULLY 0.00			36.642	36.659	36.799	36.533
96	TUCKERGULLY 1066.80	TU-1		34.565	34.578	34.682	34.484
97	TUCKERGULLY 1965.80	TU-2		29.598	29.607	29.736	29.501
98	TUCKERGULLY 2491.10	TU-3		26.377	26.385	26.512	26.28
99	TUCKERGULLY 3217.50	TU-4		22.046	23.561	25.591	25.793
100	TUCKERGULLY 3966.50	TU-5		18.575	23.397	25.59	25.793
101	TUCKERGULLY 4522.10	TU-6		18.571	23.393	25.589	25.791
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	18.571	23.415	25.59	25.792
103	TUCKERGULLY 5765.40		Tucker Trib	18.57	23.401	25.588	25.791
104	TUCKERGULLY 5765.40			18.57	23.401	25.588	25.791
105	TUCKERGULLY 6350.10	TU-8		18.571	23.371	25.587	25.79
106	TUCKERGULLY 6669.00	TU-9		18.571	23.369	25.587	25.79
107	TUCKERTRIB 0.00			30.815	30.815	30.815	30.815
108	TUCKERTRIB 206.20	T1-1		30.261	30.261	30.261	30.261
109	TUCKERTRIB 730.40	T1-2		27.265	27.265	27.265	27.347
110	TUCKERTRIB 1416.70	T1-3		20.311	23.423	25.597	25.798
111	TUCKERTRIB 1944.80	T1-4		18.582	23.432	25.589	25.796
112	TUCKERTRIB 2331.50	T1-5		18.581	23.427	25.592	25.795
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	18.574	23.404	25.594	25.798
114	TUCKERTRIB 3377.00			18.57	23.401	25.588	25.791
115	STATIONCK 0.00	S1		16.576	17.149	19.6	19.987
116	STATIONCK 684.50	S2		15.244	17.15	19.6	19.987
117	STATIONCK 1599.70	S3		13.599	17.15	19.6	19.987
118	STATIONCK 2431.30	S4		13.022	17.149	19.6	19.987
119	STATIONCK 3013.70	S5		13.022	17.149	19.6	19.987
120	STATIONCK 3734.90	S6	Bruce H'way	13.022	17.149	19.6	19.987
121	STATIONCK 4481.70	S7		13.022	17.149	19.6	19.987
122	STATIONCK 5140.80	S8		13.022	17.149	19.6	19.987
123	STATIONCK 5918.90	S9		13.022	17.148	19.6	19.987
124	STATIONCK 6575.50	S10		13.022	17.148	19.599	19.987
125	STATIONCK 6954.40		O/L Station D/S	13.022	17.148	19.599	19.987
126	STATIONCK 6954.40			13.022	17.148	19.599	19.987
127	STATIONCK 7691.00	S11		13.021	17.132	19.576	19.962
128	MACHINECK 0.00	M1		34.181	34.203	34.288	33.615
129	MACHINECK 726.30	M2		29.298	29.313	29.39	28.714
130	MACHINECK 1186.80	M3		27.084	27.093	27.141	26.615
131	MACHINECK 1699.10	M4		23.586	23.598	23.693	22.924
132	MACHINECK 2214.80	M5		21.151	21.158	21.217	20.809
133	MACHINECK 2730.60	M6		17.541	17.549	17.611	17.122
134	MACHINECK 3140.90	M7		15.53	15.538	15.984	16.302
135	MACHINECK 3611.90	M8		13.25	14.212	15.984	16.302
136	MACHINECK 4246.80	M9	Road/Rail X-ing	11.453	14.212	15.984	16.302
137	MACHINECK 5099.90	M10		11.038	14.212	15.984	16.302
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	11.038	14.212	15.984	16.302
139	MACHINECK 6711.00	M12		11.038	14.212	15.983	16.302
140	O'LSATION 0.00			14.101	18.039	20.383	20.753
141	O'LSATION 304.10	O2-1		14.077	17.977	20.327	20.698
142	O'LSATION 1252.20	O2-2		13.939	17.762	20.149	20.525
143	O'LSATION 1924.60	O2-3		13.293	17.491	19.92	20.301
144	O'LSATION 2385.50			13.062	17.255	19.7	20.084
145	O'LSATION 2588.00	O2-4	Bruce H'way	13.022	17.148	19.599	19.987

Table 4.1

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr, & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF	12hr - PMF	24hr - PMF	48hr - PMF
				No Failure	No Failure	Failure	Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
146	WURDONGCK 0.00	W1		26.604	26.598	26.761	27.313
147	WURDONGCK 616.40	W2		21.383	21.39	21.557	22.025
148	WURDONGCK 1311.60	W3		16.266	16.239	16.472	17.003
149	WURDONGCK 1752.90	W4		13.748	13.739	14.356	14.614
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9.891	12.755	14.356	14.613
151	WURDONGCK 3446.50	W6		9.891	12.755	14.356	14.613
152	WURDONGCK 4664.00	W7		9.89	12.755	14.356	14.613
153	BOYNETRIB1 0.00	T2-1		24.036	24.036	24.036	24.036
154	BOYNETRIB1 573.10	T2-2		16.242	16.242	16.796	17.128
155	BOYNETRIB1 1368.30	T2-3		11.521	14.862	16.794	17.122
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	11.52	14.861	16.793	17.122
157	BOYNETRIB1 2194.80	T2-5		11.52	14.861	16.794	17.121
158	BOYNETRIB1 2663.00	T2-6		11.52	14.861	16.794	17.122
159	BOYNETRIB2 0.00	T3-1		18.325	18.325	18.325	18.325
160	BOYNETRIB2 381.20	T3-2		14.526	15.337	17.364	17.694
161	BOYNETRIB2 713.60	T3-3		11.874	15.332	17.361	17.694
162	BOYNETRIB2 1247.10	T3-4		11.874	15.332	17.361	17.695
163	BOYNETRIB2 1804.00	T3-5		11.874	15.331	17.359	17.694
164	O'LANDBOYNE 0.00			11.874	15.331	17.359	17.694
165	O'LANDBOYNE 462.10	O3-1		10.169	13.245	14.854	15.116
166	O'LANDBOYNE 843.90	O3-2		9.446	12.362	13.893	14.143
167	O'LANDBOYNE 1492.50	O3-3		8.764	11.36	12.834	13.078
168	O'LANDBOYNE 1924.31		O'Land01 U/S	8.709	11.216	12.658	12.9
169	O'LANDBOYNE 1924.31			8.709	11.216	12.658	12.9
170	O'LANDBOYNE 2032.00	O3-4		8.7	11.215	12.658	12.9
171	O'LAND01 0.00			8.709	11.216	12.658	12.9
172	O'LAND01 415.30	O4-01		8.61	10.904	12.255	12.484
173	O'LAND01 1018.80	O4-02		8.347	10.379	11.716	11.948
174	O'LAND01 1360.20	O4-03		7.671	10.007	11.435	11.677
175	O'LAND01 1988.30	O4-04		7.055	9.656	11.143	11.39
176	O'LAND01 2586.50	O4-05		6.894	9.499	10.987	11.233
177	O'LAND01 3091.00	O4-06		6.828	9.226	10.625	10.862
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	7.945	9.226	10.625	10.862
179	CATTLECK 743.60	CC2		6.828	9.226	10.625	10.862
180	CATTLECK 1293.10	CC3		6.828	9.226	10.625	10.862
181	CATTLECK 1994.43		O'Land 01 D/S	6.828	9.226	10.625	10.862
182	CATTLECK 1994.43			6.828	9.226	10.625	10.862
183	CATTLECK 2124.80	CC4		6.819	9.147	10.476	10.702
184	CATTLECK 2335.00			6.806	9.055	10.309	10.522
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	7.124	9.291	10.484	10.689
186	STHTREES 851.80	ST2		5.851	8.013	9.408	9.645
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	5.477	7.693	9.124	9.368
188	STHTREES 2361.30	ST4		5.2	7.436	8.9	9.147
189	STHTREES 2829.50	ST5		5.103	7.35	8.825	9.073
190	STHTREES 3773.50	ST6		4.93	7.203	8.683	8.931
191	STHTREES 4171.60	ST7		4.859	7.131	8.602	8.849
192	STHTREES 4595.40	ST8		4.742	6.995	8.446	8.689
193	STHTREES 5122.39		Ten Mile Ck	4.593	6.802	8.219	8.458
194	STHTREES 5122.39			4.593	6.802	8.219	8.458
195	STHTREES 5493.40	ST9		4.501	6.663	8.048	8.281
196	STHTREES 6390.90	ST10		3.852	5.713	6.936	7.142
197	STHTREES 7658.80	ST11		3.251	4.629	5.663	5.847
198	STHTREES 8251.05		Eleven Mile Ck	3.197	4.531	5.539	5.718
199	STHTREES 8251.05			3.197	4.531	5.539	5.718
200	STHTREES 9287.10	ST12		3.077	4.287	5.228	5.396
201	STHTREES 11258.10	ST13		2.831	3.736	4.536	4.68
202	STHTREES 12688.10	ST14		2.661	3.316	3.981	4.101
203	STHTREES 14444.90	ST15		2.555	2.985	3.489	3.583
204	STHTREES 17478.00	ST16		2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	10.472	10.477	10.602	10.371
206	TENMILECK 510.20	T4-2		4.944	6.802	8.219	8.458
207	TENMILECK 1040.50	T4-3		4.593	6.802	8.219	8.458
208	TENMILECK 1753.90	T4-4		4.593	6.802	8.219	8.458
209	TENMILECK 2298.00	T4-5		4.593	6.802	8.219	8.458
210	ELEVENMILECK 0.00	T5-1		13.072	13.083	13.129	12.456
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	5.735	5.761	5.874	5.725
212	ELEVENMILECK 1811.40	T5-3		3.197	4.532	5.539	5.718
213	ELEVENMILECK 3118.20	T5-4		3.197	4.531	5.539	5.718
214	ELEVENMILECK 3887.00			3.197	4.531	5.539	5.718
215	LITTLEOAKYCK 0.00	O1-1A		17.659	19.972	22.079	22.388
216	LITTLEOAKYCK 670.00	O1-2A		15.813	19.971	22.079	22.388
217	LITTLEOAKYCK 1834.00	O1-3A		15.81	19.965	22.079	22.388
218	LITTLEOAKYCK 1958.00			15.81	19.965	22.079	22.388
219	SPILLWAY 0.00			49.806	52.466	53.772	53.762

Table 4.1



## BOYNE RIVER

Dambreak and Flood Modelling Study

Feature: Dambreak FSL45

PMF - No Failure - Max Water Levels - 6hr, 12hr, 24hr, & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF	12hr - PMF	24hr - PMF	No	48hr - PMF	No
				No Failure	No Failure	Failure		Failure	
				Maximum	Maximum	Maximum		Maximum	
				WL (m)	WL (m)	WL (m)		WL (m)	
220	SPILLWAY 300.00			20.386	25.728	28.249		28.384	

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00			44.927	49.807	52.469	53.748	53.769
2	BOYNERIVER 100.00			44.931	49.806	52.466	53.744	53.762
3	BOYNERIVER 100.00			44.931	49.806	52.466	53.744	53.762
4	BOYNERIVER 150.00			44.916	49.806	52.466	53.743	53.762
5	BOYNERIVER 350.00			39.482	43.542	45.786	47.59	47.584
6	BOYNERIVER 420.00			39.435	43.548	45.804	47.61	47.622
7	BOYNERIVER 420.00			39.435	43.548	45.804	47.61	47.622
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	38.938	43.21	45.621	47.337	47.373
9	BOYNERIVER 1383.80	B21.15		36.902	41.002	43.263	44.803	44.839
10	BOYNERIVER 1985.90	B20.6		34.449	38.454	40.548	41.979	42.02
11	BOYNERIVER 2182.33		Tucker Gully	34.115	38.082	40.188	41.636	41.678
12	BOYNERIVER 2182.33			34.115	38.082	40.188	41.636	41.678
13	BOYNERIVER 2462.80	B20.1		33.163	36.943	39.006	40.434	40.486
14	BOYNERIVER 3120.26		Coomal Ck	32.587	36.407	38.559	40.049	40.114
15	BOYNERIVER 3120.26			32.587	36.407	38.559	40.049	40.114
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	32.404	36.211	38.37	39.865	39.936
17	BOYNERIVER 3976.40	B18.3		31.034	34.595	36.664	38.171	38.262
18	BOYNERIVER 4740.10	B17.6		27.948	31.478	33.794	35.472	35.623
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	27.151	31.073	33.49	35.228	35.387
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	27.151	31.073	33.49	35.228	35.387
21	BOYNERIVER 5934.10	B16.7		26.825	30.908	33.369	35.137	35.298
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	26.364	30.562	33.053	34.837	35
23	BOYNERIVER 6676.80	B16.0		26.364	30.562	33.053	34.837	35
24	BOYNERIVER 7293.40	B15.5		25.854	30.149	32.687	34.493	34.66
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	25.313	29.678	32.249	34.074	34.242
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	25.313	29.678	32.249	34.074	34.242
27	BOYNERIVER 8522.40	B14.35		25.218	29.615	32.19	34.017	34.186
28	BOYNERIVER 8856.20	B14.0		25.2	29.603	32.181	34.009	34.177
29	BOYNERIVER 9247.40	B13.6		25.054	29.446	32.014	33.834	34.002
30	BOYNERIVER 9679.30	B13.2		24.868	29.239	31.803	33.62	33.787
31	BOYNERIVER 10080.40	B12.8		24.849	29.252	31.832	33.66	33.829
32	BOYNERIVER 10401.00			24.712	29.087	31.652	33.467	33.635
33	BOYNERIVER 10402.80			24.722	29.113	31.654	33.474	33.648
34	BOYNERIVER 10412.80	B12.5		24.733	29.087	31.631	33.513	33.732
35	BOYNERIVER 10414.00			24.708	29.086	31.649	33.466	33.635
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	24.675	29.056	31.625	33.443	33.611
37	BOYNERIVER 10832.90		Station Ck	24.58	28.948	31.509	33.321	33.488
38	BOYNERIVER 10832.90			24.58	28.948	31.509	33.321	33.488
39	BOYNERIVER 11254.50	B11.6		23.273	27.227	29.528	31.149	31.3
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	21.371	24.869	26.875	28.281	28.414
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	21.371	24.869	26.875	28.281	28.414
42	BOYNERIVER 12303.00			20.62	23.994	25.895	27.222	27.349
43	BOYNERIVER 12303.00		Boyne Trib1	20.62	23.994	25.895	27.222	27.349
44	BOYNERIVER 12455.40	B10.5		20.33	23.622	25.472	26.76	26.884
45	BOYNERIVER 12785.40		Machine Ck	19.637	22.823	24.611	25.855	25.975
46	BOYNERIVER 12785.40			19.637	22.823	24.611	25.855	25.975
47	BOYNERIVER 12874.90	B10.2		19.381	22.502	24.254	25.481	25.6
48	BOYNERIVER 13251.30	B9.8		19.18	22.345	24.122	25.371	25.493
49	BOYNERIVER 13865.90	B9.1		17.978	20.915	22.518	23.639	23.749
50	BOYNERIVER 14304.56		Wurdong Ck	17.424	20.285	21.817	22.886	22.992
51	BOYNERIVER 14304.56			17.424	20.285	21.817	22.886	22.992
52	BOYNERIVER 14472.20	B8.5		17.259	20.089	21.595	22.645	22.749
53	BOYNERIVER 14964.20	B8.0		16.772	19.63	21.143	22.207	22.313
54	BOYNERIVER 15341.20	B7.55		15.906	18.622	20.041	21.036	21.135
55	BOYNERIVER 15741.50	B7.2		15.477	18.128	19.595	20.625	20.728
56	BOYNERIVER 16062.90		O'L Boyne D/S	15.292	17.863	19.324	20.35	20.454
57	BOYNERIVER 16062.90			15.292	17.863	19.324	20.35	20.454
58	BOYNERIVER 16145.40	B6.8		15.258	17.817	19.279	20.305	20.409
59	BOYNERIVER 16727.90	B6.2		14.52	16.888	18.272	19.243	19.341
60	BOYNERIVER 17358.60	B5.55		13.826	16.106	17.446	18.39	18.486
61	BOYNERIVER 17722.19		South Trees	12.635	14.764	16.016	16.899	16.989
62	BOYNERIVER 17722.19			12.635	14.764	16.016	16.899	16.989
63	BOYNERIVER 17874.50			12.578	14.741	16.004	16.893	16.984
64	BOYNERIVER 18184.66		Cattle Ck	12.548	14.729	15.999	16.891	16.982
65	BOYNERIVER 18184.66			12.548	14.729	15.999	16.891	16.982
66	BOYNERIVER 18476.20	B4.5		12.203	14.312	15.533	16.388	16.475
67	BOYNERIVER 18884.20	B4.05		11.284	13.092	14.119	14.841	14.914
68	BOYNERIVER 19282.40	B3.65		11.18	13.038	14.103	14.85	14.926
69	BOYNERIVER 19869.50	B3.15		10.754	12.623	13.698	14.466	14.545
70	BOYNERIVER 20263.70	B2.75		10.074	11.79	12.766	13.469	13.542

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
71	BOYNERIVER 20684.60	B2.45		9.569	11.328	12.351	13.087	13.163
72	BOYNERIVER 20866.30	B2.25		9.429	11.144	12.133	12.845	12.919
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	8.615	10.25	11.215	11.907	11.979
74	BOYNERIVER 21471.70	B1.65		7.353	8.861	9.787	10.461	10.532
75	BOYNERIVER 21861.20	B1.2		6.391	7.529	8.176	8.634	8.681
76	BOYNERIVER 22251.30	B0.9		4.857	5.628	6.049	6.348	6.379
77	BOYNERIVER 22636.00	B0.5		2.42	2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1		36.107	38.018	38.578	40.081	40.163
79	COOMALCK 398.20	C2		32.602	36.403	38.571	40.074	40.137
80	COOMALCK 794.20	C3		32.595	36.414	38.565	40.067	40.126
81	COOMALCK 1209.50	C4		32.593	36.416	38.563	40.062	40.125
82	COOMALCK 1813.30	C5		32.591	36.413	38.554	40.05	40.115
83	COOMALCK 2352.80	C6		32.591	36.411	38.557	40.048	40.115
84	COOMALCK 3112.20	C7		32.589	36.409	38.561	40.052	40.113
85	COOMALCK 3751.30	C8		32.588	36.408	38.562	40.051	40.113
86	COOMALCK 4222.50	C9		32.587	36.407	38.56	40.049	40.114
87	COOMALCK 4305.00			32.587	36.407	38.559	40.049	40.114
88	YUNKACK 0.00	Y1		32.885	34.489	34.469	34.839	36.579
89	YUNKACK 574.20	Y2		26.367	30.563	33.054	34.837	35.001
90	YUNKACK 948.90	Y3		26.365	30.562	33.054	34.837	35.001
91	YUNKACK 1253.10	Y4		26.365	30.562	33.054	34.837	35.001
92	YUNKACK 1835.50	Y5		26.365	30.562	33.053	34.837	35
93	YUNKACK 2434.60	Y6		26.365	30.562	33.053	34.837	35
94	YUNKACK 2763.00	Y7		26.364	30.562	33.053	34.837	35
95	TUCKERGULLY 0.00			34.162	38.124	40.322	41.705	41.71
96	TUCKERGULLY 1066.80	TU-1		34.124	38.099	40.246	41.667	41.689
97	TUCKERGULLY 1965.80	TU-2		34.121	38.118	40.234	41.65	41.687
98	TUCKERGULLY 2491.10	TU-3		34.124	38.096	40.237	41.65	41.684
99	TUCKERGULLY 3217.50	TU-4		34.121	38.094	40.22	41.652	41.689
100	TUCKERGULLY 3966.50	TU-5		34.118	38.097	40.203	41.636	41.68
101	TUCKERGULLY 4522.10	TU-6		34.118	38.095	40.204	41.633	41.676
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	34.117	38.093	40.197	41.661	41.68
103	TUCKERGULLY 5765.40		Tucker Trib	34.117	38.089	40.193	41.644	41.68
104	TUCKERGULLY 5765.40			34.117	38.089	40.193	41.644	41.68
105	TUCKERGULLY 6350.10	TU-8		34.116	38.084	40.189	41.639	41.674
106	TUCKERGULLY 6669.00	TU-9		34.115	38.082	40.188	41.636	41.678
107	TUCKERTRIB 0.00			34.125	38.103	40.2	41.658	41.694
108	TUCKERTRIB 206.20	T1-1		34.124	38.101	40.199	41.658	41.693
109	TUCKERTRIB 730.40	T1-2		34.124	38.099	40.198	41.649	41.689
110	TUCKERTRIB 1416.70	T1-3		34.125	38.097	40.209	41.638	41.679
111	TUCKERTRIB 1944.80	T1-4		34.124	38.08	40.21	41.652	41.682
112	TUCKERTRIB 2331.50	T1-5		34.122	38.078	40.199	41.637	41.681
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	34.118	38.09	40.191	41.626	41.685
114	TUCKERTRIB 3377.00			34.117	38.089	40.193	41.644	41.68
115	STATIONCK 0.00	S1		24.622	28.99	31.55	33.361	33.528
116	STATIONCK 684.50	S2		24.622	28.99	31.55	33.361	33.528
117	STATIONCK 1599.70	S3		24.621	28.99	31.55	33.36	33.527
118	STATIONCK 2431.30	S4		24.621	28.989	31.549	33.36	33.527
119	STATIONCK 3013.70	S5		24.62	28.988	31.548	33.359	33.526
120	STATIONCK 3734.90	S6	Bruce H'way	24.619	28.987	31.547	33.358	33.525
121	STATIONCK 4481.70	S7		24.618	28.986	31.546	33.357	33.524
122	STATIONCK 5140.80	S8		24.617	28.985	31.545	33.356	33.523
123	STATIONCK 5918.90	S9		24.616	28.984	31.544	33.355	33.522
124	STATIONCK 6575.50	S10		24.614	28.982	31.543	33.354	33.521
125	STATIONCK 6954.40		O'L Station D/S	24.613	28.981	31.542	33.353	33.52
126	STATIONCK 6954.40			24.613	28.981	31.542	33.353	33.52
127	STATIONCK 7691.00	S11		24.58	28.948	31.509	33.321	33.488
128	MACHINECK 0.00	M1		31.43	34.181	34.203	34.288	33.615
129	MACHINECK 726.30	M2		26.712	29.298	29.313	29.39	28.714
130	MACHINECK 1186.80	M3		25.602	27.084	27.093	27.142	26.615
131	MACHINECK 1699.10	M4		21.703	23.586	24.614	25.858	25.979
132	MACHINECK 2214.80	M5		19.64	22.825	24.614	25.858	25.978
133	MACHINECK 2730.60	M6		19.64	22.825	24.613	25.858	25.978
134	MACHINECK 3140.90	M7		19.639	22.825	24.613	25.858	25.978
135	MACHINECK 3611.90	M8		19.639	22.825	24.613	25.857	25.977
136	MACHINECK 4246.80	M9	Road/Rail X-ing	19.639	22.825	24.612	25.857	25.977
137	MACHINECK 5099.90	M10		19.639	22.824	24.612	25.857	25.977
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	19.638	22.823	24.611	25.856	25.976
139	MACHINECK 6711.00	M12		19.637	22.823	24.611	25.855	25.975
140	O'LSATION 0.00			25.313	29.678	32.249	34.074	34.242
141	O'LSATION 304.10	O2-1		25.259	29.638	32.211	34.037	34.206
142	O'LSATION 1252.20	O2-2		25.101	29.503	32.08	33.908	34.077

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
143	O'NSTATION 1924.60	O2-3		24.894	29.274	31.84	33.657	33.825
144	O'NSTATION 2385.50			24.694	29.06	31.618	33.429	33.597
145	O'NSTATION 2588.00	O2-4	Bruce H'way	24.613	28.981	31.542	33.353	33.52
146	WURDONGCK 0.00	W1		24.656	26.604	26.598	26.761	27.313
147	WURDONGCK 616.40	W2		20.003	21.383	21.819	22.888	22.993
148	WURDONGCK 1311.60	W3		17.427	20.287	21.819	22.887	22.993
149	WURDONGCK 1752.90	W4		17.426	20.286	21.818	22.887	22.993
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	17.426	20.287	21.818	22.887	22.993
151	WURDONGCK 3446.50	W6		17.426	20.286	21.818	22.887	22.992
152	WURDONGCK 4664.00	W7		17.424	20.285	21.817	22.886	22.992
153	BOYNETRIB1 0.00	T2-1		24.039	24.036	25.896	27.223	27.35
154	BOYNETRIB1 573.10	T2-2		20.621	23.995	25.895	27.223	27.35
155	BOYNETRIB1 1368.30	T2-3		20.62	23.995	25.895	27.222	27.349
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	20.62	23.995	25.895	27.222	27.349
157	BOYNETRIB1 2194.80	T2-5		20.62	23.995	25.895	27.222	27.349
158	BOYNETRIB1 2663.00	T2-6		20.62	23.994	25.895	27.222	27.349
159	BOYNETRIB2 0.00	T3-1		21.372	24.87	26.876	28.282	28.415
160	BOYNETRIB2 381.20	T3-2		21.372	24.87	26.876	28.281	28.415
161	BOYNETRIB2 713.60	T3-3		21.371	24.87	26.876	28.281	28.415
162	BOYNETRIB2 1247.10	T3-4		21.372	24.869	26.875	28.281	28.415
163	BOYNETRIB2 1804.00	T3-5		21.371	24.869	26.875	28.281	28.414
164	O'LANDBOYNE 0.00			21.371	24.869	26.875	28.281	28.414
165	O'LANDBOYNE 462.10	O3-1		17.81	20.477	22.034	23.145	23.253
166	O'LANDBOYNE 843.90	O3-2		16.577	18.963	20.341	21.3	21.396
167	O'LANDBOYNE 1492.50	O3-3		15.457	17.975	19.42	20.44	20.543
168	O'LANDBOYNE 1924.31		O'Land01 U/S	15.292	17.863	19.324	20.349	20.453
169	O'LANDBOYNE 1924.31			15.292	17.863	19.324	20.349	20.453
170	O'LANDBOYNE 2032.00	O3-4		15.292	17.863	19.324	20.35	20.454
171	O'LAND01 0.00			15.292	17.863	19.324	20.349	20.453
172	O'LAND01 415.30	O4-01		14.753	17.21	18.611	19.596	19.696
173	O'LAND01 1018.80	O4-02		14.232	16.68	18.072	19.05	19.149
174	O'LAND01 1360.20	O4-03		14.011	16.471	17.864	18.843	18.942
175	O'LAND01 1988.30	O4-04		13.74	16.186	17.567	18.537	18.636
176	O'LAND01 2586.50	O4-05		13.569	15.99	17.352	18.31	18.407
177	O'LAND01 3091.00	O4-06		13.127	15.472	16.778	17.693	17.787
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	13.128	15.473	16.779	17.694	17.787
179	CATTLECK 743.60	CC2		13.127	15.473	16.779	17.694	17.787
180	CATTLECK 1293.10	CC3		13.127	15.472	16.779	17.694	17.787
181	CATTLECK 1994.43		O'Land 01 D/S	13.127	15.472	16.778	17.693	17.787
182	CATTLECK 1994.43			13.127	15.472	16.778	17.693	17.787
183	CATTLECK 2124.80	CC4		12.862	15.148	16.437	17.334	17.426
184	CATTLECK 2335.00			12.548	14.729	15.999	16.891	16.982
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	12.635	14.764	16.016	16.899	16.989
186	STHTREES 851.80	ST2		11.691	13.95	15.232	16.13	16.222
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	11.439	13.699	14.982	15.879	15.971
188	STHTREES 2361.30	ST4		11.23	13.485	14.766	15.661	15.753
189	STHTREES 2829.50	ST5		11.166	13.428	14.714	15.611	15.704
190	STHTREES 3773.50	ST6		11.015	13.261	14.536	15.427	15.518
191	STHTREES 4171.60	ST7		10.913	13.13	14.386	15.262	15.352
192	STHTREES 4595.40	ST8		10.713	12.883	14.108	14.961	15.048
193	STHTREES 5122.39		Ten Mile Ck	10.432	12.566	13.781	14.628	14.716
194	STHTREES 5122.39			10.432	12.566	13.781	14.628	14.716
195	STHTREES 5493.40	ST9		10.194	12.253	13.425	14.24	14.324
196	STHTREES 6390.90	ST10		8.793	10.572	11.582	12.282	12.354
197	STHTREES 7658.80	ST11		7.237	8.838	9.739	10.357	10.423
198	STHTREES 8251.05		Eleven Mile Ck	7.074	8.628	9.502	10.101	10.164
199	STHTREES 8251.05			7.074	8.628	9.502	10.101	10.164
200	STHTREES 9287.10	ST12		6.655	8.102	8.912	9.463	9.521
201	STHTREES 11258.10	ST13		5.724	6.956	7.633	8.091	8.139
202	STHTREES 12688.10	ST14		4.959	5.996	6.559	6.93	6.968
203	STHTREES 14444.90	ST15		4.276	5.08	5.469	5.686	5.707
204	STHTREES 17478.00	ST16		2.42	2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	10.433	12.567	13.781	14.629	14.717
206	TENMILECK 510.20	T4-2		10.433	12.567	13.781	14.629	14.717
207	TENMILECK 1040.50	T4-3		10.433	12.567	13.781	14.629	14.716
208	TENMILECK 1753.90	T4-4		10.432	12.566	13.781	14.629	14.716
209	TENMILECK 2298.00	T4-5		10.432	12.566	13.781	14.628	14.716
210	ELEVENMILECK 0.00	T5-1		11.256	13.072	13.083	13.129	12.456
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	7.08	8.629	9.503	10.102	10.165
212	ELEVENMILECK 1811.40	T5-3		7.074	8.629	9.503	10.102	10.165
213	ELEVENMILECK 3118.20	T5-4		7.074	8.628	9.502	10.101	10.165
214	ELEVENMILECK 3887.00			7.074	8.628	9.502	10.101	10.164

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL45

PMF - Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
215	LITTLEOAKYCK 0.00	O1-1A		27.153	31.073	33.491	35.229	35.387
216	LITTLEOAKYCK 670.00	O1-2A		27.151	31.073	33.49	35.228	35.387
217	LITTLEOAKYCK 1834.00	O1-3A		27.151	31.073	33.49	35.228	35.387
218	LITTLEOAKYCK 1958.00			27.151	31.073	33.49	35.228	35.387
219	SPILLWAY 0.00			44.931	49.806	52.466	53.744	53.762
220	SPILLWAY 300.00			39.435	43.548	45.804	47.61	47.622

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

### Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time			
1	BOYNERIVER 0.00			9/01/2003 9:11	44.927	9/01/2003 10:50	1:39:59	0.5	0
2	BOYNERIVER 100.00			9/01/2003 9:11	44.931	9/01/2003 9:11	0:00:00	64273.316	3.668
3	BOYNERIVER 100.00			9/01/2003 9:11	44.931	9/01/2003 9:11	0:00:00	56582.691	3.229
4	BOYNERIVER 150.00			9/01/2003 9:11	44.916	9/01/2003 10:50	1:39:59	55890.504	4.863
5	BOYNERIVER 350.00			9/01/2003 9:11	39.482	9/01/2003 14:11	5:00:00	53102.535	4.689
6	BOYNERIVER 420.00			9/01/2003 9:11	39.435	9/01/2003 14:11	5:00:00	52466.711	4.558
7	BOYNERIVER 420.00			9/01/2003 9:11	39.435	9/01/2003 14:11	5:00:00	50906.691	4.423
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	38.938	9/01/2003 14:11	5:00:00	49914.906	4.016
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	36.902	9/01/2003 14:11	5:00:00	49831.258	5.531
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	34.449	9/01/2003 15:01	5:50:00	49719.031	6.37
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	34.115	9/01/2003 15:01	5:50:00	49654.34	5.816
12	BOYNERIVER 2182.33			9/01/2003 9:11	34.115	9/01/2003 15:01	5:50:00	45442.383	5.248
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	33.163	9/01/2003 15:01	5:50:00	45326.602	5.454
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	32.587	9/01/2003 15:01	5:50:00	44856.371	2.951
15	BOYNERIVER 3120.26			9/01/2003 9:11	32.587	9/01/2003 15:01	5:50:00	42697.227	2.809
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	32.404	9/01/2003 15:01	5:50:00	42495.004	2.725
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	31.034	9/01/2003 15:01	5:50:00	42539.539	4.134
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	27.948	9/01/2003 15:01	5:50:00	42522.852	6.416
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	27.151	9/01/2003 15:50	6:39:59	42413.664	3.709
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	27.151	9/01/2003 15:50	6:39:59	41357.41	3.139
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	26.825	9/01/2003 16:41	7:30:00	41188.816	2.774
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	26.364	9/01/2003 17:30	8:19:59	40784.73	2.501
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	26.364	9/01/2003 17:30	8:19:59	40118.93	2.302
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	25.854	9/01/2003 17:30	8:19:59	39711.211	3.508
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	25.313	9/01/2003 17:30	8:19:59	39152.258	3.478
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	25.313	9/01/2003 17:30	8:19:59	24218.645	2.911
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	25.218	9/01/2003 17:30	8:19:59	23859.732	2.56
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	25.2	9/01/2003 17:30	8:19:59	23578.848	1.586
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	25.054	9/01/2003 18:21	9:10:00	23310.674	3.182
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	24.868	9/01/2003 18:21	9:10:00	23133.553	3.864
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	24.849	9/01/2003 18:21	9:10:00	22903.031	3.092
32	BOYNERIVER 10401.00			9/01/2003 9:11	24.712	9/01/2003 18:21	9:10:00	22672.074	3.628
33	BOYNERIVER 10402.80			9/01/2003 9:11	24.722	9/01/2003 18:21	9:10:00	22671.842	3.63
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	24.733	9/01/2003 18:21	9:10:00	22676.678	3.636
35	BOYNERIVER 10414.00			9/01/2003 9:11	24.708	9/01/2003 18:21	9:10:00	22676.686	3.635
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	24.675	9/01/2003 18:21	9:10:00	22542.854	3.392
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	24.58	9/01/2003 18:21	9:10:00	22427.926	4.339
38	BOYNERIVER 10832.90			9/01/2003 9:11	24.58	9/01/2003 18:21	9:10:00	26778.09	3.49
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	23.273	9/01/2003 18:21	9:10:00	26760.287	5.281
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	21.371	9/01/2003 18:21	9:10:00	26734.992	5.523
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	21.371	9/01/2003 18:21	9:10:00	17242.162	3.671
42	BOYNERIVER 12303.00			9/01/2003 9:11	20.62	9/01/2003 19:11	10:00:00	17219.635	3.931
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	20.62	9/01/2003 19:11	10:00:00	16926.609	3.785
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	20.33	9/01/2003 19:11	10:00:00	16918.643	3.958
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	19.637	9/01/2003 19:11	10:00:00	16898.197	4.353
46	BOYNERIVER 12785.40			9/01/2003 9:11	19.637	9/01/2003 19:11	10:00:00	16476.271	3.969
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	19.381	9/01/2003 19:11	10:00:00	16474.238	4.129
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	19.18	9/01/2003 19:11	10:00:00	16462.861	2.753
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	17.978	9/01/2003 19:11	10:00:00	16439.361	4.101
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	17.424	9/01/2003 19:11	10:00:00	16420.666	3.237
51	BOYNERIVER 14304.56			9/01/2003 9:11	17.424	9/01/2003 19:11	10:00:00	16111.86	3.068
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	17.259	9/01/2003 19:11	10:00:00	16110.359	2.847
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	16.772	9/01/2003 19:11	10:00:00	16103.057	2.347
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	15.906	9/01/2003 19:11	10:00:00	16096.155	3.388
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	15.477	9/01/2003 19:11	10:00:00	16087.23	2.364
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	15.292	9/01/2003 19:11	10:00:00	16077.736	1.718
57	BOYNERIVER 16062.90			9/01/2003 9:11	15.292	9/01/2003 19:11	10:00:00	16215.12	1.777
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	15.258	9/01/2003 19:11	10:00:00	16212.524	1.661
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	14.52	9/01/2003 20:00	10:49:59	16198.544	3.336
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	13.826	9/01/2003 20:00	10:49:59	16186.718	3.468
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	12.635	9/01/2003 20:00	10:49:59	16178.233	5.67
62	BOYNERIVER 17722.19			9/01/2003 9:11	12.635	9/01/2003 20:00	10:49:59	5080.704	2.722
63	BOYNERIVER 17874.50			9/01/2003 9:11	12.578	9/01/2003 20:00	10:49:59	5057.885	3.173
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	12.548	9/01/2003 20:00	10:49:59	5007.599	2.772
65	BOYNERIVER 18184.66			9/01/2003 9:11	12.548	9/01/2003 20:00	10:49:59	12888.345	4.164
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	12.203	9/01/2003 20:00	10:49:59	12887.799	3.637
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	11.284	9/01/2003 20:00	10:49:59	12886.856	4.164
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	11.18	9/01/2003 20:00	10:49:59	12885.25	2.445
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	10.754	9/01/2003 20:00	10:49:59	12880.36	2.046
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	10.074	9/01/2003 20:00	10:49:59	12876.92	3.077
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	9.569	9/01/2003 20:00	10:49:59	12873.357	2.528

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

### Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	9.429	9/01/2003 20:00	10:49:59	12871.357	2.167
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	8.615	9/01/2003 20:00	10:49:59	12867.296	3.242
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	7.353	9/01/2003 20:00	10:49:59	12866.044	5.896
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	6.391	9/01/2003 20:00	10:49:59	12863.872	3.251
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	4.857	9/01/2003 20:00	10:49:59	12861.027	3.46
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	12859.667	10.741
78	COOMALCK 0.00	C1		9/01/2003 9:11	36.107	9/01/2003 18:21	9:10:00	6	0.916
79	COOMALCK 398.20	C2		9/01/2003 9:11	32.602	9/01/2003 15:01	5:50:00	6.713	0.704
80	COOMALCK 794.20	C3		9/01/2003 9:11	32.595	9/01/2003 15:01	5:50:00	12.6	0.595
81	COOMALCK 1209.50	C4		9/01/2003 9:11	32.593	9/01/2003 15:01	5:50:00	29.203	0.639
82	COOMALCK 1813.30	C5		9/01/2003 9:11	32.591	9/01/2003 15:01	5:50:00	58.245	1.381
83	COOMALCK 2352.80	C6		9/01/2003 9:11	32.591	9/01/2003 15:01	5:50:00	131.456	0.452
84	COOMALCK 3112.20	C7		9/01/2003 9:11	32.589	9/01/2003 15:01	5:50:00	292.394	1.409
85	COOMALCK 3751.30	C8		9/01/2003 9:11	32.588	9/01/2003 15:01	5:50:00	445.155	0.376
86	COOMALCK 4222.50	C9		9/01/2003 9:11	32.587	9/01/2003 15:01	5:50:00	532.158	1.595
87	COOMALCK 4305.00			9/01/2003 9:11	32.587	9/01/2003 15:01	5:50:00	539.491	2.99
88	YUNKACK 0.00	Y1		9/01/2003 9:11	32.885	9/01/2003 23:21	14:10:00	3.5	0.626
89	YUNKACK 574.20	Y2		9/01/2003 9:11	26.367	9/01/2003 17:30	8:19:59	7.107	1.236
90	YUNKACK 948.90	Y3		9/01/2003 9:11	26.365	9/01/2003 17:30	8:19:59	15.203	0.518
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	26.365	9/01/2003 17:30	8:19:59	36.747	0.997
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	26.365	9/01/2003 17:30	8:19:59	122.104	0.551
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	26.365	9/01/2003 17:30	8:19:59	277.024	0.423
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	26.364	9/01/2003 17:30	8:19:59	376.71	4.391
95	TUCKERGULLY 0.00			9/01/2003 9:11	34.162	9/01/2003 15:01	5:50:00	2.5	0.217
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	34.124	9/01/2003 15:01	5:50:00	12.817	0.96
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	34.121	9/01/2003 15:01	5:50:00	42.169	0.707
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	34.124	9/01/2003 15:01	5:50:00	71.764	0.706
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	34.121	9/01/2003 15:01	5:50:00	146.525	0.704
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	34.118	9/01/2003 15:01	5:50:00	255.526	0.561
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	34.118	9/01/2003 15:01	5:50:00	379.711	0.507
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	34.117	9/01/2003 15:01	5:50:00	596.32	0.818
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	34.117	9/01/2003 15:01	5:50:00	688.893	0.396
104	TUCKERGULLY 5765.40			9/01/2003 9:11	34.117	9/01/2003 15:01	5:50:00	1119.998	0.792
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	34.116	9/01/2003 15:01	5:50:00	1361.133	0.182
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	34.115	9/01/2003 15:01	5:50:00	1531.865	0.349
107	TUCKERTRIB 0.00			9/01/2003 9:11	34.125	9/01/2003 15:01	5:50:00	2.5	0.28
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	34.124	9/01/2003 15:01	5:50:00	7.184	0.809
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	34.124	9/01/2003 15:01	5:50:00	33.116	1.227
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	34.125	9/01/2003 15:01	5:50:00	96.782	0.865
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	34.124	9/01/2003 15:01	5:50:00	191.577	0.324
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	34.122	9/01/2003 15:01	5:50:00	274.694	0.841
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	34.118	9/01/2003 15:01	5:50:00	366.489	0.436
114	TUCKERTRIB 3377.00			9/01/2003 9:11	34.117	9/01/2003 15:01	5:50:00	431.105	6.069
115	STATIONCK 0.00	S1		9/01/2003 9:11	24.622	9/01/2003 18:21	9:10:00	0.5	0.169
116	STATIONCK 684.50	S2		9/01/2003 9:11	24.622	9/01/2003 18:21	9:10:00	265.515	0.231
117	STATIONCK 1599.70	S3		9/01/2003 9:11	24.621	9/01/2003 18:21	9:10:00	641.928	0.169
118	STATIONCK 2431.30	S4		9/01/2003 9:11	24.621	9/01/2003 18:21	9:10:00	959.14	0.199
119	STATIONCK 3013.70	S5		9/01/2003 9:11	24.62	9/01/2003 18:21	9:10:00	1213.035	0.114
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	24.619	9/01/2003 18:21	9:10:00	1553.027	0.175
121	STATIONCK 4481.70	S7		9/01/2003 9:11	24.618	9/01/2003 18:21	9:10:00	1884.232	0.1
122	STATIONCK 5140.80	S8		9/01/2003 9:11	24.617	9/01/2003 18:21	9:10:00	2231.16	0.116
123	STATIONCK 5918.90	S9		9/01/2003 9:11	24.616	9/01/2003 18:21	9:10:00	2685.244	0.163
124	STATIONCK 6575.50	S10		9/01/2003 9:11	24.614	9/01/2003 18:21	9:10:00	2972.006	0.288
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	24.613	9/01/2003 18:21	9:10:00	3095.949	0.357
126	STATIONCK 6954.40			9/01/2003 9:11	24.613	9/01/2003 18:21	9:10:00	12278.183	0.7
127	STATIONCK 7691.00	S11		9/01/2003 9:11	24.58	9/01/2003 18:21	9:10:00	12429.54	0.732
128	MACHINECK 0.00	M1		9/01/2003 9:11	31.43	9/01/2003 9:11	0:00:00	0.5	0.208
129	MACHINECK 726.30	M2		9/01/2003 9:11	26.712	9/01/2003 9:11	0:00:00	0.5	0.207
130	MACHINECK 1186.80	M3		9/01/2003 9:11	25.602	9/01/2003 9:11	0:00:00	0.5	0.065
131	MACHINECK 1699.10	M4		9/01/2003 9:11	21.703	10/01/2003 5:11	20:00:00	0.511	0.04
132	MACHINECK 2214.80	M5		9/01/2003 9:11	19.64	9/01/2003 19:11	10:00:00	6.079	3.952
133	MACHINECK 2730.60	M6		9/01/2003 9:11	19.64	9/01/2003 19:11	10:00:00	14.142	0.181
134	MACHINECK 3140.90	M7		9/01/2003 9:11	19.639	9/01/2003 19:11	10:00:00	34.892	0.62
135	MACHINECK 3611.90	M8		9/01/2003 9:11	19.639	9/01/2003 19:11	10:00:00	76.813	0.26
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	19.639	9/01/2003 19:11	10:00:00	169.048	1.599
137	MACHINECK 5099.90	M10		9/01/2003 9:11	19.639	9/01/2003 19:11	10:00:00	307.327	0.526
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	19.638	9/01/2003 19:11	10:00:00	430.856	0.055
139	MACHINECK 6711.00	M12		9/01/2003 9:11	19.637	9/01/2003 19:11	10:00:00	539.498	0.115
140	O'NSTATION 0.00			9/01/2003 9:11	25.313	9/01/2003 17:30	8:19:59	16034.19	1.512
141	O'NSTATION 304.10	O2-1		9/01/2003 9:11	25.259	9/01/2003 17:30	8:19:59	15863.259	1.521
142	O'NSTATION 1252.20	O2-2		9/01/2003 9:11	25.101	9/01/2003 18:21	9:10:00	15327.919	2.676
143	O'NSTATION 1924.60	O2-3		9/01/2003 9:11	24.894	9/01/2003 18:21	9:10:00	15003.431	2.75
144	O'NSTATION 2385.50			9/01/2003 9:11	24.694	9/01/2003 18:21	9:10:00	14803.061	4.897
145	O'NSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	24.613	9/01/2003 18:21	9:10:00	14704.255	8.215

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

### Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
146	WURDONGCK 0.00	W1		9/01/2003 9:11	24.656	9/01/2003 19:11	10:00:00	0.5	0.278
147	WURDONGCK 616.40	W2		9/01/2003 9:11	20.003	9/01/2003 15:50	6:39:59	18.251	2.599
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	17.427	9/01/2003 19:11	10:00:00	18.985	1.306
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	17.426	9/01/2003 19:11	10:00:00	23.198	3.909
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	17.426	9/01/2003 19:11	10:00:00	145.972	3.197
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	17.426	9/01/2003 19:11	10:00:00	410.381	0.124
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	17.424	9/01/2003 19:11	10:00:00	730.749	0.379
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	24.039	10/01/2003 11:01	25:50:00	3.5	0.608
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	20.621	9/01/2003 19:11	10:00:00	10.976	1.221
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	20.62	9/01/2003 19:11	10:00:00	72.928	0.121
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	20.62	9/01/2003 19:11	10:00:00	142.116	0.5
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	20.62	9/01/2003 19:11	10:00:00	194.504	1.331
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	20.62	9/01/2003 19:11	10:00:00	251.194	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	21.372	9/01/2003 18:21	9:10:00	1.5	0.208
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	21.372	9/01/2003 18:21	9:10:00	32.407	0.788
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	21.371	9/01/2003 18:21	9:10:00	71.903	0.719
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	21.372	9/01/2003 18:21	9:10:00	152.055	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	21.371	9/01/2003 18:21	9:10:00	248.573	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	21.371	9/01/2003 18:21	9:10:00	9620.642	4.467
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	17.81	9/01/2003 19:11	10:00:00	9617.79	6.011
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	16.577	9/01/2003 19:11	10:00:00	9610.769	2.947
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	15.457	9/01/2003 19:11	10:00:00	9570.623	4.166
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	15.292	9/01/2003 19:11	10:00:00	9518.541	1.481
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	15.292	9/01/2003 19:11	10:00:00	2370.665	0.958
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	15.292	9/01/2003 19:11	10:00:00	2299.236	1.254
171	O'LAND01 0.00			9/01/2003 9:11	15.292	9/01/2003 19:11	10:00:00	9322.416	1.982
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	14.753	9/01/2003 20:00	10:49:59	9312.271	2.143
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	14.232	9/01/2003 20:00	10:49:59	9288.751	1.829
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	14.011	9/01/2003 20:00	10:49:59	9269.139	1.528
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	13.74	9/01/2003 20:00	10:49:59	9224.148	1.24
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	13.569	9/01/2003 20:00	10:49:59	9173.687	1.092
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	13.127	9/01/2003 20:00	10:49:59	9140.736	2.664
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	13.128	9/01/2003 20:00	10:49:59	0.5	0.017
179	CATTLECK 743.60	CC2		9/01/2003 9:11	13.127	9/01/2003 20:00	10:49:59	60.251	0.195
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	13.127	9/01/2003 20:00	10:49:59	123.634	0.066
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	13.127	9/01/2003 20:00	10:49:59	212.18	0.053
182	CATTLECK 1994.43			9/01/2003 9:11	13.127	9/01/2003 20:00	10:49:59	9135.99	1.331
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	12.862	9/01/2003 20:00	10:49:59	9135.724	2.551
184	CATTLECK 2335.00			9/01/2003 9:11	12.548	9/01/2003 20:00	10:49:59	9135.152	2.689
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	12.635	9/01/2003 20:00	10:49:59	12463.94	1.942
186	STHTREES 851.80	ST2		9/01/2003 9:11	11.691	9/01/2003 20:51	11:40:00	12319.271	1.492
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	11.439	9/01/2003 20:51	11:40:00	12156.011	1.576
188	STHTREES 2361.30	ST4		9/01/2003 9:11	11.23	9/01/2003 20:51	11:40:00	12007.697	1.302
189	STHTREES 2829.50	ST5		9/01/2003 9:11	11.166	9/01/2003 20:51	11:40:00	11959.399	1.021
190	STHTREES 3773.50	ST6		9/01/2003 9:11	11.015	9/01/2003 20:51	11:40:00	11853.662	0.921
191	STHTREES 4171.60	ST7		9/01/2003 9:11	10.913	9/01/2003 20:51	11:40:00	11819.739	1.169
192	STHTREES 4595.40	ST8		9/01/2003 9:11	10.713	9/01/2003 20:51	11:40:00	11792.329	1.645
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	10.432	9/01/2003 20:51	11:40:00	11761.694	1.727
194	STHTREES 5122.39			9/01/2003 9:11	10.432	9/01/2003 20:51	11:40:00	11691.697	1.702
195	STHTREES 5493.40	ST9		9/01/2003 9:11	10.194	9/01/2003 20:51	11:40:00	11693.105	1.867
196	STHTREES 6390.90	ST10		9/01/2003 9:11	8.793	9/01/2003 20:51	11:40:00	11692.741	4.395
197	STHTREES 7658.80	ST11		9/01/2003 9:11	7.237	9/01/2003 21:41	12:30:00	11641.954	1.019
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	7.074	9/01/2003 21:41	12:30:00	11594.586	1.118
199	STHTREES 8251.05			9/01/2003 9:11	7.074	9/01/2003 21:41	12:30:00	11471.943	1.078
200	STHTREES 9287.10	ST12		9/01/2003 9:11	6.655	9/01/2003 21:41	12:30:00	11391.017	1.323
201	STHTREES 11258.10	ST13		9/01/2003 9:11	5.724	9/01/2003 21:41	12:30:00	11365.354	1.141
202	STHTREES 12688.10	ST14		9/01/2003 9:11	4.959	9/01/2003 22:30	13:19:59	11311.735	1.222
203	STHTREES 14444.90	ST15		9/01/2003 9:11	4.276	9/01/2003 22:30	13:19:59	11193.903	0.743
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	11213.968	2.083
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	10.433	9/01/2003 20:51	11:40:00	3.5	0.735
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	10.433	9/01/2003 20:51	11:40:00	14.149	0.642
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	10.433	9/01/2003 20:51	11:40:00	38.955	0.02
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	10.432	9/01/2003 20:51	11:40:00	83.177	0.034
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	10.432	9/01/2003 20:51	11:40:00	134.142	0.035
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	11.256	10/01/2003 16:01	30:50:00	1.5	0.205
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	7.08	9/01/2003 21:41	12:30:00	17.899	1.486
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	7.074	9/01/2003 21:41	12:30:00	38.181	0.021
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	7.074	9/01/2003 21:41	12:30:00	130.262	0.035
214	ELEVENMILECK 3887.00			9/01/2003 9:11	7.074	9/01/2003 21:41	12:30:00	189.255	0.053
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	27.153	9/01/2003 15:50	6:39:59	2.5	0.915
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	27.151	9/01/2003 15:50	6:39:59	219.47	0.883
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	27.151	9/01/2003 15:50	6:39:59	833.587	0.124
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	27.151	9/01/2003 15:50	6:39:59	899.518	0.132
219	SPILLWAY 0.00			9/01/2003 9:11	44.931	9/01/2003 9:11	0:00:00	7690.623	0.537



**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL45

Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
220	SPILLWAY 300.00			9/01/2003 9:11	39.435	9/01/2003 14:11	5:00:00	46.443	0.005

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
1	BOYNERIVER 0.00			9/01/2003 9:11	49.807	10/01/2003 0:51	15:40:00	20074.467	1.027	49.807	10/01/2003 0:51	15:40:00	20074.467	1.027
2	BOYNERIVER 100.00			9/01/2003 9:11	49.806	10/01/2003 0:51	15:40:00	88477.5	4.525	49.806	10/01/2003 0:51	15:40:00	5862.436	0.276
3	BOYNERIVER 100.00			9/01/2003 9:11	49.806	10/01/2003 0:51	15:40:00	75518.625	3.881	49.806	10/01/2003 0:51	15:40:00	53.823	0.003
4	BOYNERIVER 150.00			9/01/2003 9:11	49.806	10/01/2003 0:51	15:40:00	74504.172	5.578	49.806	10/01/2003 0:51	15:40:00	45.002	0.003
5	BOYNERIVER 350.00			9/01/2003 9:11	43.542	10/01/2003 4:44	19:33:19	70539.953	5.405	20.386	10/01/2003 2:04	16:53:20	44.496	1.262
6	BOYNERIVER 420.00			9/01/2003 9:11	43.548	10/01/2003 4:44	19:33:19	69662.188	5.16	20.386	10/01/2003 2:04	16:53:20	58.959	1.334
7	BOYNERIVER 420.00			9/01/2003 9:11	43.548	10/01/2003 4:44	19:33:19	69189.82	5.209	20.386	10/01/2003 2:04	16:53:20	5856.276	1.747
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	43.21	10/01/2003 4:50	19:39:59	67367.898	4.289	19.919	10/01/2003 2:04	16:53:20	5854.904	2.186
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	41.002	10/01/2003 5:04	19:53:20	66998.977	6.575	19.419	10/01/2003 2:17	17:06:39	5853.441	1.844
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	38.454	10/01/2003 5:17	20:06:39	66755.867	7.698	18.697	10/01/2003 2:31	17:20:00	5851.58	2.28
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	38.082	10/01/2003 5:17	20:06:39	66644.336	6.96	18.571	10/01/2003 2:31	17:20:00	5850.739	1.759
12	BOYNERIVER 2182.33			9/01/2003 9:11	38.082	10/01/2003 5:17	20:06:39	60837.723	5.967	18.571	10/01/2003 2:31	17:20:00	5833.972	1.742
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	36.943	10/01/2003 5:24	20:13:19	60784.16	6.167	18.208	10/01/2003 2:44	17:33:19	5832.177	2.171
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	36.407	10/01/2003 5:24	20:13:19	60560.777	3.283	17.905	10/01/2003 3:11	18:00:00	5825.958	1.162
15	BOYNERIVER 3120.26			9/01/2003 9:11	36.407	10/01/2003 5:24	20:13:19	59739.375	3.154	17.905	10/01/2003 3:11	18:00:00	5884.445	1.151
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	36.211	10/01/2003 5:24	20:13:19	59679.203	3.041	17.822	10/01/2003 3:11	18:00:00	5873.085	1.18
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	34.595	10/01/2003 5:37	20:26:40	59496.211	4.727	17.356	10/01/2003 4:11	19:00:00	5817.193	1.787
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	31.478	10/01/2003 7:17	22:06:39	59337.004	7.061	16.188	10/01/2003 4:11	19:00:00	5803.958	2.639
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	31.073	10/01/2003 7:37	22:26:40	59069.617	4.034	15.81	10/01/2003 4:24	19:13:19	5801.158	1.144
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	31.073	10/01/2003 7:37	22:26:40	56948.086	3.728	15.81	10/01/2003 4:24	19:13:19	5730.038	1.117
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	30.908	10/01/2003 7:44	22:33:19	56717.734	2.828	15.443	10/01/2003 4:24	19:13:19	5723.74	2.038
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	56180.18	2.654	14.913	10/01/2003 4:44	19:33:19	5711.717	1.549
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	55306.586	2.564	14.913	10/01/2003 4:44	19:33:19	5702.087	1.542
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	30.149	10/01/2003 8:04	22:53:20	54802.188	3.597	14.543	10/01/2003 5:04	19:53:20	5693.821	1.634
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	29.678	10/01/2003 8:17	23:06:39	54117.047	3.759	14.101	10/01/2003 5:24	20:13:19	5682.16	1.827
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	29.678	10/01/2003 8:17	23:06:39	29169.896	2.195	14.101	10/01/2003 5:24	20:13:19	5431.448	1.809
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	29.615	10/01/2003 8:17	23:06:39	28709.033	2.381	13.888	10/01/2003 5:37	20:26:40	5421.239	1.534
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	29.603	10/01/2003 8:17	23:06:39	28362.523	1.588	13.832	10/01/2003 5:37	20:26:40	5413.134	1.042
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	29.446	10/01/2003 8:24	23:13:19	28057.133	3.232	13.68	10/01/2003 5:44	20:33:19	5404.99	1.353
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	29.239	10/01/2003 8:24	23:13:19	27856.494	3.943	13.504	10/01/2003 5:50	20:39:59	5400.072	1.453
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	29.252	10/01/2003 8:24	23:13:19	27623.988	2.906	13.358	10/01/2003 6:04	20:53:20	5398.031	1.384
32	BOYNERIVER 10401.00			9/01/2003 9:11	29.087	10/01/2003 8:24	23:13:19	27529.068	3.648	13.216	10/01/2003 6:11	21:00:00	5425.419	1.399
33	BOYNERIVER 10402.80			9/01/2003 9:11	29.113	10/01/2003 8:31	23:20:00	27528.754	3.649	13.221	10/01/2003 6:11	21:00:00	5425.859	1.4
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	29.087	10/01/2003 8:44	23:33:19	27509.295	3.649	13.242	10/01/2003 5:57	20:46:40	5426.294	1.398
35	BOYNERIVER 10414.00			9/01/2003 9:11	29.086	10/01/2003 8:24	23:13:19	27506.16	3.648	13.212	10/01/2003 6:17	21:06:39	5425.878	1.397
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	29.056	10/01/2003 8:31	23:20:00	27236.896	3.377	13.135	10/01/2003 6:11	21:00:00	5393.297	1.314
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	28.948	10/01/2003 8:31	23:20:00	27140.127	4.093	13.021	10/01/2003 6:24	21:13:19	5385.812	1.625
38	BOYNERIVER 10832.90			9/01/2003 9:11	28.948	10/01/2003 8:31	23:20:00	39339.984	4.233	13.021	10/01/2003 6:24	21:13:19	5517.705	1.607
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	27.227	10/01/2003 8:37	23:26:40	39326.207	6.446	12.576	10/01/2003 6:31	21:20:00	5517.014	2.269
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	24.869	10/01/2003 8:50	23:39:59	39309.203	6.766	11.874	10/01/2003 6:44	21:33:19	5516.012	2.263
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	24.869	10/01/2003 8:50	23:39:59	23962.541	4.26	11.874	10/01/2003 6:44	21:33:19	4356.267	1.79
42	BOYNERIVER 12303.00			9/01/2003 9:11	23.994	10/01/2003 9:04	23:53:20	23934.811	4.627	11.52	10/01/2003 6:50	21:39:59	4355.279	1.769
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	23.994	10/01/2003 9:04	23:53:20	23621.064	4.44	11.52	10/01/2003 6:50	21:39:59	4352.196	1.766

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	23.622	10/01/2003 9:04	23:53:20	23614.607	4.654	11.386	10/01/2003 6:50	21:39:59	4351.889	1.81
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	22.823	10/01/2003 9:17	24:06:39	23599.404	4.994	11.038	10/01/2003 7:04	21:53:20	4351.24	1.999
46	BOYNERIVER 12785.40			9/01/2003 9:11	22.823	10/01/2003 9:17	24:06:39	23178.295	4.623	11.038	10/01/2003 7:04	21:53:20	4342.529	1.991
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	22.502	10/01/2003 9:17	24:06:39	23176.523	4.841	10.93	10/01/2003 7:04	21:53:20	4342.401	2.04
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	22.345	10/01/2003 9:17	24:06:39	23166.977	3.234	10.731	10/01/2003 7:04	21:53:20	4341.749	1.415
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	20.915	10/01/2003 9:31	24:20:00	23147.834	4.642	10.143	10/01/2003 7:17	22:06:39	4340.938	2.15
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	20.285	10/01/2003 9:37	24:26:40	23132.502	3.835	9.89	10/01/2003 7:31	22:20:00	4340.208	1.515
51	BOYNERIVER 14304.56			9/01/2003 9:11	20.285	10/01/2003 9:37	24:26:40	22792.271	3.705	9.89	10/01/2003 7:31	22:20:00	4331.13	1.508
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	20.089	10/01/2003 9:37	24:26:40	22790.926	3.468	9.826	10/01/2003 7:31	22:20:00	4330.991	1.332
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	19.63	10/01/2003 9:37	24:26:40	22786.371	2.651	9.551	10/01/2003 7:31	22:20:00	4330.739	1.405
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	18.622	10/01/2003 9:44	24:33:19	22782.91	3.8	9.155	10/01/2003 7:31	22:20:00	4330.557	1.964
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	18.128	10/01/2003 9:44	24:33:19	22776.775	2.497	8.836	10/01/2003 7:37	22:26:40	4330.334	1.549
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	17.863	10/01/2003 9:44	24:33:19	22769.369	1.935	8.7	10/01/2003 7:37	22:26:40	4330.043	1.063
57	BOYNERIVER 16062.90			9/01/2003 9:11	17.863	10/01/2003 9:44	24:33:19	22002.043	1.92	8.7	10/01/2003 7:37	22:26:40	5002.504	1.23
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	17.817	10/01/2003 9:44	24:33:19	21996.75	1.819	8.664	10/01/2003 7:37	22:26:40	5002.378	1.153
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	16.888	10/01/2003 9:50	24:39:59	21969.678	3.868	8.231	10/01/2003 7:44	22:33:19	5001.72	1.871
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	16.106	10/01/2003 9:57	24:46:40	21951.184	4.004	7.75	10/01/2003 7:50	22:39:59	5001.129	1.985
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	14.764	10/01/2003 10:11	25:00:00	21940.385	6.322	7.124	10/01/2003 8:04	22:53:20	5000.825	3.13
62	BOYNERIVER 17722.19			9/01/2003 9:11	14.764	10/01/2003 10:11	25:00:00	5232.023	2.554	7.124	10/01/2003 8:04	22:53:20	3076.227	1.934
63	BOYNERIVER 17874.50			9/01/2003 9:11	14.741	10/01/2003 10:11	25:00:00	5208.407	2.993	6.972	10/01/2003 8:11	23:00:00	3076.079	2.195
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	14.729	10/01/2003 10:11	25:00:00	5157.89	2.564	6.806	10/01/2003 8:11	23:00:00	3075.761	1.953
65	BOYNERIVER 18184.66			9/01/2003 9:11	14.729	10/01/2003 10:11	25:00:00	18936.713	5.037	6.806	10/01/2003 8:11	23:00:00	3556.019	2.239
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	14.312	10/01/2003 10:11	25:00:00	18935.787	4.487	6.61	10/01/2003 8:11	23:00:00	3555.986	1.952
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	13.092	10/01/2003 10:11	25:00:00	18935.475	5.204	6.225	10/01/2003 8:17	23:06:39	3555.929	2.111
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	13.038	10/01/2003 10:17	25:06:39	18934.689	2.971	6.088	10/01/2003 8:17	23:06:39	3555.842	1.359
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	12.623	10/01/2003 10:17	25:06:39	18931.893	2.258	5.733	10/01/2003 8:17	23:06:39	3555.716	1.567
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	11.79	10/01/2003 10:17	25:06:39	18929.82	3.656	5.37	10/01/2003 8:17	23:06:39	3555.656	1.921
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	11.328	10/01/2003 10:17	25:06:39	18927.834	2.712	5.015	10/01/2003 8:17	23:06:39	3555.616	1.781
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	11.144	10/01/2003 10:17	25:06:39	18927.859	2.495	4.899	10/01/2003 8:17	23:06:39	3555.603	1.583
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	10.25	10/01/2003 10:17	25:06:39	18927.789	3.557	4.491	10/01/2003 8:24	23:13:19	3555.575	1.964
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	8.861	10/01/2003 10:17	25:06:39	18927.723	6.582	4.119	10/01/2003 8:24	23:13:19	3555.567	2.632
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	7.529	10/01/2003 10:17	25:06:39	18927.48	3.815	3.87	10/01/2003 8:24	23:13:19	3555.552	1.612
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	5.628	10/01/2003 10:17	25:06:39	18927.066	4.17	3.44	10/01/2003 8:24	23:13:19	3555.559	1.585
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	18926.846	15.809	2.42	9/01/2003 9:11	0:00:00	3555.562	2.97
78	COOMALCK 0.00	C1		9/01/2003 9:11	38.018	9/01/2003 12:44	3:33:20	184.418	1.785	38.018	9/01/2003 12:44	3:33:20	184.418	1.785
79	COOMALCK 398.20	C2		9/01/2003 9:11	36.403	10/01/2003 5:31	20:20:00	184.948	2.298	33.341	9/01/2003 12:44	3:33:20	184.948	1.911
80	COOMALCK 794.20	C3		9/01/2003 9:11	36.414	10/01/2003 5:24	20:13:19	184.787	1.588	29.642	9/01/2003 12:44	3:33:20	184.787	1.588
81	COOMALCK 1209.50	C4		9/01/2003 9:11	36.416	10/01/2003 5:24	20:13:19	183.977	2.977	26.579	9/01/2003 12:51	3:40:00	183.977	2.977
82	COOMALCK 1813.30	C5		9/01/2003 9:11	36.413	10/01/2003 5:24	20:13:19	184.037	5.302	22.002	10/01/2003 0:24	15:13:20	184.037	5.019
83	COOMALCK 2352.80	C6		9/01/2003 9:11	36.411	10/01/2003 5:24	20:13:19	181.905	3.322	18.024	10/01/2003 4:04	18:53:20	181.905	1.192
84	COOMALCK 3112.20	C7		9/01/2003 9:11	36.409	10/01/2003 5:31	20:20:00	308.826	3.11	17.912	10/01/2003 4:04	18:53:20	180.523	2.992
85	COOMALCK 3751.30	C8		9/01/2003 9:11	36.408	10/01/2003 5:24	20:13:19	479.914	1.409	17.903	10/01/2003 2:57	17:46:40	137.665	0.992
86	COOMALCK 4222.50	C9		9/01/2003 9:11	36.407	10/01/2003 5:24	20:13:19	577.498	2.661	17.904	10/01/2003 3:11	18:00:00	152.193	2.661
87	COOMALCK 4305.00			9/01/2003 9:11	36.407	10/01/2003 5:24	20:13:19	585.733	35.868	17.905	10/01/2003 3:11	18:00:00	150.695	35.868
88	YUNKACK 0.00	Y1		9/01/2003 9:11	34.489	9/01/2003 11:24	2:13:20	60.541	1.332	34.489	9/01/2003 11:24	2:13:20	60.541	1.332

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
89	YUNKACK 574.20	Y2		9/01/2003 9:11	30.563	10/01/2003 7:57	22:46:40	60.428	11.322	26.859	9/01/2003 11:51	2:40:00	60.428	1.645
90	YUNKACK 948.90	Y3		9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	60.362	1.063	22.26	9/01/2003 11:57	2:46:39	60.362	1.063
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	74.683	7.332	19.001	9/01/2003 12:04	2:53:19	60.308	7.332
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	179.684	1.165	14.912	10/01/2003 4:31	19:20:00	60.351	1.165
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	367.282	1.241	14.913	10/01/2003 4:44	19:33:19	59.578	1.241
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	30.562	10/01/2003 7:57	22:46:40	487.885	31.282	14.913	10/01/2003 4:44	19:33:19	58.481	31.282
95	TUCKERGULLY 0.00			9/01/2003 9:11	38.124	10/01/2003 5:24	20:13:19	238.052	0.856	36.642	9/01/2003 13:04	3:53:19	238.052	0.856
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	38.099	10/01/2003 5:17	20:06:39	236.166	2.138	34.565	9/01/2003 13:04	3:53:19	236.166	2.138
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	38.118	10/01/2003 5:17	20:06:39	235.976	1.836	29.598	9/01/2003 13:17	4:06:40	235.976	1.836
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	38.096	10/01/2003 5:17	20:06:39	235.939	2.297	26.377	9/01/2003 13:17	4:06:40	235.939	2.297
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	38.094	10/01/2003 5:17	20:06:39	280.083	2.047	22.046	9/01/2003 13:24	4:13:20	235.832	2.123
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	38.097	10/01/2003 5:17	20:06:39	389.005	1.691	18.575	10/01/2003 1:50	16:39:59	235.509	1.691
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	38.095	10/01/2003 5:17	20:06:39	512.89	1.903	18.571	10/01/2003 2:31	17:20:00	235.509	1.903
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	38.093	10/01/2003 5:17	20:06:39	732.526	3.738	18.571	10/01/2003 2:31	17:20:00	229.954	3.71
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	38.089	10/01/2003 5:17	20:06:39	832.375	2.492	18.57	10/01/2003 2:44	17:33:19	216.846	2.492
104	TUCKERGULLY 5765.40			9/01/2003 9:11	38.089	10/01/2003 5:17	20:06:39	1408.621	2.488	18.57	10/01/2003 2:44	17:33:19	214.385	2.488
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	38.084	10/01/2003 5:17	20:06:39	1614.449	0.583	18.571	10/01/2003 2:31	17:20:00	183.196	0.583
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	38.082	10/01/2003 5:17	20:06:39	1750.967	1.372	18.571	10/01/2003 2:31	17:20:00	168.057	1.372
107	TUCKERTRIB 0.00			9/01/2003 9:11	38.103	10/01/2003 5:11	20:00:00	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	38.101	10/01/2003 5:11	20:00:00	23.987	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.531
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	38.099	10/01/2003 5:17	20:06:39	66.837	5.815	27.265	9/01/2003 9:11	0:00:00	2.5	0.454
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	38.097	10/01/2003 5:17	20:06:39	187.409	1.27	20.311	9/01/2003 9:11	0:00:00	2.5	1.048
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	38.08	10/01/2003 5:17	20:06:39	306.756	0.316	18.582	10/01/2003 2:37	17:26:40	3.788	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	38.078	10/01/2003 5:17	20:06:39	391.71	0.652	18.581	10/01/2003 2:37	17:26:40	8.869	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	38.09	10/01/2003 5:17	20:06:39	502.476	0.387	18.574	10/01/2003 2:37	17:26:40	16.985	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	38.089	10/01/2003 5:17	20:06:39	616.136	6.064	18.57	10/01/2003 2:44	17:33:19	21.132	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	28.99	10/01/2003 8:31	23:20:00	493.732	0.943	16.576	9/01/2003 13:44	4:33:19	493.732	0.943
116	STATIONCK 684.50	S2		9/01/2003 9:11	28.99	10/01/2003 8:31	23:20:00	487.424	1.129	15.244	9/01/2003 14:17	5:06:40	487.424	1.129
117	STATIONCK 1599.70	S3		9/01/2003 9:11	28.99	10/01/2003 8:31	23:20:00	893.415	1.161	13.599	9/01/2003 14:50	5:39:59	466.912	1.161
118	STATIONCK 2431.30	S4		9/01/2003 9:11	28.989	10/01/2003 8:31	23:20:00	1377.744	0.982	13.022	10/01/2003 6:17	21:06:39	461.49	0.982
119	STATIONCK 3013.70	S5		9/01/2003 9:11	28.988	10/01/2003 8:31	23:20:00	1773.037	0.792	13.022	10/01/2003 6:17	21:06:39	454.132	0.792
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	28.987	10/01/2003 8:31	23:20:00	2257.153	1.053	13.022	10/01/2003 6:17	21:06:39	435.592	1.053
121	STATIONCK 4481.70	S7		9/01/2003 9:11	28.986	10/01/2003 8:31	23:20:00	2678.623	1.09	13.022	10/01/2003 6:17	21:06:39	374.498	1.09
122	STATIONCK 5140.80	S8		9/01/2003 9:11	28.985	10/01/2003 8:31	23:20:00	3098.781	0.506	13.022	10/01/2003 6:17	21:06:39	286.393	0.506
123	STATIONCK 5918.90	S9		9/01/2003 9:11	28.984	10/01/2003 8:31	23:20:00	3638.178	0.361	13.022	10/01/2003 6:17	21:06:39	173.877	0.361
124	STATIONCK 6575.50	S10		9/01/2003 9:11	28.982	10/01/2003 8:31	23:20:00	4000.246	0.27	13.022	10/01/2003 6:24	21:13:19	206.085	0.133
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	28.981	10/01/2003 8:31	23:20:00	4172.819	0.335	13.022	10/01/2003 6:24	21:13:19	221.157	0.11
126	STATIONCK 6954.40			9/01/2003 9:11	28.981	10/01/2003 8:31	23:20:00	19939.502	0.801	13.022	10/01/2003 6:24	21:13:19	305.561	0.111
127	STATIONCK 7691.00	S11		9/01/2003 9:11	28.948	10/01/2003 8:31	23:20:00	20061.289	0.785	13.021	10/01/2003 6:24	21:13:19	314.033	0.28
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.181	9/01/2003 12:44	3:33:20	217.662	1.087	34.181	9/01/2003 12:44	3:33:20	217.662	1.087
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.298	9/01/2003 12:51	3:40:00	217.19	1.137	29.298	9/01/2003 12:51	3:40:00	217.19	1.137
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.084	9/01/2003 12:57	3:46:39	217.103	1.55	27.084	9/01/2003 12:57	3:46:39	217.103	1.55
131	MACHINECK 1699.10	M4		9/01/2003 9:11	23.586	9/01/2003 13:11	4:00:00	216.763	0.91	23.586	9/01/2003 13:11	4:00:00	216.763	0.91
132	MACHINECK 2214.80	M5		9/01/2003 9:11	22.825	10/01/2003 9:17	24:06:39	216.649	4.32	21.151	9/01/2003 13:11	4:00:00	216.649	2.26
133	MACHINECK 2730.60	M6		9/01/2003 9:11	22.825	10/01/2003 9:17	24:06:39	216.627	1.505	17.541	9/01/2003 13:11	4:00:00	216.627	1.505

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
134	MACHINECK 3140.90	M7		9/01/2003 9:11	22.825	10/01/2003 9:17	24:06:39	216.579	2.198	15.53	9/01/2003 13:17	4:06:40	216.579	1.842
135	MACHINECK 3611.90	M8		9/01/2003 9:11	22.825	10/01/2003 9:17	24:06:39	216.52	1.037	13.25	9/01/2003 13:17	4:06:40	216.52	1.037
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	22.825	10/01/2003 9:17	24:06:39	216.101	1.837	11.453	9/01/2003 13:37	4:26:40	216.101	1.837
137	MACHINECK 5099.90	M10		9/01/2003 9:11	22.824	10/01/2003 9:17	24:06:39	364.12	2.276	11.038	10/01/2003 6:57	21:46:40	216.158	2.276
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	22.823	10/01/2003 9:17	24:06:39	509.059	0.934	11.038	10/01/2003 7:04	21:53:20	206.311	0.934
139	MACHINECK 6711.00	M12		9/01/2003 9:11	22.823	10/01/2003 9:17	24:06:39	633.655	1.228	11.038	10/01/2003 7:04	21:53:20	183.405	1.228
140	O'LSATION 0.00			9/01/2003 9:11	29.678	10/01/2003 8:17	23:06:39	25503.955	1.728	14.101	10/01/2003 5:24	20:13:19	268.709	1.588
141	O'LSATION 304.10	O2-1		9/01/2003 9:11	29.638	10/01/2003 8:17	23:06:39	25187.596	1.917	14.077	10/01/2003 5:31	20:20:00	266.087	1.917
142	O'LSATION 1252.20	O2-2		9/01/2003 9:11	29.503	10/01/2003 8:17	23:06:39	24250.066	5.288	13.939	10/01/2003 5:37	20:26:40	262.901	5.288
143	O'LSATION 1924.60	O2-3		9/01/2003 9:11	29.274	10/01/2003 8:24	23:13:19	23741.896	3.109	13.293	10/01/2003 6:04	20:53:20	261.61	2.73
144	O'LSATION 2385.50			9/01/2003 9:11	29.06	10/01/2003 8:31	23:20:00	23471.475	3.903	13.062	10/01/2003 6:17	21:06:39	260.736	2.2
145	O'LSATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	28.981	10/01/2003 8:31	23:20:00	23348.92	4.247	13.022	10/01/2003 6:24	21:13:19	260.391	2.537
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.604	9/01/2003 11:17	2:06:40	88.025	1.015	26.604	9/01/2003 11:17	2:06:40	88.025	1.015
147	WURDONGCK 616.40	W2		9/01/2003 9:11	21.383	9/01/2003 11:51	2:40:00	88.003	0.906	21.383	9/01/2003 11:51	2:40:00	88.003	0.906
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	20.287	10/01/2003 9:37	24:26:40	88.099	0.909	16.266	9/01/2003 11:57	2:46:39	88.099	0.909
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	20.286	10/01/2003 9:37	24:26:40	87.076	3.905	13.748	9/01/2003 12:30	3:19:59	87.076	2.414
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	20.287	10/01/2003 9:37	24:26:40	303.988	1.268	9.891	10/01/2003 7:24	22:13:19	86.863	0.707
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	20.286	10/01/2003 9:37	24:26:40	711.656	0.365	9.891	10/01/2003 7:31	22:20:00	81.912	0.365
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	20.285	10/01/2003 9:37	24:26:40	1122.688	0.761	9.89	10/01/2003 7:31	22:20:00	70.697	0.761
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	24.036	9/01/2003 9:11	0:00:00	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	23.995	10/01/2003 9:04	23:53:20	64.869	6.243	16.242	9/01/2003 9:11	0:00:00	17.386	3.633
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	23.995	10/01/2003 9:04	23:53:20	111.867	0.227	11.521	10/01/2003 6:44	21:33:19	16.301	0.227
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	23.995	10/01/2003 9:04	23:53:20	194.998	0.444	11.52	10/01/2003 6:57	21:46:40	4.501	0.444
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	23.995	10/01/2003 9:04	23:53:20	253.518	1.359	11.52	10/01/2003 6:50	21:39:59	6.601	1.359
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	23.994	10/01/2003 9:04	23:53:20	315.768	2.993	11.52	10/01/2003 6:50	21:39:59	10.1	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	24.87	10/01/2003 8:50	23:39:59	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	24.87	10/01/2003 8:50	23:39:59	49.951	7.52	14.526	9/01/2003 9:11	0:00:00	17.333	5.06
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	24.87	10/01/2003 8:50	23:39:59	111.963	0.641	11.874	10/01/2003 6:37	21:26:40	20.061	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	24.869	10/01/2003 8:50	23:39:59	213.537	0.519	11.874	10/01/2003 6:37	21:26:40	4.098	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	24.869	10/01/2003 8:50	23:39:59	340.058	1.329	11.874	10/01/2003 6:44	21:33:19	10.075	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	24.869	10/01/2003 8:50	23:39:59	15428.505	5.724	11.874	10/01/2003 6:44	21:33:19	1160.766	1.692
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	20.477	10/01/2003 9:04	23:53:20	15426.217	7.676	10.169	10/01/2003 6:57	21:46:40	1160.59	2.531
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	18.963	10/01/2003 9:24	24:13:19	15419.106	3.699	9.446	10/01/2003 7:11	22:00:00	1160.349	1.266
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	17.975	10/01/2003 9:44	24:33:19	15380.867	3.582	8.764	10/01/2003 7:37	22:26:40	1159.902	2.011
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	17.863	10/01/2003 9:44	24:33:19	15335.069	1.625	8.709	10/01/2003 7:37	22:26:40	1159.356	0.583
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	17.863	10/01/2003 9:44	24:33:19	2620.85	0.653	8.709	10/01/2003 7:37	22:26:40	681.7	0.493
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	17.863	10/01/2003 9:44	24:33:19	2532.84	0.707	8.7	10/01/2003 7:37	22:26:40	680.188	0.707
171	O'LAND01 0.00			9/01/2003 9:11	17.863	10/01/2003 9:44	24:33:19	16013.237	2.479	8.709	10/01/2003 7:37	22:26:40	485.765	0.453
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	17.21	10/01/2003 9:50	24:39:59	16000.237	2.682	8.61	10/01/2003 7:37	22:26:40	485.559	0.47
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	16.68	10/01/2003 9:57	24:46:40	15977.301	2.198	8.347	10/01/2003 7:44	22:33:19	485.391	0.939
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	16.471	10/01/2003 9:57	24:46:40	15961.481	1.867	7.671	10/01/2003 7:57	22:46:40	485.302	0.919
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	16.186	10/01/2003 10:04	24:53:20	15929.555	1.571	7.055	10/01/2003 8:11	23:00:00	484.948	0.505
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	15.99	10/01/2003 10:04	24:53:20	15899.334	1.409	6.894	10/01/2003 8:11	23:00:00	484.788	0.331
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	15.472	10/01/2003 10:04	24:53:20	15879.657	2.865	6.828	10/01/2003 8:11	23:00:00	484.86	0.615
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	15.473	10/01/2003 10:04	24:53:20	57.337	0.312	7.945	9/01/2003 11:30	2:19:59	57.337	0.312

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF No Failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
179	CATTLECK 743.60	CC2		9/01/2003 9:11	15.473	10/01/2003 10:04	24:53:20	100.38	0.869	6.828	10/01/2003 8:11	23:00:00	55.016	0.869
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	15.472	10/01/2003 10:04	24:53:20	191.196	0.775	6.828	10/01/2003 8:11	23:00:00	53.644	0.775
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	15.472	10/01/2003 10:04	24:53:20	305.502	0.177	6.828	10/01/2003 8:11	23:00:00	51.468	0.177
182	CATTLECK 1994.43			9/01/2003 9:11	15.472	10/01/2003 10:04	24:53:20	15813.104	1.772	6.828	10/01/2003 8:11	23:00:00	485.702	0.204
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	15.148	10/01/2003 10:11	25:00:00	15811.232	2.934	6.819	10/01/2003 8:11	23:00:00	485.787	0.378
184	CATTLECK 2335.00			9/01/2003 9:11	14.729	10/01/2003 10:11	25:00:00	15807.535	3.172	6.806	10/01/2003 8:11	23:00:00	485.89	0.379
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	14.764	10/01/2003 10:11	25:00:00	18887.373	1.806	7.124	10/01/2003 8:04	22:53:20	1925.69	1.806
186	STHTREES 851.80	ST2		9/01/2003 9:11	13.95	10/01/2003 10:24	25:13:19	18723.201	1.607	5.851	10/01/2003 8:57	23:46:40	1922.855	0.872
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	13.699	10/01/2003 10:31	25:20:00	18593.41	1.657	5.477	10/01/2003 9:31	24:20:00	1919.138	1.239
188	STHTREES 2361.30	ST4		9/01/2003 9:11	13.485	10/01/2003 10:31	25:20:00	18477.225	1.373	5.2	10/01/2003 9:50	24:39:59	1914.346	0.764
189	STHTREES 2829.50	ST5		9/01/2003 9:11	13.428	10/01/2003 10:31	25:20:00	18405.348	1.043	5.103	10/01/2003 9:57	24:46:40	1910.726	0.554
190	STHTREES 3773.50	ST6		9/01/2003 9:11	13.261	10/01/2003 10:31	25:20:00	18293.168	1.092	4.93	10/01/2003 10:04	24:53:20	1903.829	0.51
191	STHTREES 4171.60	ST7		9/01/2003 9:11	13.13	10/01/2003 10:37	25:26:40	18267.416	1.444	4.859	10/01/2003 10:11	25:00:00	1901.856	0.54
192	STHTREES 4595.40	ST8		9/01/2003 9:11	12.883	10/01/2003 10:37	25:26:40	18249.746	1.977	4.742	10/01/2003 10:11	25:00:00	1900.536	0.809
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	12.566	10/01/2003 10:37	25:26:40	18229.684	2.034	4.593	10/01/2003 10:17	25:06:39	1899.454	0.745
194	STHTREES 5122.39			9/01/2003 9:11	12.566	10/01/2003 10:37	25:26:40	18184.016	2.008	4.593	10/01/2003 10:17	25:06:39	1897.51	0.743
195	STHTREES 5493.40	ST9		9/01/2003 9:11	12.253	10/01/2003 10:44	25:33:19	18176.34	2.309	4.501	10/01/2003 10:24	25:13:19	1897.137	0.789
196	STHTREES 6390.90	ST10		9/01/2003 9:11	10.572	10/01/2003 10:50	25:39:59	18162.029	5.005	3.852	10/01/2003 10:37	25:26:40	1896.524	2.699
197	STHTREES 7658.80	ST11		9/01/2003 9:11	8.838	10/01/2003 11:11	26:00:00	18095.771	1.266	3.251	10/01/2003 11:24	26:13:19	1893.774	0.36
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	8.628	10/01/2003 11:17	26:06:39	18047.875	1.372	3.197	10/01/2003 11:24	26:13:19	1891.869	0.412
199	STHTREES 8251.05			9/01/2003 9:11	8.628	10/01/2003 11:17	26:06:39	17950.824	1.349	3.197	10/01/2003 11:24	26:13:19	1888.889	0.411
200	STHTREES 9287.10	ST12		9/01/2003 9:11	8.102	10/01/2003 11:24	26:13:19	17912.279	1.623	3.077	10/01/2003 11:31	26:20:00	1887.7	0.495
201	STHTREES 11258.10	ST13		9/01/2003 9:11	6.956	10/01/2003 11:31	26:20:00	17844.117	1.415	2.831	10/01/2003 11:44	26:33:19	1886.311	0.429
202	STHTREES 12688.10	ST14		9/01/2003 9:11	5.996	10/01/2003 11:44	26:33:19	17793.148	1.485	2.661	10/01/2003 11:50	26:39:59	1885.804	0.407
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.08	10/01/2003 11:57	26:46:40	17739.783	0.953	2.555	10/01/2003 11:57	26:46:40	1885.496	0.225
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	17722.785	3.292	2.42	9/01/2003 9:11	0:00:00	1885.491	0.35
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	12.567	10/01/2003 10:37	25:26:40	102.487	1.118	10.472	9/01/2003 12:11	3:00:00	102.487	1.118
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	12.567	10/01/2003 10:37	25:26:40	102.161	3.155	4.944	9/01/2003 12:11	3:00:00	102.161	3.155
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	12.567	10/01/2003 10:37	25:26:40	101.944	0.355	4.593	10/01/2003 10:17	25:06:39	101.944	0.355
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	12.566	10/01/2003 10:37	25:26:40	114.212	0.202	4.593	10/01/2003 10:24	25:13:19	100.67	0.202
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	12.566	10/01/2003 10:37	25:26:40	175.009	0.106	4.593	10/01/2003 10:17	25:06:39	99.076	0.106
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.072	9/01/2003 12:17	3:06:40	148.506	0.961	13.072	9/01/2003 12:17	3:06:40	148.506	0.961
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	8.629	10/01/2003 11:17	26:06:39	147.323	5.924	5.735	9/01/2003 12:24	3:13:20	147.323	5.847
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	8.629	10/01/2003 11:17	26:06:39	146.273	0.225	3.197	10/01/2003 11:24	26:13:19	146.273	0.225
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	8.628	10/01/2003 11:17	26:06:39	160.538	0.085	3.197	10/01/2003 11:24	26:13:19	143.482	0.085
214	ELEVENMILECK 3887.00			9/01/2003 9:11	8.628	10/01/2003 11:17	26:06:39	233.803	0.084	3.197	10/01/2003 11:24	26:13:19	141.138	0.084
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	31.073	10/01/2003 7:37	22:26:40	75.971	1.425	17.659	9/01/2003 12:11	3:00:00	75.971	1.425
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	31.073	10/01/2003 7:37	22:26:40	279.312	11.496	15.813	10/01/2003 4:17	19:06:39	75.444	1.906
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	31.073	10/01/2003 7:37	22:26:40	1021.61	0.148	15.81	10/01/2003 4:11	19:00:00	106.957	0.148
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	31.073	10/01/2003 7:37	22:26:40	1102.777	0.141	15.81	10/01/2003 4:24	19:13:19	112.451	0.141
219	SPILLWAY 0.00			9/01/2003 9:11	49.806	10/01/2003 0:51	15:40:00	13820.098	0.654	49.806	10/01/2003 0:51	15:40:00	5860.57	0.237
220	SPILLWAY 300.00			9/01/2003 9:11	43.548	10/01/2003 4:44	19:33:19	5856.595	0.34	20.386	10/01/2003 2:04	16:53:20	5856.595	0.34

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	52.469	10/01/2003 3:11	18:00:00	29489.152	1.352	52.469	10/01/2003 3:11	18:00:00	29489.152	1.352
2	BOYNERIVER 100.00			9/01/2003 9:11	52.466	10/01/2003 2:57	17:46:40	101573.641	4.965	52.466	10/01/2003 2:57	17:46:40	11906.493	0.532
3	BOYNERIVER 100.00			9/01/2003 9:11	52.466	10/01/2003 2:57	17:46:40	84986.875	4.154	52.466	10/01/2003 2:57	17:46:40	53.849	0.003
4	BOYNERIVER 150.00			9/01/2003 9:11	52.466	10/01/2003 2:57	17:46:40	83791.844	5.85	52.466	10/01/2003 2:57	17:46:40	45.019	0.003
5	BOYNERIVER 350.00			9/01/2003 9:11	45.786	10/01/2003 7:17	22:06:39	79034.406	5.662	25.729	10/01/2003 3:50	18:39:59	44.572	1.264
6	BOYNERIVER 420.00			9/01/2003 9:11	45.804	10/01/2003 7:04	21:53:20	77904.25	5.348	25.728	10/01/2003 3:50	18:39:59	59.211	1.298
7	BOYNERIVER 420.00			9/01/2003 9:11	45.804	10/01/2003 7:04	21:53:20	79103.484	5.474	25.728	10/01/2003 3:50	18:39:59	11893.068	2.124
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	45.621	10/01/2003 7:17	22:06:39	76996.781	4.336	25.237	10/01/2003 4:44	19:33:19	11888.723	2.48
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	43.263	10/01/2003 7:24	22:13:19	76597.117	6.952	24.51	10/01/2003 4:44	19:33:19	11880.78	2.545
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	40.548	10/01/2003 7:37	22:26:40	76372.305	8.089	23.546	10/01/2003 4:57	19:46:40	11872.31	2.977
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	40.188	10/01/2003 7:37	22:26:40	76273.867	7.281	23.369	10/01/2003 4:57	19:46:40	11869.508	2.455
12	BOYNERIVER 2182.33			9/01/2003 9:11	40.188	10/01/2003 7:37	22:26:40	70438.977	6.348	23.369	10/01/2003 4:57	19:46:40	11797.039	2.423
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	39.006	10/01/2003 7:44	22:33:19	70378.828	6.526	22.911	10/01/2003 4:44	19:33:19	11794.784	2.691
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	38.559	10/01/2003 7:50	22:39:59	70152.578	3.44	22.58	10/01/2003 4:37	19:26:40	11856.734	1.464
15	BOYNERIVER 3120.26			9/01/2003 9:11	38.559	10/01/2003 7:50	22:39:59	69311.539	3.34	22.58	10/01/2003 4:37	19:26:40	12779.093	1.543
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	38.37	10/01/2003 7:50	22:39:59	69265.07	3.209	22.445	10/01/2003 4:37	19:26:40	12558.862	1.547
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	36.664	10/01/2003 7:57	22:46:40	69098.813	5.028	21.81	10/01/2003 5:04	19:53:20	11990.71	2.057
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	33.794	10/01/2003 9:44	24:33:19	68898.836	7.404	20.42	10/01/2003 5:17	20:06:39	12036.181	3.205
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	33.49	10/01/2003 9:57	24:46:40	68575.25	4.198	19.965	10/01/2003 5:37	20:26:40	12134.318	1.549
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	33.49	10/01/2003 9:57	24:46:40	66193.703	3.951	19.965	10/01/2003 5:37	20:26:40	11832.087	1.507
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	33.369	10/01/2003 10:04	24:53:20	65890.906	2.898	19.63	10/01/2003 6:11	21:00:00	11767.718	2.098
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	33.053	10/01/2003 10:11	25:00:00	65199.398	2.71	19.075	10/01/2003 6:37	21:26:40	11704.569	1.644
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	33.053	10/01/2003 10:11	25:00:00	63993.031	2.625	19.075	10/01/2003 6:37	21:26:40	11590.498	1.631
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	32.687	10/01/2003 10:17	25:06:39	63351.727	3.416	18.533	10/01/2003 6:57	21:46:40	11545.051	1.994
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	32.249	10/01/2003 10:24	25:13:19	62509.809	3.709	18.039	10/01/2003 7:24	22:13:19	11502.873	1.881
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	32.249	10/01/2003 10:24	25:13:19	31613.771	1.969	18.039	10/01/2003 7:24	22:13:19	8597.203	1.857
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	32.19	10/01/2003 10:24	25:13:19	31081.332	2.105	17.889	10/01/2003 7:31	22:20:00	8574.471	1.48
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	32.181	10/01/2003 10:24	25:13:19	30693.301	1.486	17.853	10/01/2003 7:31	22:20:00	8555.692	0.99
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	32.014	10/01/2003 10:31	25:20:00	30356.078	3.046	17.709	10/01/2003 7:37	22:26:40	8536.18	1.621
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	31.803	10/01/2003 10:31	25:20:00	30134.68	3.728	17.522	10/01/2003 7:44	22:33:19	8522.879	1.808
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	31.832	10/01/2003 10:31	25:20:00	29873.064	2.592	17.421	10/01/2003 7:50	22:39:59	8501.17	1.599
32	BOYNERIVER 10401.00			9/01/2003 9:11	31.652	10/01/2003 10:31	25:20:00	29694.824	3.431	17.291	10/01/2003 7:50	22:39:59	8508.911	1.69
33	BOYNERIVER 10402.80			9/01/2003 9:11	31.654	10/01/2003 10:44	25:33:19	29693.551	3.431	17.295	10/01/2003 7:50	22:39:59	8509.233	1.691
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	31.631	10/01/2003 10:17	25:06:39	29677.492	3.428	17.308	10/01/2003 7:31	22:20:00	8511.121	1.689
35	BOYNERIVER 10414.00			9/01/2003 9:11	31.649	10/01/2003 10:37	25:26:40	29675.811	3.426	17.288	10/01/2003 7:57	22:46:40	8510.945	1.688
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	31.625	10/01/2003 10:37	25:26:40	29526.734	3.13	17.231	10/01/2003 7:57	22:46:40	8488.729	1.572
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	31.509	10/01/2003 10:37	25:26:40	29420.816	3.721	17.132	10/01/2003 8:04	22:53:20	8476.163	1.93
38	BOYNERIVER 10832.90			9/01/2003 9:11	31.509	10/01/2003 10:37	25:26:40	47932.195	4.674	17.132	10/01/2003 8:04	22:53:20	10835.04	2.188
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	29.528	10/01/2003 10:44	25:33:19	47922.527	7.137	16.425	10/01/2003 8:04	22:53:20	10833.021	3.253
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	26.875	10/01/2003 10:57	25:46:40	47907.156	7.508	15.331	10/01/2003 8:24	23:13:19	10830.77	3.262
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	26.875	10/01/2003 10:57	25:46:40	28483.453	4.562	15.331	10/01/2003 8:24	23:13:19	7844.08	2.371
42	BOYNERIVER 12303.00			9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	28462.449	4.983	14.861	10/01/2003 8:31	23:20:00	7841.643	2.41
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	28185.023	4.83	14.861	10/01/2003 8:31	23:20:00	7821.821	2.398

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	25.472	10/01/2003 11:11	26:00:00	28179.701	5.068	14.68	10/01/2003 8:31	23:20:00	7821.261	2.477
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	24.611	10/01/2003 11:17	26:06:39	28166.135	5.312	14.212	10/01/2003 8:44	23:33:19	7820.02	2.714
46	BOYNERIVER 12785.40			9/01/2003 9:11	24.611	10/01/2003 11:17	26:06:39	27771.41	5.05	14.212	10/01/2003 8:44	23:33:19	7786.161	2.688
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	24.254	10/01/2003 11:17	26:06:39	27769.752	5.285	14.062	10/01/2003 8:44	23:33:19	7785.858	2.761
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	24.122	10/01/2003 11:24	26:13:19	27760.869	3.549	13.864	10/01/2003 8:50	23:39:59	7784.194	1.862
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	22.518	10/01/2003 11:31	26:20:00	27743.432	5.03	13.079	10/01/2003 9:04	23:53:20	7781.205	2.8
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	21.817	10/01/2003 11:37	26:26:40	27729.453	4.235	12.755	10/01/2003 9:11	24:00:00	7779.138	2.07
51	BOYNERIVER 14304.56			9/01/2003 9:11	21.817	10/01/2003 11:37	26:26:40	27401.084	4.129	12.755	10/01/2003 9:11	24:00:00	7745.774	2.053
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	21.595	10/01/2003 11:37	26:26:40	27400.213	3.881	12.668	10/01/2003 9:11	24:00:00	7745.647	1.857
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	21.143	10/01/2003 11:44	26:33:19	27395.943	2.872	12.332	10/01/2003 9:11	24:00:00	7745.068	1.743
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	20.041	10/01/2003 11:44	26:33:19	27391.684	4.108	11.767	10/01/2003 9:11	24:00:00	7744.591	2.554
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	19.595	10/01/2003 11:44	26:33:19	27384.693	2.608	11.365	10/01/2003 9:17	24:06:39	7744.337	1.959
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	19.324	10/01/2003 11:44	26:33:19	27380.363	2.077	11.215	10/01/2003 9:17	24:06:39	7743.906	1.326
57	BOYNERIVER 16062.90			9/01/2003 9:11	19.324	10/01/2003 11:44	26:33:19	25772.242	1.997	11.215	10/01/2003 9:17	24:06:39	8240.949	1.416
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	19.279	10/01/2003 11:44	26:33:19	25766.568	1.906	11.182	10/01/2003 9:17	24:06:39	8240.481	1.317
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	18.272	10/01/2003 11:50	26:39:59	25740.855	4.165	10.662	10/01/2003 9:24	24:13:19	8238.153	2.331
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	17.446	10/01/2003 11:57	26:46:40	25724.309	4.298	10.133	10/01/2003 9:31	24:20:00	8236.323	2.431
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	16.016	10/01/2003 12:11	27:00:00	25713.531	6.638	9.291	10/01/2003 9:44	24:33:19	8235.28	4.013
62	BOYNERIVER 17722.19			9/01/2003 9:11	16.016	10/01/2003 12:11	27:00:00	4799.578	2.056	9.291	10/01/2003 9:44	24:33:19	3851.846	2.056
63	BOYNERIVER 17874.50			9/01/2003 9:11	16.004	10/01/2003 12:11	27:00:00	4777.811	2.358	9.157	10/01/2003 9:44	24:33:19	3849.958	2.352
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	15.999	10/01/2003 12:11	27:00:00	4731.14	2.058	9.055	10/01/2003 9:50	24:39:59	3845.852	2.058
65	BOYNERIVER 18184.66			9/01/2003 9:11	15.999	10/01/2003 12:11	27:00:00	23142.443	5.58	9.055	10/01/2003 9:50	24:39:59	6243.7	2.982
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	15.533	10/01/2003 12:11	27:00:00	23141.781	5.016	8.81	10/01/2003 9:50	24:39:59	6243.522	2.541
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	14.119	10/01/2003 12:11	27:00:00	23140.676	5.856	8.248	10/01/2003 9:50	24:39:59	6243.377	2.81
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	14.103	10/01/2003 12:11	27:00:00	23138.688	3.284	8.105	10/01/2003 9:50	24:39:59	6243.153	1.736
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	13.698	10/01/2003 12:11	27:00:00	23135.475	2.398	7.707	10/01/2003 9:57	24:46:40	6242.594	1.744
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	12.766	10/01/2003 12:17	27:06:39	23134.16	4.011	7.222	10/01/2003 9:57	24:46:40	6242.428	2.346
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	12.351	10/01/2003 12:17	27:06:39	23132.115	2.791	6.776	10/01/2003 9:57	24:46:40	6242.228	2.084
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	12.133	10/01/2003 12:17	27:06:39	23130.98	2.69	6.638	10/01/2003 9:57	24:46:40	6242.108	1.824
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	11.215	10/01/2003 12:17	27:06:39	23129.76	3.697	6.02	10/01/2003 9:57	24:46:40	6242.113	2.605
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	9.787	10/01/2003 12:17	27:06:39	23130.08	7.005	5.335	10/01/2003 9:57	24:46:40	6242.113	3.762
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.176	10/01/2003 12:17	27:06:39	23130.41	4.18	4.825	10/01/2003 9:57	24:46:40	6242.102	2.333
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.049	10/01/2003 12:17	27:06:39	23130.594	4.606	4.039	10/01/2003 9:57	24:46:40	6242.083	2.179
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	23130.641	19.321	2.42	9/01/2003 9:11	0:00:00	6242.075	5.214
78	COOMALCK 0.00	C1		9/01/2003 9:11	38.578	10/01/2003 7:44	22:33:19	189.639	1.797	38.051	9/01/2003 12:44	3:33:20	189.639	1.797
79	COOMALCK 398.20	C2		9/01/2003 9:11	38.571	10/01/2003 7:44	22:33:19	191.091	3.317	33.375	9/01/2003 12:44	3:33:20	191.091	1.938
80	COOMALCK 794.20	C3		9/01/2003 9:11	38.565	10/01/2003 7:44	22:33:19	199.299	7.415	33.294	10/01/2003 5:04	19:53:20	360.99	1.803
81	COOMALCK 1209.50	C4		9/01/2003 9:11	38.563	10/01/2003 7:44	22:33:19	260.167	3.091	28.681	10/01/2003 5:04	19:53:20	467.505	6.158
82	COOMALCK 1813.30	C5		9/01/2003 9:11	38.554	10/01/2003 7:50	22:39:59	442.356	1.986	23.294	10/01/2003 4:37	19:26:40	511.559	2.601
83	COOMALCK 2352.80	C6		9/01/2003 9:11	38.557	10/01/2003 7:50	22:39:59	591.284	1.186	22.583	10/01/2003 4:37	19:26:40	995.224	1.186
84	COOMALCK 3112.20	C7		9/01/2003 9:11	38.561	10/01/2003 7:50	22:39:59	886.403	2.198	22.652	10/01/2003 4:37	19:26:40	1831.646	2.198
85	COOMALCK 3751.30	C8		9/01/2003 9:11	38.562	10/01/2003 7:50	22:39:59	774.831	0.993	22.715	10/01/2003 4:37	19:26:40	1942.687	0.993
86	COOMALCK 4222.50	C9		9/01/2003 9:11	38.56	10/01/2003 7:50	22:39:59	629.342	2.473	22.61	10/01/2003 4:37	19:26:40	1752.382	2.473
87	COOMALCK 4305.00			9/01/2003 9:11	38.559	10/01/2003 7:50	22:39:59	637.801	21.22	22.58	10/01/2003 4:37	19:26:40	1718.976	21.22
88	YUNKACK 0.00	Y1		9/01/2003 9:11	34.469	9/01/2003 12:17	3:06:40	59.783	1.325	34.469	9/01/2003 12:17	3:06:40	59.783	1.325



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
89	YUNKACK 574.20	Y2		9/01/2003 9:11	33.054	10/01/2003 10:11	25:00:00	59.168	11.323	26.836	9/01/2003 12:24	3:13:20	59.168	1.633
90	YUNKACK 948.90	Y3		9/01/2003 9:11	33.054	10/01/2003 10:11	25:00:00	59.077	2.082	22.245	9/01/2003 12:30	3:19:59	59.077	1.934
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	33.054	10/01/2003 10:11	25:00:00	102.202	9.473	19.079	10/01/2003 6:44	21:33:19	59.005	7.019
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	33.053	10/01/2003 10:11	25:00:00	220.582	1.153	19.078	10/01/2003 6:44	21:33:19	59.289	1.153
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	33.053	10/01/2003 10:11	25:00:00	423.518	1.23	19.075	10/01/2003 6:37	21:26:40	57.983	1.23
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	33.053	10/01/2003 10:11	25:00:00	551.99	34.545	19.075	10/01/2003 6:37	21:26:40	60.336	34.545
95	TUCKERGULLY 0.00			9/01/2003 9:11	40.322	10/01/2003 7:37	22:26:40	242.727	0.83	36.659	9/01/2003 12:51	3:40:00	242.727	0.83
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	40.246	10/01/2003 7:37	22:26:40	238.064	2.13	34.578	9/01/2003 12:57	3:46:39	238.064	2.13
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	40.234	10/01/2003 7:37	22:26:40	237.438	1.841	29.607	9/01/2003 13:04	3:53:19	237.438	1.841
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	40.237	10/01/2003 7:37	22:26:40	264.693	2.3	26.385	9/01/2003 13:04	3:53:19	237.157	2.3
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	40.22	10/01/2003 7:37	22:26:40	365.511	2.048	23.561	10/01/2003 4:50	19:39:59	237.109	2.048
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	40.203	10/01/2003 7:37	22:26:40	482.045	1.665	23.397	10/01/2003 4:50	19:39:59	236.327	1.665
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	40.204	10/01/2003 7:37	22:26:40	602.472	1.874	23.393	10/01/2003 4:44	19:33:19	235.924	1.874
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	40.197	10/01/2003 7:37	22:26:40	816.803	3.641	23.415	10/01/2003 4:44	19:33:19	233.978	2.567
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	40.193	10/01/2003 7:37	22:26:40	903.728	2.547	23.401	10/01/2003 4:44	19:33:19	225.936	2.547
104	TUCKERGULLY 5765.40			9/01/2003 9:11	40.193	10/01/2003 7:37	22:26:40	1516.168	2.547	23.401	10/01/2003 4:44	19:33:19	311.115	2.547
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	40.189	10/01/2003 7:37	22:26:40	1708.972	0.698	23.371	10/01/2003 4:44	19:33:19	237.979	0.698
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	40.188	10/01/2003 7:37	22:26:40	1839.118	1.736	23.369	10/01/2003 4:57	19:46:40	219.916	1.736
107	TUCKERTRIB 0.00			9/01/2003 9:11	40.2	10/01/2003 7:44	22:33:19	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	40.199	10/01/2003 7:44	22:33:19	38.862	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.537
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	40.198	10/01/2003 7:37	22:26:40	102.345	5.896	27.265	9/01/2003 9:11	0:00:00	14.219	6.852
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	40.209	10/01/2003 7:44	22:33:19	228.147	1.27	23.423	10/01/2003 4:50	19:39:59	24.103	1.269
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	40.21	10/01/2003 7:44	22:33:19	345.022	0.316	23.432	10/01/2003 4:50	19:39:59	78.102	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	40.199	10/01/2003 7:37	22:26:40	434.065	0.652	23.427	10/01/2003 4:50	19:39:59	134.752	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	40.191	10/01/2003 7:37	22:26:40	582.527	0.387	23.404	10/01/2003 4:44	19:33:19	156.677	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	40.193	10/01/2003 7:37	22:26:40	716.464	6.064	23.401	10/01/2003 4:44	19:33:19	152.033	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	31.55	10/01/2003 10:37	25:26:40	475.025	0.861	17.149	10/01/2003 7:57	22:46:40	475.025	0.861
116	STATIONCK 684.50	S2		9/01/2003 9:11	31.55	10/01/2003 10:37	25:26:40	465.818	1.117	17.15	10/01/2003 8:04	22:53:20	465.818	1.117
117	STATIONCK 1599.70	S3		9/01/2003 9:11	31.55	10/01/2003 10:37	25:26:40	1087.498	1.047	17.15	10/01/2003 7:57	22:46:40	441.892	1.047
118	STATIONCK 2431.30	S4		9/01/2003 9:11	31.549	10/01/2003 10:37	25:26:40	1681.314	0.973	17.149	10/01/2003 7:57	22:46:40	437.123	0.973
119	STATIONCK 3013.70	S5		9/01/2003 9:11	31.548	10/01/2003 10:37	25:26:40	2156.932	0.776	17.149	10/01/2003 8:04	22:53:20	435.564	0.776
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	31.547	10/01/2003 10:37	25:26:40	2708.91	0.951	17.149	10/01/2003 7:57	22:46:40	431.309	0.951
121	STATIONCK 4481.70	S7		9/01/2003 9:11	31.546	10/01/2003 10:37	25:26:40	3167.511	1.086	17.149	10/01/2003 7:57	22:46:40	385.238	1.086
122	STATIONCK 5140.80	S8		9/01/2003 9:11	31.545	10/01/2003 10:37	25:26:40	3615.291	0.529	17.149	10/01/2003 7:57	22:46:40	314.169	0.529
123	STATIONCK 5918.90	S9		9/01/2003 9:11	31.544	10/01/2003 10:37	25:26:40	4194.136	0.397	17.148	10/01/2003 7:57	22:46:40	394.675	0.397
124	STATIONCK 6575.50	S10		9/01/2003 9:11	31.543	10/01/2003 10:37	25:26:40	4593.43	0.266	17.148	10/01/2003 8:04	22:53:20	443.067	0.176
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	31.542	10/01/2003 10:37	25:26:40	4789.959	0.331	17.148	10/01/2003 8:04	22:53:20	463.798	0.118
126	STATIONCK 6954.40			9/01/2003 9:11	31.542	10/01/2003 10:37	25:26:40	25178.621	0.85	17.148	10/01/2003 8:04	22:53:20	2913.149	0.345
127	STATIONCK 7691.00	S11		9/01/2003 9:11	31.509	10/01/2003 10:37	25:26:40	25318.59	0.829	17.132	10/01/2003 8:04	22:53:20	2939.054	0.375
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.203	9/01/2003 12:44	3:33:20	222.058	1.093	34.203	9/01/2003 12:44	3:33:20	222.058	1.093
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.313	9/01/2003 12:51	3:40:00	220.833	1.146	29.313	9/01/2003 12:51	3:40:00	220.833	1.146
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.093	9/01/2003 12:51	3:40:00	220.712	2.825	27.093	9/01/2003 12:51	3:40:00	220.712	1.553
131	MACHINECK 1699.10	M4		9/01/2003 9:11	24.614	10/01/2003 11:17	26:06:39	219.684	0.917	23.598	9/01/2003 12:57	3:46:39	219.684	0.917
132	MACHINECK 2214.80	M5		9/01/2003 9:11	24.614	10/01/2003 11:17	26:06:39	219.216	2.262	21.158	9/01/2003 13:04	3:53:19	219.216	2.262
133	MACHINECK 2730.60	M6		9/01/2003 9:11	24.613	10/01/2003 11:17	26:06:39	219.197	1.447	17.549	9/01/2003 13:04	3:53:19	219.197	1.447

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
134	MACHINECK 3140.90	M7		9/01/2003 9:11	24.613	10/01/2003 11:17	26:06:39	218.922	1.889	15.538	9/01/2003 13:11	4:00:00	218.922	1.889
135	MACHINECK 3611.90	M8		9/01/2003 9:11	24.613	10/01/2003 11:17	26:06:39	218.779	1.041	14.212	10/01/2003 8:44	23:33:19	218.779	1.041
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	24.612	10/01/2003 11:17	26:06:39	237.501	19.444	14.212	10/01/2003 8:44	23:33:19	217.755	1.788
137	MACHINECK 5099.90	M10		9/01/2003 9:11	24.612	10/01/2003 11:17	26:06:39	395.732	2.256	14.212	10/01/2003 8:44	23:33:19	217.273	2.256
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	24.611	10/01/2003 11:17	26:06:39	539.925	0.896	14.212	10/01/2003 8:44	23:33:19	209.923	0.896
139	MACHINECK 6711.00	M12		9/01/2003 9:11	24.611	10/01/2003 11:17	26:06:39	663.486	1.218	14.212	10/01/2003 8:44	23:33:19	185.279	1.218
140	O'LSTATION 0.00			9/01/2003 9:11	32.249	10/01/2003 10:24	25:13:19	31292.922	1.744	18.039	10/01/2003 7:24	22:13:19	2944.42	1.553
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	32.211	10/01/2003 10:24	25:13:19	30927.074	1.872	17.977	10/01/2003 7:24	22:13:19	2932.185	1.872
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	32.08	10/01/2003 10:31	25:20:00	29911.574	5.078	17.762	10/01/2003 7:37	22:26:40	2900.951	5.168
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	31.84	10/01/2003 10:31	25:20:00	29384.178	3.136	17.491	10/01/2003 7:44	22:33:19	2886.218	2.81
144	O'LSTATION 2385.50			9/01/2003 9:11	31.618	10/01/2003 10:37	25:26:40	29124.854	3.782	17.255	10/01/2003 7:57	22:46:40	2878.502	2.174
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	31.542	10/01/2003 10:37	25:26:40	29011.381	3.891	17.148	10/01/2003 8:04	22:53:20	2875.319	2.54
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.598	9/01/2003 12:37	3:26:39	88.839	0.962	26.598	9/01/2003 12:37	3:26:39	88.839	0.962
147	WURDONGCK 616.40	W2		9/01/2003 9:11	21.819	10/01/2003 11:37	26:26:40	88.274	0.904	21.39	9/01/2003 12:44	3:33:20	88.274	0.904
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	21.819	10/01/2003 11:37	26:26:40	87.483	1.481	16.239	9/01/2003 12:51	3:40:00	87.483	1.263
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	21.818	10/01/2003 11:37	26:26:40	86.787	3.899	13.739	9/01/2003 13:04	3:53:19	86.787	3.899
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	21.818	10/01/2003 11:37	26:26:40	256.098	3.336	12.755	10/01/2003 9:11	24:00:00	86.255	0.71
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	21.818	10/01/2003 11:37	26:26:40	666.719	0.366	12.755	10/01/2003 9:11	24:00:00	81.002	0.366
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	21.817	10/01/2003 11:37	26:26:40	1162.953	0.757	12.755	10/01/2003 9:11	24:00:00	136.17	0.757
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	25.896	10/01/2003 11:04	25:53:20	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	65.233	6.245	16.242	9/01/2003 9:11	0:00:00	29.9	6.247
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	131.405	0.228	14.862	10/01/2003 8:24	23:13:19	31.878	0.227
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	226.722	0.44	14.861	10/01/2003 8:37	23:26:40	15.594	0.44
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	289.02	1.359	14.861	10/01/2003 8:31	23:20:00	27.1	1.359
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	25.895	10/01/2003 11:04	25:53:20	355.695	2.993	14.861	10/01/2003 8:31	23:20:00	41.283	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	26.876	10/01/2003 10:57	25:46:40	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	26.876	10/01/2003 10:57	25:46:40	59.843	10.177	15.337	10/01/2003 8:24	23:13:19	35.912	10.485
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	26.876	10/01/2003 10:57	25:46:40	130.299	0.641	15.332	10/01/2003 8:17	23:06:39	45.247	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	26.875	10/01/2003 10:57	25:46:40	242.563	0.519	15.332	10/01/2003 8:24	23:13:19	20.045	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	26.875	10/01/2003 10:57	25:46:40	384.846	1.329	15.331	10/01/2003 8:24	23:13:19	36.51	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	26.875	10/01/2003 10:57	25:46:40	19457.102	6.472	15.331	10/01/2003 8:24	23:13:19	2992.402	2.461
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	22.034	10/01/2003 11:04	25:53:20	19455.119	8.639	13.245	10/01/2003 8:31	23:20:00	2991.716	3.357
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	20.341	10/01/2003 11:31	26:20:00	19448.242	4.117	12.362	10/01/2003 8:50	23:39:59	2990.941	1.765
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	19.42	10/01/2003 11:44	26:33:19	19404.537	3.271	11.36	10/01/2003 9:11	24:00:00	2988.229	2.703
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	19.324	10/01/2003 11:44	26:33:19	19360.141	1.709	11.216	10/01/2003 9:17	24:06:39	2985.686	0.836
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	19.324	10/01/2003 11:44	26:33:19	2602.244	0.488	11.216	10/01/2003 9:17	24:06:39	828.146	0.488
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	19.324	10/01/2003 11:44	26:33:19	2517.517	0.699	11.215	10/01/2003 9:17	24:06:39	819.717	0.699
171	O'LAND01 0.00			9/01/2003 9:11	19.324	10/01/2003 11:44	26:33:19	20865.412	2.765	11.216	10/01/2003 9:17	24:06:39	2483.29	1.064
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	18.611	10/01/2003 11:50	26:39:59	20852.154	2.982	10.904	10/01/2003 9:17	24:06:39	2482.606	1.145
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	18.072	10/01/2003 11:57	26:46:40	20831.586	2.432	10.379	10/01/2003 9:31	24:20:00	2481.011	1.265
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	17.864	10/01/2003 11:57	26:46:40	20815.928	2.083	10.007	10/01/2003 9:37	24:26:40	2479.569	1.021
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	17.567	10/01/2003 11:57	26:46:40	20785.121	1.772	9.656	10/01/2003 9:44	24:33:19	2476.529	0.755
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	17.352	10/01/2003 12:04	26:53:20	20755.609	1.603	9.499	10/01/2003 9:44	24:33:19	2473.932	0.627
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	16.778	10/01/2003 12:04	26:53:20	20734.824	3.044	9.226	10/01/2003 9:50	24:39:59	2473.024	1.716
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	16.779	10/01/2003 12:04	26:53:20	56.063	0.313	9.226	10/01/2003 9:50	24:39:59	56.063	0.313

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF Failure					12hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
179	CATTLECK 743.60	CC2		9/01/2003 9:11	16.779	10/01/2003 12:04	26:53:20	126.026	0.864	9.226	10/01/2003 9:50	24:39:59	54.674	0.864
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	16.779	10/01/2003 12:04	26:53:20	233.54	0.771	9.226	10/01/2003 9:50	24:39:59	53.682	0.771
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	16.778	10/01/2003 12:04	26:53:20	353.115	0.173	9.226	10/01/2003 9:50	24:39:59	51.285	0.173
182	CATTLECK 1994.43			9/01/2003 9:11	16.778	10/01/2003 12:04	26:53:20	20657.326	2.025	9.226	10/01/2003 9:50	24:39:59	2472.413	0.617
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	16.437	10/01/2003 12:04	26:53:20	20655.543	3.081	9.147	10/01/2003 9:50	24:39:59	2472.498	1.27
184	CATTLECK 2335.00			9/01/2003 9:11	15.999	10/01/2003 12:11	27:00:00	20652.104	3.307	9.055	10/01/2003 9:50	24:39:59	2472.599	1.289
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	16.016	10/01/2003 12:11	27:00:00	23279.328	1.826	9.291	10/01/2003 9:44	24:33:19	4450.307	1.826
186	STHTREES 851.80	ST2		9/01/2003 9:11	15.232	10/01/2003 12:17	27:06:39	23137.723	1.613	8.013	10/01/2003 10:31	25:20:00	4436.684	1.048
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	14.982	10/01/2003 12:24	27:13:19	23026.068	1.644	7.693	10/01/2003 10:44	25:33:19	4420.998	1.283
188	STHTREES 2361.30	ST4		9/01/2003 9:11	14.766	10/01/2003 12:24	27:13:19	22920.02	1.425	7.436	10/01/2003 10:50	25:39:59	4403.083	0.8
189	STHTREES 2829.50	ST5		9/01/2003 9:11	14.714	10/01/2003 12:24	27:13:19	22854.551	1.049	7.35	10/01/2003 10:57	25:46:40	4391.139	0.641
190	STHTREES 3773.50	ST6		9/01/2003 9:11	14.536	10/01/2003 12:24	27:13:19	22751.688	1.193	7.203	10/01/2003 10:57	25:46:40	4371.167	0.62
191	STHTREES 4171.60	ST7		9/01/2003 9:11	14.386	10/01/2003 12:31	27:20:00	22728.963	1.609	7.131	10/01/2003 11:04	25:53:20	4365.763	0.732
192	STHTREES 4595.40	ST8		9/01/2003 9:11	14.108	10/01/2003 12:31	27:20:00	22711.443	2.183	6.995	10/01/2003 11:04	25:53:20	4362.263	1.073
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	22695.074	2.182	6.802	10/01/2003 11:11	26:00:00	4359.048	1.089
194	STHTREES 5122.39			9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	22651.172	2.164	6.802	10/01/2003 11:11	26:00:00	4352.918	1.085
195	STHTREES 5493.40	ST9		9/01/2003 9:11	13.425	10/01/2003 12:31	27:20:00	22643.139	2.542	6.663	10/01/2003 11:11	26:00:00	4351.802	1.141
196	STHTREES 6390.90	ST10		9/01/2003 9:11	11.582	10/01/2003 12:37	27:26:40	22632.197	5.398	5.713	10/01/2003 11:24	26:13:19	4349.503	3.394
197	STHTREES 7658.80	ST11		9/01/2003 9:11	9.739	10/01/2003 12:57	27:46:40	22578.771	1.414	4.629	10/01/2003 12:04	26:53:20	4338.598	0.584
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	9.502	10/01/2003 13:04	27:53:20	22538.98	1.523	4.531	10/01/2003 12:11	27:00:00	4330.896	0.655
199	STHTREES 8251.05			9/01/2003 9:11	9.502	10/01/2003 13:04	27:53:20	22457.104	1.507	4.531	10/01/2003 12:11	27:00:00	4317.088	0.65
200	STHTREES 9287.10	ST12		9/01/2003 9:11	8.912	10/01/2003 13:04	27:53:20	22426.801	1.802	4.287	10/01/2003 12:17	27:06:39	4310.739	0.817
201	STHTREES 11258.10	ST13		9/01/2003 9:11	7.633	10/01/2003 13:17	28:06:39	22372.875	1.576	3.736	10/01/2003 12:37	27:26:40	4300.324	0.708
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.559	10/01/2003 13:24	28:13:19	22331.234	1.597	3.316	10/01/2003 12:50	27:39:59	4294.045	0.73
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.469	10/01/2003 13:31	28:20:00	22297.898	1.099	2.985	10/01/2003 13:04	27:53:20	4286.955	0.431
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	22289.102	4.14	2.42	9/01/2003 9:11	0:00:00	4284.553	0.796
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	103.343	1.115	10.477	9/01/2003 12:17	3:06:40	103.343	1.115
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	103.021	2.68	6.802	10/01/2003 11:11	26:00:00	103.021	2.68
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	102.642	0.358	6.802	10/01/2003 11:04	25:53:20	102.642	0.358
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	130.4	0.203	6.802	10/01/2003 11:11	26:00:00	101.272	0.203
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	13.781	10/01/2003 12:31	27:20:00	196.554	0.104	6.802	10/01/2003 11:11	26:00:00	98.119	0.104
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.083	9/01/2003 12:37	3:26:39	150.253	0.973	13.083	9/01/2003 12:37	3:26:39	150.253	0.973
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	9.503	10/01/2003 13:04	27:53:20	150.126	3.501	5.761	9/01/2003 12:37	3:26:39	150.126	3.501
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	9.503	10/01/2003 13:04	27:53:20	149.194	0.229	4.532	10/01/2003 12:11	27:00:00	149.194	0.229
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	9.502	10/01/2003 13:04	27:53:20	185.949	0.087	4.531	10/01/2003 12:11	27:00:00	145.813	0.087
214	ELEVENMILECK 3887.00			9/01/2003 9:11	9.502	10/01/2003 13:04	27:53:20	265.054	0.086	4.531	10/01/2003 12:11	27:00:00	143.49	0.086
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	33.491	10/01/2003 9:57	24:46:40	78.542	1.822	19.972	10/01/2003 6:04	20:53:20	78.542	1.822
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	33.49	10/01/2003 9:57	24:46:40	308.267	11.496	19.971	10/01/2003 6:04	20:53:20	128.811	7.929
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	33.49	10/01/2003 9:57	24:46:40	1108.472	0.153	19.965	10/01/2003 5:37	20:26:40	245.832	0.153
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	33.49	10/01/2003 9:57	24:46:40	1196.693	0.145	19.965	10/01/2003 5:37	20:26:40	226.979	0.145
219	SPILLWAY 0.00			9/01/2003 9:11	52.466	10/01/2003 2:57	17:46:40	16901.035	0.723	52.466	10/01/2003 2:57	17:46:40	11901.437	0.434
220	SPILLWAY 300.00			9/01/2003 9:11	45.804	10/01/2003 7:04	21:53:20	11896.006	0.527	25.728	10/01/2003 3:50	18:39:59	11896.006	0.527

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	53.748	10/01/2003 10:41	25:30:00	24759.627	1.126	53.778	10/01/2003 11:31	26:20:00	24759.256	1.126
2	BOYNERIVER 100.00			9/01/2003 9:11	53.744	10/01/2003 10:27	25:16:40	99906.367	4.728	53.772	10/01/2003 11:17	26:06:39	15741.3	0.686
3	BOYNERIVER 100.00			9/01/2003 9:11	53.744	10/01/2003 10:27	25:16:40	84774.758	4.026	53.772	10/01/2003 11:17	26:06:39	74.576	0.003
4	BOYNERIVER 150.00			9/01/2003 9:11	53.743	10/01/2003 10:27	25:16:40	83907.656	5.642	53.772	10/01/2003 11:17	26:06:39	52.159	0.003
5	BOYNERIVER 350.00			9/01/2003 9:11	47.59	10/01/2003 13:44	28:33:19	81348.398	5.59	28.249	10/01/2003 12:11	27:00:00	44.599	1.265
6	BOYNERIVER 420.00			9/01/2003 9:11	47.61	10/01/2003 13:44	28:33:19	80931.883	5.264	28.249	10/01/2003 12:11	27:00:00	59.295	1.312
7	BOYNERIVER 420.00			9/01/2003 9:11	47.61	10/01/2003 13:44	28:33:19	84911.547	5.594	28.249	10/01/2003 12:11	27:00:00	15707.614	2.379
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	47.337	10/01/2003 13:47	28:36:39	84262.234	4.404	27.738	10/01/2003 12:24	27:13:19	15705.163	2.593
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	44.803	10/01/2003 13:57	28:46:40	83998.648	7.252	26.879	10/01/2003 12:24	27:13:19	15700.854	2.872
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	41.979	10/01/2003 14:17	29:06:39	83769.008	8.435	25.794	10/01/2003 12:57	27:46:40	15698.117	3.244
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	41.636	10/01/2003 14:20	29:09:59	83792.914	7.586	25.587	10/01/2003 12:57	27:46:40	15697.916	2.792
12	BOYNERIVER 2182.33			9/01/2003 9:11	41.636	10/01/2003 14:20	29:09:59	77559.625	6.667	25.587	10/01/2003 12:57	27:46:40	15665.686	2.779
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	40.434	10/01/2003 14:20	29:09:59	77496.852	6.832	25.085	10/01/2003 13:11	28:00:00	15664.893	2.951
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	40.049	10/01/2003 14:31	29:20:00	77277.195	3.583	24.658	10/01/2003 13:24	28:13:19	15658.452	1.612
15	BOYNERIVER 3120.26			9/01/2003 9:11	40.049	10/01/2003 14:31	29:20:00	76385.523	3.478	24.658	10/01/2003 13:24	28:13:19	15626.593	1.605
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	39.865	10/01/2003 14:31	29:20:00	76290.75	3.332	24.546	10/01/2003 13:24	28:13:19	15623.223	1.607
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	38.171	10/01/2003 14:44	29:33:19	75988.453	5.244	23.887	10/01/2003 13:37	28:26:40	15612.5	2.267
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	35.472	10/01/2003 16:24	31:13:19	75798.695	7.67	22.509	10/01/2003 14:24	29:13:19	15604.61	3.35
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	35.228	10/01/2003 16:34	31:23:20	75506.359	4.339	22.079	10/01/2003 14:37	29:26:40	15590.552	1.691
20	BOYNERIVER 5457.30	B17.0	Little Oakly Ck	9/01/2003 9:11	35.228	10/01/2003 16:34	31:23:20	72845.891	4.1	22.079	10/01/2003 14:37	29:26:40	15490.97	1.665
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	35.137	10/01/2003 16:37	31:26:40	72508.906	2.95	21.8	10/01/2003 14:44	29:33:19	15476.009	2.079
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	71797.008	2.746	21.361	10/01/2003 15:04	29:53:20	15444.841	1.63
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	70442.328	2.66	21.361	10/01/2003 15:04	29:53:20	15406.791	1.62
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	34.493	10/01/2003 16:50	31:39:59	69745.406	3.301	20.853	10/01/2003 15:17	30:06:39	15385.13	2.1
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	34.074	10/01/2003 16:57	31:46:40	68857.063	3.683	20.383	10/01/2003 15:37	30:26:40	15360.396	1.858
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	34.074	10/01/2003 16:57	31:46:40	33677.43	1.871	20.383	10/01/2003 15:37	30:26:40	10135.902	1.838
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	34.017	10/01/2003 16:57	31:46:40	33107.668	1.965	20.265	10/01/2003 15:37	30:26:40	10111.585	1.447
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	34.009	10/01/2003 16:57	31:46:40	32713.182	1.444	20.241	10/01/2003 15:37	30:26:40	10094.109	0.886
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	33.834	10/01/2003 17:01	31:50:00	32380.986	2.977	20.104	10/01/2003 15:44	30:33:19	10078.373	1.643
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	33.62	10/01/2003 17:04	31:53:20	32160.98	3.644	19.92	10/01/2003 15:50	30:39:59	10069.197	1.865
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	33.66	10/01/2003 17:04	31:53:20	31921.201	2.475	19.851	10/01/2003 15:50	30:39:59	10063.465	1.576
32	BOYNERIVER 10401.00			9/01/2003 9:11	33.467	10/01/2003 17:04	31:53:20	32027.359	3.398	19.722	10/01/2003 15:57	30:46:40	10083.399	1.72
33	BOYNERIVER 10402.80			9/01/2003 9:11	33.474	10/01/2003 17:01	31:50:00	32030.871	3.399	19.725	10/01/2003 15:50	30:39:59	10083.799	1.721
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	33.513	10/01/2003 17:14	32:03:20	32024.725	3.388	19.743	10/01/2003 16:24	31:13:19	10081.475	1.718
35	BOYNERIVER 10414.00			9/01/2003 9:11	33.466	10/01/2003 17:04	31:53:20	32019.922	3.386	19.719	10/01/2003 15:57	30:46:40	10080.755	1.717
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	33.443	10/01/2003 17:04	31:53:20	31603.709	3.058	19.671	10/01/2003 15:57	30:46:40	10051.031	1.593
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	33.321	10/01/2003 17:07	31:56:40	31489.406	3.614	19.576	10/01/2003 16:04	30:53:20	10042.787	1.925
38	BOYNERIVER 10832.90			9/01/2003 9:11	33.321	10/01/2003 17:07	31:56:40	54571.168	4.992	19.576	10/01/2003 16:04	30:53:20	15008.493	2.56
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	31.149	10/01/2003 17:14	32:03:20	54561.629	7.639	18.703	10/01/2003 16:11	31:00:00	15007.029	3.833
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	54547.719	8.055	17.359	10/01/2003 16:11	31:00:00	15004.389	3.874
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	31981.104	4.795	17.359	10/01/2003 16:11	31:00:00	10295.765	2.662
42	BOYNERIVER 12303.00			9/01/2003 9:11	27.222	10/01/2003 17:37	32:26:39	31960.207	5.257	16.794	10/01/2003 16:31	31:20:00	10294.33	2.762
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	27.222	10/01/2003 17:37	32:26:39	31688.74	5.132	16.794	10/01/2003 16:31	31:20:00	10274.151	2.755

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	26.76	10/01/2003 17:41	32:30:00	31683.928	5.389		16.566	10/01/2003 16:31	31:20:00	10274.382	2.858
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	25.855	10/01/2003 17:47	32:36:39	31671.656	5.571		15.983	10/01/2003 16:50	31:39:59	10274.384	3.107
46	BOYNERIVER 12785.40			9/01/2003 9:11	25.855	10/01/2003 17:47	32:36:39	31293.979	5.366		15.983	10/01/2003 16:50	31:39:59	10253.724	3.093
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	25.481	10/01/2003 17:51	32:40:00	31292.363	5.601		15.797	10/01/2003 16:50	31:39:59	10253.658	3.188
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	25.371	10/01/2003 17:51	32:40:00	31283.738	3.78		15.608	10/01/2003 16:50	31:39:59	10252.841	2.131
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	23.639	10/01/2003 18:00	32:49:59	31266.945	5.339		14.719	10/01/2003 16:57	31:46:40	10250.833	3.132
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	22.886	10/01/2003 18:07	32:56:39	31254.588	4.534		14.356	10/01/2003 17:04	31:53:20	10250.251	2.4
51	BOYNERIVER 14304.56			9/01/2003 9:11	22.886	10/01/2003 18:07	32:56:39	30928.594	4.434		14.356	10/01/2003 17:04	31:53:20	10232.241	2.39
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	22.645	10/01/2003 18:07	32:56:39	30927.693	4.179		14.255	10/01/2003 17:04	31:53:20	10232.226	2.184
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	22.207	10/01/2003 18:11	33:00:00	30924.029	3.028		13.896	10/01/2003 17:04	31:53:20	10232.017	1.944
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	21.036	10/01/2003 18:11	33:00:00	30920.34	4.331		13.249	10/01/2003 17:11	32:00:00	10231.702	2.85
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	20.625	10/01/2003 18:14	33:03:20	30915.066	2.693		12.815	10/01/2003 17:11	32:00:00	10231.29	2.151
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	20.35	10/01/2003 18:14	33:03:20	30909.938	2.179		12.658	10/01/2003 17:11	32:00:00	10231.037	1.46
57	BOYNERIVER 16062.90			9/01/2003 9:11	20.35	10/01/2003 18:14	33:03:20	28569.467	2.052		12.658	10/01/2003 17:11	32:00:00	10603.72	1.516
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	20.305	10/01/2003 18:14	33:03:20	28564.088	1.963		12.625	10/01/2003 17:11	32:00:00	10603.402	1.412
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	19.243	10/01/2003 18:21	33:10:00	28539.369	4.371		12.038	10/01/2003 17:17	32:06:39	10601.892	2.634
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	18.39	10/01/2003 18:24	33:13:19	28523.156	4.5		11.457	10/01/2003 17:24	32:13:19	10600.824	2.734
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	16.899	10/01/2003 18:34	33:23:20	28513.207	6.847		10.484	10/01/2003 17:37	32:26:39	10600.217	4.493
62	BOYNERIVER 17722.19			9/01/2003 9:11	16.899	10/01/2003 18:34	33:23:20	4535.86	2.057		10.484	10/01/2003 17:37	32:26:39	3957.66	2.057
63	BOYNERIVER 17874.50			9/01/2003 9:11	16.893	10/01/2003 18:34	33:23:20	4516.463	2.362		10.377	10/01/2003 17:37	32:26:39	3954.497	2.362
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	16.891	10/01/2003 18:34	33:23:20	4480.966	2.059		10.309	10/01/2003 17:37	32:26:39	3947.388	2.059
65	BOYNERIVER 18184.66			9/01/2003 9:11	16.891	10/01/2003 18:34	33:23:20	26390.912	5.972		10.309	10/01/2003 17:37	32:26:39	8219.903	3.385
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	16.388	10/01/2003 18:34	33:23:20	26390.299	5.399		10.033	10/01/2003 17:37	32:26:39	8219.809	2.889
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	14.841	10/01/2003 18:37	33:26:39	26389.244	6.316		9.358	10/01/2003 17:44	32:33:20	8219.74	3.248
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	14.85	10/01/2003 18:37	33:26:39	26387.965	3.511		9.225	10/01/2003 17:44	32:33:20	8219.642	1.964
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	14.466	10/01/2003 18:41	33:30:00	26383.977	2.481		8.799	10/01/2003 17:44	32:33:20	8219.338	1.871
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	13.469	10/01/2003 18:41	33:30:00	26382.197	4.261		8.243	10/01/2003 17:44	32:33:20	8219.199	2.586
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	13.087	10/01/2003 18:41	33:30:00	26380.104	2.859		7.755	10/01/2003 17:44	32:33:20	8219.138	2.257
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	12.845	10/01/2003 18:41	33:30:00	26379.172	2.828		7.619	10/01/2003 17:44	32:33:20	8219.099	1.919
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	11.907	10/01/2003 18:41	33:30:00	26378.773	3.808		6.904	10/01/2003 17:51	32:40:00	8219.021	2.906
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	10.461	10/01/2003 18:41	33:30:00	26378.578	7.303		5.999	10/01/2003 17:51	32:40:00	8218.999	4.497
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.634	10/01/2003 18:44	33:33:20	26378.152	4.443		5.299	10/01/2003 17:51	32:40:00	8219.012	2.747
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.348	10/01/2003 18:44	33:33:20	26378.137	4.917		4.146	10/01/2003 22:24	37:13:19	8219.03	2.782
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	26378.244	22.033		2.42	9/01/2003 9:11	0:00:00	8219.035	6.865
78	COOMALCK 0.00	C1		9/01/2003 9:11	40.081	10/01/2003 14:27	29:16:40	193.098	1.796		38.064	9/01/2003 12:37	3:26:39	192.995	1.794
79	COOMALCK 398.20	C2		9/01/2003 9:11	40.074	10/01/2003 14:37	29:26:40	193.02	1.948		33.385	9/01/2003 12:37	3:26:39	192.915	3.106
80	COOMALCK 794.20	C3		9/01/2003 9:11	40.067	10/01/2003 14:27	29:16:40	192.975	1.612		29.684	9/01/2003 12:44	3:33:20	192.937	8.382
81	COOMALCK 1209.50	C4		9/01/2003 9:11	40.062	10/01/2003 14:24	29:13:19	192.959	1.619		26.636	9/01/2003 12:44	3:33:20	246.163	2.996
82	COOMALCK 1813.30	C5		9/01/2003 9:11	40.05	10/01/2003 14:24	29:13:19	192.907	2.008		24.659	10/01/2003 13:17	28:06:39	192.904	2.008
83	COOMALCK 2352.80	C6		9/01/2003 9:11	40.048	10/01/2003 14:31	29:20:00	193.545	1.196		24.659	10/01/2003 13:17	28:06:39	192.387	1.196
84	COOMALCK 3112.20	C7		9/01/2003 9:11	40.052	10/01/2003 14:31	29:20:00	380.217	2.14		24.657	10/01/2003 13:17	28:06:39	192.062	2.141
85	COOMALCK 3751.30	C8		9/01/2003 9:11	40.051	10/01/2003 14:31	29:20:00	561.322	1.124		24.657	10/01/2003 13:17	28:06:39	213.111	1.124
86	COOMALCK 4222.50	C9		9/01/2003 9:11	40.049	10/01/2003 14:31	29:20:00	665.493	2.52		24.657	10/01/2003 13:24	28:13:19	278.478	2.515
87	COOMALCK 4305.00			9/01/2003 9:11	40.049	10/01/2003 14:31	29:20:00	673.65	32.417		24.658	10/01/2003 13:24	28:13:19	278.776	31.183
88	YUNKACK 0.00	Y1		9/01/2003 9:11	34.839	10/01/2003 16:44	31:33:19	74.26	1.467		34.713	9/01/2003 11:44	2:33:20	73.421	1.459

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	
89	YUNKACK 574.20	Y2		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	73.563	1.72		26.994	9/01/2003 11:44	2:33:20	73.556	2.854
90	YUNKACK 948.90	Y3		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	73.023	1.157		22.403	9/01/2003 11:51	2:40:00	72.961	1.157
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	119.672	1.458		21.361	10/01/2003 15:04	29:53:20	72.636	1.458
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	243.256	1.18		21.361	10/01/2003 14:57	29:46:40	72.527	1.18
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	454.887	1.372		21.361	10/01/2003 14:57	29:46:40	86.688	1.371
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	34.837	10/01/2003 16:44	31:33:19	589.325	39.357		21.361	10/01/2003 15:04	29:53:20	124.387	39.392
95	TUCKERGULLY 0.00			9/01/2003 9:11	41.705	10/01/2003 14:31	29:20:00	262.678	0.814		36.799	9/01/2003 12:24	3:13:20	262.656	0.806
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	41.667	10/01/2003 14:27	29:16:40	258.967	2.14		34.682	9/01/2003 12:24	3:13:20	258.951	2.139
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	41.65	10/01/2003 14:24	29:13:19	262.375	1.88		29.736	9/01/2003 12:37	3:26:39	258.469	1.88
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	41.65	10/01/2003 14:24	29:13:19	290.037	2.407		26.512	9/01/2003 12:37	3:26:39	258.454	2.407
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	41.652	10/01/2003 14:24	29:13:19	394.936	2.089		25.591	10/01/2003 13:04	27:53:20	258.354	2.089
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	41.636	10/01/2003 14:20	29:09:59	463.228	1.696		25.59	10/01/2003 13:11	28:00:00	257.794	1.696
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	41.633	10/01/2003 14:20	29:09:59	585.299	1.892		25.589	10/01/2003 13:04	27:53:20	257.531	1.892
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	41.661	10/01/2003 14:20	29:09:59	808.949	2.58		25.59	10/01/2003 12:57	27:46:40	258.233	2.579
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	41.644	10/01/2003 14:20	29:09:59	920.215	2.79		25.588	10/01/2003 12:50	27:39:59	257.419	2.786
104	TUCKERGULLY 5765.40			9/01/2003 9:11	41.644	10/01/2003 14:20	29:09:59	1584.6	2.793		25.588	10/01/2003 12:50	27:39:59	257.907	2.791
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	41.639	10/01/2003 14:20	29:09:59	1853.05	1.128		25.587	10/01/2003 12:57	27:46:40	250.116	1.125
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	41.636	10/01/2003 14:20	29:09:59	2039.89	4.89		25.587	10/01/2003 12:57	27:46:40	294.896	4.739
107	TUCKERTRIB 0.00			9/01/2003 9:11	41.658	10/01/2003 14:14	29:03:19	2.5	0.274		30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	41.658	10/01/2003 14:14	29:03:19	48.346	0.639		30.261	9/01/2003 9:11	0:00:00	2.5	0.563
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	41.649	10/01/2003 14:27	29:16:40	116.364	3.278		27.265	9/01/2003 9:11	0:00:00	14.729	6.733
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	41.638	10/01/2003 14:24	29:13:19	212.775	1.023		25.597	10/01/2003 13:04	27:53:20	31.831	1.269
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	41.652	10/01/2003 14:24	29:13:19	347.743	0.316		25.589	10/01/2003 12:37	27:26:40	51.948	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	41.637	10/01/2003 14:14	29:03:19	471.274	0.652		25.592	10/01/2003 12:37	27:26:40	56.018	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	41.626	10/01/2003 14:20	29:09:59	567.358	0.387		25.594	10/01/2003 12:37	27:26:40	68.297	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	41.644	10/01/2003 14:20	29:09:59	694.495	6.064		25.588	10/01/2003 12:50	27:39:59	96.175	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	33.361	10/01/2003 17:07	31:56:40	530.677	0.975		19.6	10/01/2003 16:04	30:53:20	530.655	0.929
116	STATIONCK 684.50	S2		9/01/2003 9:11	33.361	10/01/2003 17:07	31:56:40	522.027	1.142		19.6	10/01/2003 16:04	30:53:20	521.834	1.136
117	STATIONCK 1599.70	S3		9/01/2003 9:11	33.36	10/01/2003 17:07	31:56:40	1179.253	1.17		19.6	10/01/2003 16:04	30:53:20	516.775	1.063
118	STATIONCK 2431.30	S4		9/01/2003 9:11	33.36	10/01/2003 17:07	31:56:40	1848.732	1.006		19.6	10/01/2003 16:04	30:53:20	512.394	1.006
119	STATIONCK 3013.70	S5		9/01/2003 9:11	33.359	10/01/2003 17:07	31:56:40	2370.855	0.805		19.6	10/01/2003 16:04	30:53:20	506.25	0.803
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	33.358	10/01/2003 17:07	31:56:40	2954.119	1.008		19.6	10/01/2003 16:04	30:53:20	506.124	1.008
121	STATIONCK 4481.70	S7		9/01/2003 9:11	33.357	10/01/2003 17:07	31:56:40	3433.366	1.112		19.6	10/01/2003 16:04	30:53:20	544.372	1.111
122	STATIONCK 5140.80	S8		9/01/2003 9:11	33.356	10/01/2003 17:07	31:56:40	3897.207	0.593		19.6	10/01/2003 16:04	30:53:20	667.763	0.593
123	STATIONCK 5918.90	S9		9/01/2003 9:11	33.355	10/01/2003 17:07	31:56:40	4496.257	0.493		19.6	10/01/2003 16:04	30:53:20	828.111	0.491
124	STATIONCK 6575.50	S10		9/01/2003 9:11	33.354	10/01/2003 17:07	31:56:40	4916.815	0.371		19.599	10/01/2003 16:04	30:53:20	926.789	0.371
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	33.353	10/01/2003 17:07	31:56:40	5127.369	0.334		19.599	10/01/2003 16:04	30:53:20	967.484	0.333
126	STATIONCK 6954.40			9/01/2003 9:11	33.353	10/01/2003 17:07	31:56:40	29211.189	0.882		19.599	10/01/2003 16:04	30:53:20	5247.636	0.473
127	STATIONCK 7691.00	S11		9/01/2003 9:11	33.321	10/01/2003 17:07	31:56:40	29350.643	0.86		19.576	10/01/2003 16:04	30:53:20	5264.36	0.503
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.288	9/01/2003 12:14	3:03:20	241.986	1.116		34.288	9/01/2003 12:11	3:00:00	241.972	1.112
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.39	9/01/2003 12:17	3:06:40	240.888	1.179		29.39	9/01/2003 12:17	3:06:40	240.895	1.179
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.142	9/01/2003 12:21	3:10:00	240.761	1.574		27.141	9/01/2003 12:17	3:06:40	240.639	1.574
131	MACHINECK 1699.10	M4		9/01/2003 9:11	25.858	10/01/2003 17:47	32:36:39	240.078	0.954		23.693	9/01/2003 12:30	3:19:59	240.02	0.954
132	MACHINECK 2214.80	M5		9/01/2003 9:11	25.858	10/01/2003 17:47	32:36:39	239.846	2.512		21.217	9/01/2003 12:30	3:19:59	239.842	2.282
133	MACHINECK 2730.60	M6		9/01/2003 9:11	25.858	10/01/2003 17:47	32:36:39	239.771	1.522		17.611	9/01/2003 12:37	3:26:39	239.721	1.465

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
134	MACHINECK 3140.90	M7		9/01/2003 9:11	25.858	10/01/2003 17:47	32:36:39	239.718	1.85		15.984	10/01/2003 16:44	31:33:19	239.717	1.835
135	MACHINECK 3611.90	M8		9/01/2003 9:11	25.857	10/01/2003 17:47	32:36:39	239.55	1.079		15.984	10/01/2003 16:37	31:26:40	239.532	1.078
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	25.857	10/01/2003 17:47	32:36:39	265.431	1.577		15.984	10/01/2003 16:44	31:33:19	238.58	1.577
137	MACHINECK 5099.90	M10		9/01/2003 9:11	25.857	10/01/2003 17:47	32:36:39	428.099	2.282		15.984	10/01/2003 16:37	31:26:40	238.143	2.282
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	25.856	10/01/2003 17:47	32:36:39	575.44	0.931		15.984	10/01/2003 16:44	31:33:19	234.872	0.927
139	MACHINECK 6711.00	M12		9/01/2003 9:11	25.855	10/01/2003 17:47	32:36:39	701.596	1.425		15.983	10/01/2003 16:50	31:39:59	221.075	1.424
140	O'LANDBOYNE 0.00			9/01/2003 9:11	34.074	10/01/2003 16:57	31:46:40	35492.699	1.749		20.383	10/01/2003 15:37	30:26:40	5287.935	1.437
141	O'LANDBOYNE 304.10	O2-1		9/01/2003 9:11	34.037	10/01/2003 16:57	31:46:40	35112.715	1.736		20.327	10/01/2003 15:37	30:26:40	5280.349	1.672
142	O'LANDBOYNE 1252.20	O2-2		9/01/2003 9:11	33.908	10/01/2003 17:01	31:50:00	34055.441	5.158		20.149	10/01/2003 15:44	30:33:19	5259.137	5.161
143	O'LANDBOYNE 1924.60	O2-3		9/01/2003 9:11	33.657	10/01/2003 17:04	31:53:20	33533.898	3.172		19.92	10/01/2003 15:50	30:39:59	5248.706	2.793
144	O'LANDBOYNE 2385.50			9/01/2003 9:11	33.429	10/01/2003 17:07	31:56:40	33274.543	3.777		19.7	10/01/2003 15:57	30:46:40	5243.504	2.013
145	O'LANDBOYNE 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	33.353	10/01/2003 17:07	31:56:40	33165.902	3.843		19.599	10/01/2003 16:04	30:53:20	5241.121	2.381
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.761	9/01/2003 11:44	2:33:20	109.154	0.987		26.761	9/01/2003 11:44	2:33:20	108.123	0.981
147	WURDONGCK 616.40	W2		9/01/2003 9:11	22.888	10/01/2003 18:07	32:56:39	107.12	1.35		21.557	9/01/2003 11:51	2:40:00	107.115	0.98
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	22.887	10/01/2003 18:07	32:56:39	106.676	0.954		16.472	9/01/2003 12:04	2:53:19	106.677	0.954
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	22.887	10/01/2003 18:07	32:56:39	103.159	1.014		14.356	10/01/2003 17:04	31:53:20	103.046	1.014
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	22.887	10/01/2003 18:07	32:56:39	281.45	0.747		14.356	10/01/2003 17:04	31:53:20	100.272	0.747
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	22.887	10/01/2003 18:07	32:56:39	740.122	0.365		14.356	10/01/2003 17:04	31:53:20	120.215	0.365
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	22.886	10/01/2003 18:07	32:56:39	1162.404	0.888		14.356	10/01/2003 17:04	31:53:20	236.059	0.886
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	27.223	10/01/2003 17:37	32:26:39	3.5	0.268		24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	27.223	10/01/2003 17:37	32:26:39	50.722	3.423		16.796	10/01/2003 16:17	31:06:39	29.686	6.203
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	27.222	10/01/2003 17:37	32:26:39	142.58	0.143		16.794	10/01/2003 16:24	31:13:19	33.418	0.227
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	27.222	10/01/2003 17:37	32:26:39	238.188	0.445		16.793	10/01/2003 16:24	31:13:19	34.577	0.443
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	27.222	10/01/2003 17:37	32:26:39	301.272	1.359		16.794	10/01/2003 16:31	31:20:00	56.818	1.359
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	27.222	10/01/2003 17:37	32:26:39	365.464	2.993		16.794	10/01/2003 16:31	31:20:00	83.24	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	28.282	10/01/2003 17:27	32:16:40	1.5	0.167		18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	66.897	0.395		17.364	10/01/2003 16:17	31:06:39	42.763	10.138
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	141.319	0.641		17.361	10/01/2003 16:11	31:00:00	44.518	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	256.638	0.519		17.361	10/01/2003 16:24	31:13:19	44.601	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	407.222	1.329		17.359	10/01/2003 16:11	31:00:00	77.895	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	28.281	10/01/2003 17:27	32:16:40	22595.939	7.007		17.359	10/01/2003 16:11	31:00:00	4721.05	3.084
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	23.145	10/01/2003 17:34	32:23:20	22594.201	9.319		14.854	10/01/2003 16:31	31:20:00	4721.442	4.135
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	21.3	10/01/2003 18:00	32:49:59	22587.303	4.416		13.893	10/01/2003 16:37	31:26:40	4720.653	2.078
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	20.44	10/01/2003 18:11	33:00:00	22543.648	3.258		12.834	10/01/2003 17:04	31:53:20	4719.45	2.698
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	20.349	10/01/2003 18:14	33:03:20	22498.703	1.782		12.658	10/01/2003 17:11	32:00:00	4717.736	0.975
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	20.349	10/01/2003 18:14	33:03:20	2603.631	0.477		12.658	10/01/2003 17:11	32:00:00	817.964	0.477
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	20.35	10/01/2003 18:14	33:03:20	2544.184	0.694		12.658	10/01/2003 17:11	32:00:00	808.747	0.694
171	O'LAND01 0.00			9/01/2003 9:11	20.349	10/01/2003 18:14	33:03:20	24727.461	2.971		12.658	10/01/2003 17:11	32:00:00	4341.271	1.388
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	19.596	10/01/2003 18:17	33:06:39	24714.711	3.196		12.255	10/01/2003 17:17	32:06:39	4340.741	1.498
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	19.05	10/01/2003 18:24	33:13:19	24692.82	2.607		11.716	10/01/2003 17:24	32:13:19	4339.562	1.423
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	18.843	10/01/2003 18:24	33:13:19	24677.855	2.242		11.435	10/01/2003 17:30	32:19:59	4338.655	1.161
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	18.537	10/01/2003 18:27	33:16:40	24647.49	1.917		11.143	10/01/2003 17:30	32:19:59	4336.646	0.902
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	18.31	10/01/2003 18:27	33:16:40	24618.414	1.743		10.987	10/01/2003 17:37	32:26:39	4334.966	0.777
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	17.693	10/01/2003 18:30	33:19:59	24597.092	3.211		10.625	10/01/2003 17:37	32:26:39	4334.185	2.211
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	17.694	10/01/2003 18:30	33:19:59	68.671	0.336		10.625	10/01/2003 17:37	32:26:39	68.321	0.336

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF Failure					24hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
179	CATTLECK 743.60	CC2		9/01/2003 9:11	17.694	10/01/2003 18:30	33:19:59	147.018	0.91		10.625	10/01/2003 17:37	32:26:39	67.385	0.907
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	17.694	10/01/2003 18:30	33:19:59	264.875	0.875		10.625	10/01/2003 17:37	32:26:39	63.965	0.875
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	17.693	10/01/2003 18:30	33:19:59	393.499	0.208		10.625	10/01/2003 17:37	32:26:39	69.137	0.208
182	CATTLECK 1994.43			9/01/2003 9:11	17.693	10/01/2003 18:30	33:19:59	24513.574	2.175		10.625	10/01/2003 17:37	32:26:39	4332.708	0.867
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	17.334	10/01/2003 18:34	33:23:20	24511.707	3.203		10.476	10/01/2003 17:37	32:26:39	4332.696	1.821
184	CATTLECK 2335.00			9/01/2003 9:11	16.891	10/01/2003 18:34	33:23:20	24508.24	3.415		10.309	10/01/2003 17:37	32:26:39	4332.682	1.878
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	16.899	10/01/2003 18:34	33:23:20	26680.359	1.816		10.484	10/01/2003 17:37	32:26:39	6708.929	1.812
186	STHTREES 851.80	ST2		9/01/2003 9:11	16.13	10/01/2003 18:44	33:33:20	26549.309	1.647		9.408	10/01/2003 18:04	32:53:20	6700.738	1.051
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	15.879	10/01/2003 18:47	33:36:39	26446.193	1.67		9.124	10/01/2003 18:17	33:06:39	6692.395	1.267
188	STHTREES 2361.30	ST4		9/01/2003 9:11	15.661	10/01/2003 18:47	33:36:39	26347.996	1.478		8.9	10/01/2003 18:24	33:13:19	6683.86	0.862
189	STHTREES 2829.50	ST5		9/01/2003 9:11	15.611	10/01/2003 18:51	33:40:00	26288.516	1.084		8.825	10/01/2003 18:24	33:13:19	6678.256	0.686
190	STHTREES 3773.50	ST6		9/01/2003 9:11	15.427	10/01/2003 18:51	33:40:00	26196.207	1.265		8.683	10/01/2003 18:30	33:19:59	6668.94	0.71
191	STHTREES 4171.60	ST7		9/01/2003 9:11	15.262	10/01/2003 18:51	33:40:00	26175.281	1.726		8.602	10/01/2003 18:30	33:19:59	6666.608	0.876
192	STHTREES 4595.40	ST8		9/01/2003 9:11	14.961	10/01/2003 18:54	33:43:19	26160.613	2.332		8.446	10/01/2003 18:30	33:19:59	6664.915	1.263
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	14.628	10/01/2003 18:54	33:43:19	26143.641	2.292		8.219	10/01/2003 18:37	33:26:39	6663.433	1.322
194	STHTREES 5122.39			9/01/2003 9:11	14.628	10/01/2003 18:54	33:43:19	26103.449	2.275		8.219	10/01/2003 18:37	33:26:39	6660.432	1.321
195	STHTREES 5493.40	ST9		9/01/2003 9:11	14.24	10/01/2003 18:57	33:46:40	26096.947	2.711		8.048	10/01/2003 18:37	33:26:39	6659.846	1.398
196	STHTREES 6390.90	ST10		9/01/2003 9:11	12.282	10/01/2003 19:00	33:49:59	26086.307	5.69		6.936	10/01/2003 18:44	33:33:20	6658.584	3.684
197	STHTREES 7658.80	ST11		9/01/2003 9:11	10.357	10/01/2003 19:21	34:10:00	26039.533	1.524		5.663	10/01/2003 19:24	34:13:19	6652.194	0.728
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	10.101	10/01/2003 19:24	34:13:19	26005.963	1.633		5.539	10/01/2003 19:30	34:19:59	6647.52	0.813
199	STHTREES 8251.05			9/01/2003 9:11	10.101	10/01/2003 19:24	34:13:19	25931.77	1.62		5.539	10/01/2003 19:30	34:19:59	6638.884	0.81
200	STHTREES 9287.10	ST12		9/01/2003 9:11	9.463	10/01/2003 19:27	34:16:40	25905.654	1.933		5.228	10/01/2003 19:37	34:26:39	6634.467	0.999
201	STHTREES 11258.10	ST13		9/01/2003 9:11	8.091	10/01/2003 19:34	34:23:20	25859.52	1.682		4.536	10/01/2003 19:51	34:40:00	6626.529	0.871
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.93	10/01/2003 19:44	34:33:20	25826.914	1.693		3.981	10/01/2003 20:11	35:00:00	6620.993	0.924
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.686	10/01/2003 19:47	34:36:39	25806.578	1.216		3.489	10/01/2003 20:24	35:13:19	6612.646	0.56
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	25802.318	4.793		2.42	9/01/2003 9:11	0:00:00	6609.125	1.228
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	14.629	10/01/2003 18:54	33:43:19	122.053	1.39		10.602	9/01/2003 11:44	2:33:20	121.234	1.39
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	14.629	10/01/2003 18:54	33:43:19	121.065	1.891		8.219	10/01/2003 18:37	33:26:39	120.952	1.891
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	14.629	10/01/2003 18:54	33:43:19	120.624	0.402		8.219	10/01/2003 18:37	33:26:39	120.633	0.402
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	14.629	10/01/2003 18:54	33:43:19	140.71	0.238		8.219	10/01/2003 18:37	33:26:39	119.177	0.238
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	14.628	10/01/2003 18:54	33:43:19	209.577	0.124		8.219	10/01/2003 18:37	33:26:39	117.013	0.124
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.129	9/01/2003 11:54	2:43:20	163.13	1.041		13.129	9/01/2003 11:51	2:40:00	162.999	1.041
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	10.102	10/01/2003 19:24	34:13:19	162.311	3.568		5.874	9/01/2003 11:57	2:46:39	162.311	3.568
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	10.102	10/01/2003 19:24	34:13:19	161.368	0.246		5.539	10/01/2003 19:24	34:13:19	161.344	0.246
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	10.101	10/01/2003 19:24	34:13:19	199.719	0.095		5.539	10/01/2003 19:30	34:19:59	159.485	0.095
214	ELEVENMILECK 3887.00			9/01/2003 9:11	10.101	10/01/2003 19:24	34:13:19	281.244	0.094		5.539	10/01/2003 19:30	34:19:59	157.98	0.094
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	35.229	10/01/2003 16:34	31:23:20	88.179	1.858		22.079	10/01/2003 14:37	29:26:40	87.499	1.858
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	35.228	10/01/2003 16:34	31:23:20	317.484	1.958		22.079	10/01/2003 14:37	29:26:40	86.95	1.958
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	35.228	10/01/2003 16:34	31:23:20	1144.102	0.207		22.079	10/01/2003 14:37	29:26:40	295.069	0.206
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	35.228	10/01/2003 16:34	31:23:20	1237.551	0.199		22.079	10/01/2003 14:37	29:26:40	319.108	0.198
219	SPILLWAY 0.00			9/01/2003 9:11	53.744	10/01/2003 10:27	25:16:40	16347.504	0.96		53.772	10/01/2003 11:17	26:06:39	15725.043	0.548
220	SPILLWAY 300.00			9/01/2003 9:11	47.61	10/01/2003 13:44	28:33:19	15605.612	0.624		28.249	10/01/2003 12:11	27:00:00	15707.819	0.625



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
1	BOYNERIVER 0.00			9/01/2003 9:11	53.769	11/01/2003 6:04	44:53:20	18735.986	0.838	53.769	11/01/2003 6:04	44:53:20	18735.973	0.838
2	BOYNERIVER 100.00			9/01/2003 9:11	53.762	11/01/2003 5:51	44:40:00	99831.586	4.728	53.762	11/01/2003 5:51	44:40:00	15694.836	0.684
3	BOYNERIVER 100.00			9/01/2003 9:11	53.762	11/01/2003 5:51	44:40:00	84479.195	4.032	53.762	11/01/2003 5:51	44:40:00	68.392	0.003
4	BOYNERIVER 150.00			9/01/2003 9:11	53.762	11/01/2003 5:51	44:40:00	83643.406	5.645	53.762	11/01/2003 5:51	44:40:00	47.69	0.003
5	BOYNERIVER 350.00			9/01/2003 9:11	47.584	11/01/2003 10:00	48:49:59	81202.242	5.585	28.384	11/01/2003 6:51	45:40:00	44.639	1.266
6	BOYNERIVER 420.00			9/01/2003 9:11	47.622	11/01/2003 10:00	48:49:59	80808.891	5.256	28.384	11/01/2003 6:51	45:40:00	59.434	1.325
7	BOYNERIVER 420.00			9/01/2003 9:11	47.622	11/01/2003 10:00	48:49:59	84916.625	5.588	28.384	11/01/2003 6:51	45:40:00	15687.134	2.352
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	47.373	11/01/2003 10:00	48:49:59	84264.07	4.397	27.888	11/01/2003 6:51	45:40:00	15687.217	2.546
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	44.839	11/01/2003 10:11	49:00:00	83986.32	7.245	27.047	11/01/2003 6:44	45:33:20	15687.251	2.832
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	42.02	11/01/2003 10:34	49:23:20	83765.219	8.424	25.992	11/01/2003 7:04	45:53:20	15685.461	3.174
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	41.678	11/01/2003 10:34	49:23:20	83679.875	7.576	25.79	11/01/2003 7:30	46:19:59	15684.485	2.743
12	BOYNERIVER 2182.33			9/01/2003 9:11	41.678	11/01/2003 10:34	49:23:20	77502.641	6.647	25.79	11/01/2003 7:30	46:19:59	15720.948	2.746
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	40.486	11/01/2003 10:37	49:26:39	77443.586	6.801	25.301	11/01/2003 7:44	46:33:20	15722.611	2.896
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	40.114	11/01/2003 10:51	49:40:00	77232.109	3.563	24.889	11/01/2003 7:44	46:33:20	15724.382	1.577
15	BOYNERIVER 3120.26			9/01/2003 9:11	40.114	11/01/2003 10:51	49:40:00	76244.766	3.469	24.889	11/01/2003 7:44	46:33:20	15735.716	1.578
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	39.936	11/01/2003 10:51	49:40:00	76181.813	3.324	24.781	11/01/2003 7:44	46:33:20	15734.821	1.575
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	38.262	11/01/2003 11:11	50:00:00	76013.352	5.232	24.137	11/01/2003 7:51	46:40:00	15730.439	2.222
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	35.623	11/01/2003 12:41	51:30:00	75829.898	7.633	22.802	11/01/2003 7:57	46:46:40	15726.819	3.199
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	35.387	11/01/2003 12:51	51:40:00	75521.039	4.313	22.388	11/01/2003 8:24	47:13:19	15723.945	1.629
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	35.387	11/01/2003 12:51	51:40:00	72888.781	4.074	22.388	11/01/2003 8:24	47:13:19	15713.721	1.625
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	35.298	11/01/2003 12:54	51:43:19	72559.641	2.925	22.123	11/01/2003 8:30	47:19:59	15710.366	2.035
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	35	11/01/2003 12:57	51:46:40	71841.18	2.719	21.708	11/01/2003 8:37	47:26:39	15704.312	1.573
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	35	11/01/2003 12:57	51:46:40	70531.477	2.638	21.708	11/01/2003 8:37	47:26:39	15784.244	1.582
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	34.66	11/01/2003 13:04	51:53:20	69830.984	3.249	21.213	11/01/2003 8:57	47:46:40	15779.337	2.017
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	34.242	11/01/2003 13:11	52:00:00	68949.156	3.631	20.753	11/01/2003 9:11	48:00:00	15773.729	1.837
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	34.242	11/01/2003 13:11	52:00:00	33590.383	1.829	20.753	11/01/2003 9:11	48:00:00	10147.078	1.82
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	34.186	11/01/2003 13:11	52:00:00	33030.266	1.917	20.64	11/01/2003 9:11	48:00:00	10142.355	1.413
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	34.177	11/01/2003 13:11	52:00:00	32652.928	1.42	20.617	11/01/2003 9:11	48:00:00	10138.68	0.857
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	34.002	11/01/2003 13:14	52:03:20	32326.6	2.928	20.482	11/01/2003 9:17	48:06:39	10135.151	1.562
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	33.787	11/01/2003 13:17	52:06:39	32110.584	3.582	20.3	11/01/2003 9:17	48:06:39	10133.414	1.788
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	33.829	11/01/2003 13:17	52:06:39	31893.539	2.427	20.234	11/01/2003 9:17	48:06:39	10136.502	1.517
32	BOYNERIVER 10401.00			9/01/2003 9:11	33.635	11/01/2003 13:21	52:10:00	32143.168	3.369	20.106	11/01/2003 9:30	48:19:59	10160.374	1.637
33	BOYNERIVER 10402.80			9/01/2003 9:11	33.648	11/01/2003 13:14	52:03:20	32149.449	3.37	20.11	11/01/2003 9:37	48:26:39	10160.791	1.638
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	33.732	11/01/2003 13:27	52:16:40	32155.389	3.354	20.133	11/01/2003 9:17	48:06:39	10159.645	1.637
35	BOYNERIVER 10414.00			9/01/2003 9:11	33.635	11/01/2003 13:17	52:06:39	32149.539	3.352	20.103	11/01/2003 9:44	48:33:20	10159.395	1.636
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	33.611	11/01/2003 13:21	52:10:00	31578.119	3.005	20.057	11/01/2003 9:30	48:19:59	10136.18	1.512
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	33.488	11/01/2003 13:21	52:10:00	31458.691	3.547	19.962	11/01/2003 9:30	48:19:59	10130.394	1.823
38	BOYNERIVER 10832.90			9/01/2003 9:11	33.488	11/01/2003 13:21	52:10:00	55181.84	5.019	19.962	11/01/2003 9:30	48:19:59	15705.394	2.613
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	31.3	11/01/2003 13:27	52:16:40	55174.031	7.68	19.065	11/01/2003 9:37	48:26:39	15705.066	3.912
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	28.414	11/01/2003 13:41	52:30:00	55159.918	8.097	17.694	11/01/2003 9:37	48:26:39	15705.545	3.953
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	28.414	11/01/2003 13:41	52:30:00	32284.398	4.805	17.694	11/01/2003 9:37	48:26:39	10661.368	2.684
42	BOYNERIVER 12303.00			9/01/2003 9:11	27.349	11/01/2003 13:51	52:40:00	32265.068	5.268	17.122	11/01/2003 9:37	48:26:39	10662.284	2.79
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	27.349	11/01/2003 13:51	52:40:00	32004.619	5.152	17.122	11/01/2003 9:37	48:26:39	10658.311	2.788

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	26.884	11/01/2003 13:54	52:43:19	32000.24	5.41	16.891	11/01/2003 9:37	48:26:39	10658.178	2.892
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	25.975	11/01/2003 14:00	52:49:59	31989.037	5.581	16.302	11/01/2003 9:57	48:46:40	10658.276	3.138
46	BOYNERIVER 12785.40			9/01/2003 9:11	25.975	11/01/2003 14:00	52:49:59	31627.592	5.392	16.302	11/01/2003 9:57	48:46:40	10660.815	3.138
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	25.6	11/01/2003 14:04	52:53:20	31625.967	5.626	16.103	11/01/2003 9:57	48:46:40	10660.711	3.239
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	25.493	11/01/2003 14:04	52:53:20	31617.297	3.799	15.886	11/01/2003 10:11	49:00:00	10660.01	2.167
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	23.749	11/01/2003 14:14	53:03:20	31602.139	5.362	14.981	11/01/2003 10:11	49:00:00	10660.194	3.172
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	22.992	11/01/2003 14:21	53:10:00	31589.953	4.557	14.613	11/01/2003 10:17	49:06:39	10660.168	2.444
51	BOYNERIVER 14304.56			9/01/2003 9:11	22.992	11/01/2003 14:21	53:10:00	31284.846	4.464	14.613	11/01/2003 10:17	49:06:39	10672.232	2.447
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	22.749	11/01/2003 14:24	53:13:19	31284.035	4.208	14.51	11/01/2003 10:17	49:06:39	10672.152	2.238
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	22.313	11/01/2003 14:24	53:13:19	31280.047	3.043	14.147	11/01/2003 10:17	49:06:39	10671.891	1.977
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	21.135	11/01/2003 14:27	53:16:40	31276.439	4.352	13.489	11/01/2003 10:17	49:06:39	10671.611	2.89
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	20.728	11/01/2003 14:27	53:16:40	31271.809	2.701	13.059	11/01/2003 10:24	49:13:19	10671.476	2.155
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	20.454	11/01/2003 14:27	53:16:40	31266.404	2.189	12.9	11/01/2003 10:24	49:13:19	10671.339	1.478
57	BOYNERIVER 16062.90			9/01/2003 9:11	20.454	11/01/2003 14:27	53:16:40	28841.059	2.053	12.9	11/01/2003 10:24	49:13:19	11016.346	1.526
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	20.409	11/01/2003 14:27	53:16:40	28836.326	1.965	12.868	11/01/2003 10:24	49:13:19	11016.26	1.423
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	19.341	11/01/2003 14:34	53:23:20	28812.832	4.386	12.27	11/01/2003 10:30	49:19:59	11015.8	2.68
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	18.486	11/01/2003 14:41	53:30:00	28797.822	4.514	11.681	11/01/2003 10:37	49:26:39	11015.491	2.78
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	16.989	11/01/2003 14:47	53:36:39	28788.117	6.844	10.689	11/01/2003 10:51	49:40:00	11015.381	4.554
62	BOYNERIVER 17722.19			9/01/2003 9:11	16.989	11/01/2003 14:47	53:36:39	4468.326	2.021	10.689	11/01/2003 10:51	49:40:00	3911.748	2.021
63	BOYNERIVER 17874.50			9/01/2003 9:11	16.984	11/01/2003 14:47	53:36:39	4447.546	2.309	10.586	11/01/2003 10:51	49:40:00	3911.484	2.309
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	16.982	11/01/2003 14:47	53:36:39	4404.509	2.02	10.522	11/01/2003 10:51	49:40:00	3910.91	2.02
65	BOYNERIVER 18184.66			9/01/2003 9:11	16.982	11/01/2003 14:47	53:36:39	26737.949	6.013	10.522	11/01/2003 10:51	49:40:00	8607.859	3.46
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	16.475	11/01/2003 14:51	53:40:00	26737.277	5.438	10.239	11/01/2003 10:51	49:40:00	8607.843	2.956
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	14.914	11/01/2003 14:51	53:40:00	26736.705	6.364	9.541	11/01/2003 10:51	49:40:00	8607.815	3.335
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	14.926	11/01/2003 14:54	53:43:19	26735.465	3.532	9.409	11/01/2003 10:51	49:40:00	8607.772	2.009
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	14.545	11/01/2003 14:54	53:43:19	26731.273	2.489	8.985	11/01/2003 10:51	49:40:00	8607.696	1.881
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	13.542	11/01/2003 14:54	53:43:19	26729.77	4.283	8.416	11/01/2003 10:57	49:46:40	8607.653	2.635
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	13.163	11/01/2003 14:54	53:43:19	26727.371	2.867	7.926	11/01/2003 10:57	49:46:40	8607.607	2.277
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	12.919	11/01/2003 14:54	53:43:19	26726.996	2.843	7.789	11/01/2003 10:57	49:46:40	8607.587	1.942
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	11.979	11/01/2003 14:54	53:43:19	26726.291	3.82	7.064	11/01/2003 10:57	49:46:40	8607.594	2.933
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	10.532	11/01/2003 14:54	53:43:19	26725.982	7.333	6.119	11/01/2003 10:57	49:46:40	8607.595	4.633
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.681	11/01/2003 14:57	53:46:40	26725.777	4.47	5.401	11/01/2003 10:57	49:46:40	8607.593	2.793
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.379	11/01/2003 14:57	53:46:40	26725.928	4.95	4.192	11/01/2003 10:57	49:46:40	8607.585	2.846
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	26725.961	22.324	2.42	9/01/2003 9:11	0:00:00	8607.58	7.19
78	COOMALCK 0.00	C1		9/01/2003 9:11	40.163	11/01/2003 10:44	49:33:20	137.451	1.714	37.74	9/01/2003 11:44	2:33:20	137.394	1.711
79	COOMALCK 398.20	C2		9/01/2003 9:11	40.137	11/01/2003 10:44	49:33:20	137.368	1.676	33.058	9/01/2003 11:44	2:33:20	137.248	1.852
80	COOMALCK 794.20	C3		9/01/2003 9:11	40.126	11/01/2003 10:54	49:43:19	137.398	1.431	29.377	9/01/2003 11:51	2:40:00	137.308	1.431
81	COOMALCK 1209.50	C4		9/01/2003 9:11	40.125	11/01/2003 10:41	49:30:00	137.25	1.45	26.311	9/01/2003 9:24	0:13:20	137.245	1.801
82	COOMALCK 1813.30	C5		9/01/2003 9:11	40.115	11/01/2003 10:41	49:30:00	137.278	1.77	24.89	11/01/2003 7:37	46:26:39	137.273	1.77
83	COOMALCK 2352.80	C6		9/01/2003 9:11	40.115	11/01/2003 10:47	49:36:39	185.773	1.036	24.889	11/01/2003 7:37	46:26:39	139.594	1.035
84	COOMALCK 3112.20	C7		9/01/2003 9:11	40.113	11/01/2003 10:47	49:36:39	370.37	1.79	24.889	11/01/2003 7:17	46:06:39	206.401	1.79
85	COOMALCK 3751.30	C8		9/01/2003 9:11	40.113	11/01/2003 10:51	49:40:00	548.79	0.98	24.889	11/01/2003 7:24	46:13:19	249.585	0.98
86	COOMALCK 4222.50	C9		9/01/2003 9:11	40.114	11/01/2003 10:51	49:40:00	646.194	2.468	24.889	11/01/2003 7:30	46:19:59	308.689	2.462
87	COOMALCK 4305.00			9/01/2003 9:11	40.114	11/01/2003 10:51	49:40:00	654.07	27.794	24.889	11/01/2003 7:44	46:33:20	310.5	26.634
88	YUNKACK 0.00	Y1		9/01/2003 9:11	36.579	9/01/2003 13:41	4:30:00	470.993	2.444	36.578	9/01/2003 13:37	4:26:40	470.697	2.443

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	
89	YUNKACK 574.20	Y2		9/01/2003 9:11	35.001	11/01/2003 12:57	51:46:40	470.745	2.547		28.006	9/01/2003 13:44	4:33:19	470.497	2.547
90	YUNKACK 948.90	Y3		9/01/2003 9:11	35.001	11/01/2003 12:57	51:46:40	470.666	1.909		23.645	9/01/2003 13:44	4:33:19	470.677	1.909
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	35.001	11/01/2003 12:57	51:46:40	470.659	5.429		21.709	11/01/2003 8:44	47:33:20	470.658	7.953
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	35	11/01/2003 12:57	51:46:40	470.769	2.449		21.708	11/01/2003 8:37	47:26:39	470.74	2.449
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	35	11/01/2003 12:57	51:46:40	469.466	2.555		21.708	11/01/2003 8:37	47:26:39	469.245	2.552
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	35	11/01/2003 12:57	51:46:40	581.05	80.984		21.708	11/01/2003 8:37	47:26:39	467.459	69.594
95	TUCKERGULLY 0.00			9/01/2003 9:11	41.71	11/01/2003 10:47	49:36:39	221.077	0.783		36.533	9/01/2003 12:44	3:33:20	221.054	0.783
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	41.689	11/01/2003 10:21	49:10:00	220.491	2.178		34.484	9/01/2003 12:44	3:33:20	220.491	2.177
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	41.687	11/01/2003 10:44	49:33:20	230.497	1.805		29.501	9/01/2003 12:57	3:46:39	220.402	1.805
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	41.684	11/01/2003 10:41	49:30:00	273.013	2.354		26.28	9/01/2003 12:57	3:46:39	220.377	2.353
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	41.689	11/01/2003 10:41	49:30:00	343.888	2.022		25.793	11/01/2003 6:51	45:40:00	220.341	2.016
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	41.68	11/01/2003 10:30	49:19:59	441.308	1.637		25.793	11/01/2003 6:37	45:26:39	220.213	1.637
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	41.676	11/01/2003 10:30	49:19:59	560.493	1.792		25.791	11/01/2003 7:24	46:13:19	220.151	1.792
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	41.68	11/01/2003 10:37	49:26:39	785.69	2.453		25.792	11/01/2003 6:51	45:40:00	220.402	2.453
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	41.68	11/01/2003 10:37	49:26:39	902.16	2.772		25.791	11/01/2003 7:17	46:06:39	220.232	2.772
104	TUCKERGULLY 5765.40			9/01/2003 9:11	41.68	11/01/2003 10:37	49:26:39	1556.584	2.783		25.791	11/01/2003 7:17	46:06:39	221.084	2.782
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	41.674	11/01/2003 10:37	49:26:39	1783.803	1.301		25.79	11/01/2003 7:30	46:19:59	252.705	1.297
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	41.678	11/01/2003 10:34	49:23:20	1935.69	5.817		25.79	11/01/2003 7:30	46:19:59	288.134	5.647
107	TUCKERTRIB 0.00			9/01/2003 9:11	41.694	11/01/2003 10:27	49:16:40	2.5	0.274		30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	41.693	11/01/2003 10:27	49:16:40	56.681	0.639		30.261	9/01/2003 9:11	0:00:00	2.5	0.616
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	41.689	11/01/2003 10:27	49:16:40	114.368	3.291		27.347	10/01/2003 16:04	30:53:20	15.188	7.319
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	41.679	11/01/2003 10:41	49:30:00	206.061	1.023		25.798	11/01/2003 7:57	46:46:40	39.739	1.269
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	41.682	11/01/2003 10:27	49:16:40	326.142	0.316		25.796	11/01/2003 7:37	46:26:39	50.383	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	41.681	11/01/2003 10:30	49:19:59	415.969	0.652		25.795	11/01/2003 7:11	46:00:00	63.011	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	41.685	11/01/2003 10:37	49:26:39	548.277	0.387		25.798	11/01/2003 6:44	45:33:20	68.998	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	41.68	11/01/2003 10:37	49:26:39	674.792	6.064		25.791	11/01/2003 7:17	46:06:39	95.186	6.064
115	STATIONCK 0.00	S1		9/01/2003 9:11	33.528	11/01/2003 13:21	52:10:00	167.994	0.996		19.987	11/01/2003 9:30	48:19:59	167.732	0.995
116	STATIONCK 684.50	S2		9/01/2003 9:11	33.528	11/01/2003 13:21	52:10:00	445.986	1.148		19.987	11/01/2003 9:30	48:19:59	168.682	1.058
117	STATIONCK 1599.70	S3		9/01/2003 9:11	33.527	11/01/2003 13:21	52:10:00	1150.588	1.16		19.987	11/01/2003 9:30	48:19:59	166.516	1.154
118	STATIONCK 2431.30	S4		9/01/2003 9:11	33.527	11/01/2003 13:21	52:10:00	1806.326	0.944		19.987	11/01/2003 9:30	48:19:59	256.539	0.943
119	STATIONCK 3013.70	S5		9/01/2003 9:11	33.526	11/01/2003 13:21	52:10:00	2317.431	0.631		19.987	11/01/2003 9:30	48:19:59	328.336	0.629
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	33.525	11/01/2003 13:21	52:10:00	2886.566	0.836		19.987	11/01/2003 9:30	48:19:59	426.593	0.825
121	STATIONCK 4481.70	S7		9/01/2003 9:11	33.524	11/01/2003 13:21	52:10:00	3353.357	0.893		19.987	11/01/2003 9:30	48:19:59	535.124	0.892
122	STATIONCK 5140.80	S8		9/01/2003 9:11	33.523	11/01/2003 13:21	52:10:00	3804.18	0.286		19.987	11/01/2003 9:30	48:19:59	655.659	0.285
123	STATIONCK 5918.90	S9		9/01/2003 9:11	33.522	11/01/2003 13:21	52:10:00	4387.51	0.15		19.987	11/01/2003 9:30	48:19:59	813.557	0.149
124	STATIONCK 6575.50	S10		9/01/2003 9:11	33.521	11/01/2003 13:21	52:10:00	4797.653	0.239		19.987	11/01/2003 9:30	48:19:59	911.447	0.096
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	33.52	11/01/2003 13:21	52:10:00	5003.115	0.296		19.987	11/01/2003 9:30	48:19:59	951.454	0.104
126	STATIONCK 6954.40			9/01/2003 9:11	33.52	11/01/2003 13:21	52:10:00	29574.639	0.884		19.987	11/01/2003 9:30	48:19:59	5641.173	0.483
127	STATIONCK 7691.00	S11		9/01/2003 9:11	33.488	11/01/2003 13:21	52:10:00	29711.146	0.862		19.962	11/01/2003 9:30	48:19:59	5650.494	0.498
128	MACHINECK 0.00	M1		9/01/2003 9:11	33.615	9/01/2003 11:44	2:33:20	100.676	0.982		33.615	9/01/2003 11:44	2:33:20	100.035	0.98
129	MACHINECK 726.30	M2		9/01/2003 9:11	28.714	9/01/2003 11:51	2:40:00	99.47	0.97		28.714	9/01/2003 11:51	2:40:00	99.459	0.958
130	MACHINECK 1186.80	M3		9/01/2003 9:11	26.615	9/01/2003 11:57	2:46:39	99.141	1.269		26.615	9/01/2003 11:57	2:46:39	99.105	1.268
131	MACHINECK 1699.10	M4		9/01/2003 9:11	25.979	11/01/2003 14:00	52:49:59	98.658	0.639		22.924	9/01/2003 12:11	3:00:00	98.66	0.639
132	MACHINECK 2214.80	M5		9/01/2003 9:11	25.978	11/01/2003 14:00	52:49:59	98.511	2.051		20.809	9/01/2003 12:04	2:53:19	98.474	2.651
133	MACHINECK 2730.60	M6		9/01/2003 9:11	25.978	11/01/2003 14:00	52:49:59	98.492	1.421		17.122	9/01/2003 12:11	3:00:00	98.493	1.419

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	
134	MACHINECK 3140.90	M7		9/01/2003 9:11	25.978	11/01/2003 14:00	52:49:59	111.681	1.997		16.302	11/01/2003 10:04	48:53:20	98.396	1.997
135	MACHINECK 3611.90	M8		9/01/2003 9:11	25.977	11/01/2003 14:00	52:49:59	160.943	0.836		16.302	11/01/2003 10:04	48:53:20	98.037	0.835
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	25.977	11/01/2003 14:00	52:49:59	260.246	2.743		16.302	11/01/2003 10:11	49:00:00	96.999	2.744
137	MACHINECK 5099.90	M10		9/01/2003 9:11	25.977	11/01/2003 14:00	52:49:59	418.617	2.085		16.302	11/01/2003 10:04	48:53:20	96.675	2.085
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	25.976	11/01/2003 14:00	52:49:59	561.973	0.73		16.302	11/01/2003 9:51	48:40:00	118.085	0.723
139	MACHINECK 6711.00	M12		9/01/2003 9:11	25.975	11/01/2003 14:00	52:49:59	684.904	0.591		16.302	11/01/2003 9:57	48:46:40	155.046	0.59
140	O'NSTATION 0.00			9/01/2003 9:11	34.242	11/01/2003 13:11	52:00:00	35637.125	1.728		20.753	11/01/2003 9:11	48:00:00	5635.286	1.411
141	O'NSTATION 304.10	O2-1		9/01/2003 9:11	34.206	11/01/2003 13:11	52:00:00	35272.789	1.715		20.698	11/01/2003 9:11	48:00:00	5633.192	1.677
142	O'NSTATION 1252.20	O2-2		9/01/2003 9:11	34.077	11/01/2003 13:14	52:03:20	34240.789	5.25		20.525	11/01/2003 9:17	48:06:39	5627.888	5.249
143	O'NSTATION 1924.60	O2-3		9/01/2003 9:11	33.825	11/01/2003 13:17	52:06:39	33736.047	3.137		20.301	11/01/2003 9:24	48:13:19	5625.26	2.777
144	O'NSTATION 2385.50			9/01/2003 9:11	33.597	11/01/2003 13:21	52:10:00	33483.035	3.723		20.084	11/01/2003 9:24	48:13:19	5623.678	2.09
145	O'NSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	33.52	11/01/2003 13:21	52:10:00	33378.238	3.781		19.987	11/01/2003 9:30	48:19:59	5623.006	2.556
146	WURDONGCK 0.00	W1		9/01/2003 9:11	27.313	9/01/2003 12:14	3:03:20	203.685	1.222		27.313	9/01/2003 12:17	3:06:40	203.67	1.222
147	WURDONGCK 616.40	W2		9/01/2003 9:11	22.993	11/01/2003 14:21	53:10:00	203.571	1.2		22.025	9/01/2003 12:24	3:13:20	203.571	1.2
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	22.993	11/01/2003 14:21	53:10:00	203.481	1.218		17.003	9/01/2003 12:37	3:26:39	203.48	1.487
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	22.993	11/01/2003 14:21	53:10:00	203.509	1.402		14.614	11/01/2003 10:11	49:00:00	203.51	1.401
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	22.993	11/01/2003 14:21	53:10:00	303.355	0.992		14.613	11/01/2003 10:17	49:06:39	203.077	0.992
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	22.992	11/01/2003 14:21	53:10:00	730.572	0.462		14.613	11/01/2003 10:17	49:06:39	197.248	0.462
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	22.992	11/01/2003 14:21	53:10:00	1141.392	1.883		14.613	11/01/2003 10:17	49:06:39	234.135	1.882
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	27.35	11/01/2003 13:51	52:40:00	3.5	0.268		24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	27.35	11/01/2003 13:51	52:40:00	50.926	3.426		17.128	11/01/2003 9:30	48:19:59	29.766	6.22
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	27.349	11/01/2003 13:51	52:40:00	139.791	0.14		17.122	11/01/2003 9:51	48:40:00	32.796	0.227
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	27.349	11/01/2003 13:51	52:40:00	233.022	0.443		17.122	11/01/2003 9:51	48:40:00	37.396	0.442
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	27.349	11/01/2003 13:51	52:40:00	294.344	1.359		17.121	11/01/2003 10:04	48:53:20	58.429	1.358
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	27.349	11/01/2003 13:51	52:40:00	356.675	2.993		17.122	11/01/2003 9:37	48:26:39	83.059	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	28.415	11/01/2003 13:41	52:30:00	1.5	0.167		18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	28.415	11/01/2003 13:41	52:30:00	65.633	0.399		17.694	11/01/2003 9:51	48:40:00	48.58	10.305
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	28.415	11/01/2003 13:41	52:30:00	138.228	0.641		17.694	11/01/2003 9:44	48:33:20	44.573	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	28.415	11/01/2003 13:41	52:30:00	250.891	0.519		17.695	11/01/2003 9:51	48:40:00	44.881	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	28.414	11/01/2003 13:41	52:30:00	397.693	1.329		17.694	11/01/2003 9:37	48:26:39	77.411	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	28.414	11/01/2003 13:41	52:30:00	22901.572	7.057		17.694	11/01/2003 9:37	48:26:39	5048.272	3.189
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	23.253	11/01/2003 13:51	52:40:00	22899.691	9.38		15.116	11/01/2003 9:57	48:46:40	5047.597	4.268
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	21.396	11/01/2003 14:14	53:03:20	22892.77	4.437		14.143	11/01/2003 9:57	48:46:40	5047.305	2.132
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	20.543	11/01/2003 14:27	53:16:40	22851.025	3.211		13.078	11/01/2003 10:24	49:13:19	5046.478	2.588
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	20.453	11/01/2003 14:27	53:16:40	22808.359	1.784		12.9	11/01/2003 10:24	49:13:19	5046.254	0.988
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	20.453	11/01/2003 14:27	53:16:40	2410.384	0.474		12.9	11/01/2003 10:24	49:13:19	763.175	0.473
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	20.454	11/01/2003 14:27	53:16:40	2352.891	0.691		12.9	11/01/2003 10:24	49:13:19	757.456	0.691
171	O'LAND01 0.00			9/01/2003 9:11	20.453	11/01/2003 14:27	53:16:40	25125.469	2.99		12.9	11/01/2003 10:24	49:13:19	4700.432	1.439
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	19.696	11/01/2003 14:34	53:23:20	25114.051	3.215		12.484	11/01/2003 10:30	49:19:59	4700.263	1.552
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	19.149	11/01/2003 14:37	53:26:39	25092.578	2.622		11.948	11/01/2003 10:37	49:26:39	4700.027	1.446
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	18.942	11/01/2003 14:37	53:26:39	25078.67	2.257		11.677	11/01/2003 10:37	49:26:39	4699.766	1.183
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	18.636	11/01/2003 14:41	53:30:00	25049.902	1.93		11.39	11/01/2003 10:44	49:33:20	4699.176	0.927
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	18.407	11/01/2003 14:41	53:30:00	25022.219	1.756		11.233	11/01/2003 10:44	49:33:20	4698.771	0.802
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	17.787	11/01/2003 14:47	53:36:39	25002.199	3.224		10.862	11/01/2003 10:51	49:40:00	4698.552	2.248
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	17.787	11/01/2003 14:47	53:36:39	55.289	0.305		10.862	11/01/2003 10:51	49:40:00	55.264	0.305

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF Failure					48hr - PMF No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
179	CATTLECK 743.60	CC2		9/01/2003 9:11	17.787	11/01/2003 14:47	53:36:39	145.861	0.859	10.862	11/01/2003 10:51	49:40:00	54.138	0.859
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	17.787	11/01/2003 14:47	53:36:39	261.234	0.765	10.862	11/01/2003 10:51	49:40:00	51.984	0.764
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	17.787	11/01/2003 14:47	53:36:39	387.659	0.172	10.862	11/01/2003 10:51	49:40:00	69.003	0.172
182	CATTLECK 1994.43			9/01/2003 9:11	17.787	11/01/2003 14:47	53:36:39	24922.479	2.19	10.862	11/01/2003 10:51	49:40:00	4699.386	0.91
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	17.426	11/01/2003 14:47	53:36:39	24920.535	3.216	10.702	11/01/2003 10:51	49:40:00	4699.39	1.898
184	CATTLECK 2335.00			9/01/2003 9:11	16.982	11/01/2003 14:47	53:36:39	24916.98	3.424	10.522	11/01/2003 10:51	49:40:00	4699.398	1.959
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	16.989	11/01/2003 14:47	53:36:39	27011.613	1.804	10.689	11/01/2003 10:51	49:40:00	7105.937	1.802
186	STHTREES 851.80	ST2		9/01/2003 9:11	16.222	11/01/2003 14:57	53:46:40	26890.936	1.639	9.645	11/01/2003 11:11	50:00:00	7104.008	1.037
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	15.971	11/01/2003 15:00	53:49:59	26794.246	1.66	9.368	11/01/2003 11:17	50:06:39	7102.139	1.246
188	STHTREES 2361.30	ST4		9/01/2003 9:11	15.753	11/01/2003 15:04	53:53:20	26702.191	1.478	9.147	11/01/2003 11:24	50:13:19	7100.167	0.869
189	STHTREES 2829.50	ST5		9/01/2003 9:11	15.704	11/01/2003 15:04	53:53:20	26645.797	1.085	9.073	11/01/2003 11:24	50:13:19	7098.878	0.69
190	STHTREES 3773.50	ST6		9/01/2003 9:11	15.518	11/01/2003 15:04	53:53:20	26559.055	1.272	8.931	11/01/2003 11:24	50:13:19	7096.747	0.725
191	STHTREES 4171.60	ST7		9/01/2003 9:11	15.352	11/01/2003 15:04	53:53:20	26539.609	1.737	8.849	11/01/2003 11:30	50:19:59	7096.243	0.899
192	STHTREES 4595.40	ST8		9/01/2003 9:11	15.048	11/01/2003 15:07	53:56:39	26526.193	2.347	8.689	11/01/2003 11:30	50:19:59	7095.889	1.293
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	14.716	11/01/2003 15:07	53:56:39	26510.443	2.3	8.458	11/01/2003 11:30	50:19:59	7095.565	1.353
194	STHTREES 5122.39			9/01/2003 9:11	14.716	11/01/2003 15:07	53:56:39	26472.555	2.284	8.458	11/01/2003 11:30	50:19:59	7096.808	1.353
195	STHTREES 5493.40	ST9		9/01/2003 9:11	14.324	11/01/2003 15:11	54:00:00	26466.154	2.728	8.281	11/01/2003 11:37	50:26:39	7096.649	1.441
196	STHTREES 6390.90	ST10		9/01/2003 9:11	12.354	11/01/2003 15:14	54:03:20	26456.305	5.718	7.142	11/01/2003 11:44	50:33:20	7096.387	3.721
197	STHTREES 7658.80	ST11		9/01/2003 9:11	10.423	11/01/2003 15:34	54:23:20	26413.029	1.535	5.847	11/01/2003 12:11	51:00:00	7095.031	0.75
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	10.164	11/01/2003 15:37	54:26:39	26381.596	1.643	5.718	11/01/2003 12:17	51:06:39	7094.038	0.837
199	STHTREES 8251.05			9/01/2003 9:11	10.164	11/01/2003 15:37	54:26:39	26312.385	1.632	5.718	11/01/2003 12:17	51:06:39	7093.395	0.837
200	STHTREES 9287.10	ST12		9/01/2003 9:11	9.521	11/01/2003 15:41	54:30:00	26288.193	1.947	5.396	11/01/2003 12:24	51:13:19	7092.479	1.029
201	STHTREES 11258.10	ST13		9/01/2003 9:11	8.139	11/01/2003 15:47	54:36:39	26249.705	1.693	4.68	11/01/2003 12:37	51:26:39	7090.784	0.899
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.968	11/01/2003 15:54	54:43:19	26222.637	1.703	4.101	11/01/2003 12:51	51:40:00	7089.709	0.958
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.707	11/01/2003 16:00	54:49:59	26204.453	1.23	3.583	11/01/2003 13:04	51:53:20	7087.994	0.581
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	26200.445	4.867	2.42	9/01/2003 9:11	0:00:00	7087.225	1.316
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	14.717	11/01/2003 15:07	53:56:39	88.46	1.533	10.371	9/01/2003 11:44	2:33:20	87.804	1.525
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	14.717	11/01/2003 15:07	53:56:39	87.996	1.683	8.458	11/01/2003 11:30	50:19:59	87.99	3.157
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	14.716	11/01/2003 15:07	53:56:39	87.738	0.319	8.458	11/01/2003 11:30	50:19:59	87.502	0.319
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	14.716	11/01/2003 15:07	53:56:39	137.956	0.177	8.458	11/01/2003 11:30	50:19:59	86.798	0.177
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	14.716	11/01/2003 15:07	53:56:39	205.435	0.092	8.458	11/01/2003 11:30	50:19:59	85.466	0.091
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	12.456	9/01/2003 11:47	2:36:40	73.109	0.766	12.456	9/01/2003 11:44	2:33:20	72.659	0.766
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	10.165	11/01/2003 15:37	54:26:39	72.02	3.03	5.725	11/01/2003 12:24	51:13:19	72.021	3.03
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	10.165	11/01/2003 15:37	54:26:39	72.216	0.114	5.718	11/01/2003 12:17	51:06:39	72.222	0.115
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	10.165	11/01/2003 15:37	54:26:39	195.506	0.043	5.718	11/01/2003 12:17	51:06:39	72.532	0.044
214	ELEVENMILECK 3887.00			9/01/2003 9:11	10.164	11/01/2003 15:37	54:26:39	275.136	0.048	5.718	11/01/2003 12:17	51:06:39	76.161	0.043
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	35.387	11/01/2003 12:51	51:40:00	89.56	1.957	22.388	11/01/2003 8:24	47:13:19	88.739	1.957
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	35.387	11/01/2003 12:51	51:40:00	307.844	1.98	22.388	11/01/2003 8:24	47:13:19	88.36	1.98
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	35.387	11/01/2003 12:51	51:40:00	1112.518	0.179	22.388	11/01/2003 8:24	47:13:19	291.064	0.178
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	35.387	11/01/2003 12:51	51:40:00	1203.37	0.168	22.388	11/01/2003 8:24	47:13:19	318.149	0.167
219	SPELLWAY 0.00			9/01/2003 9:11	53.762	11/01/2003 5:51	44:40:00	16355.983	0.949	53.762	11/01/2003 5:51	44:40:00	15690.91	0.547
220	SPELLWAY 300.00			9/01/2003 9:11	47.622	11/01/2003 10:00	48:49:59	15687.579	0.62	28.384	11/01/2003 6:51	45:40:00	15687.219	0.62

# **AWOONGA DAM**

## **BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**

### **VOLUME II**




#### **SECTION 5.0            DAM BREAK STUDY – FSL 55**

- Photo Mosaic – Sunny Day Failure – Maximum Flood Levels
- Photo Mosaic – PMF Fail/No Fail – Maximum Flood Levels
- Table 5.1 – PMF – No failure – Maximum Water Levels – 6hr, 12hr, 24hr, 48hr
- Table 5.2 – PMF – Failure – Maximum Water Levels – 6hr, 12hr, 24hr, 48hr
- Table 5.3 – Sunny Day Failure – Summary of Results
- Table 5.4 – 6hr PMF Failure & No Failure – Summary of Results
- Table 5.5 – 12hr PMF Failure & No Failure – Summary of Results
- Table 5.6 – 24hr PMF Failure & No failure – Summary of Results
- Table 5.7 – 48hr PMF Failure & No failure – Summary of Results

**NOTES:**

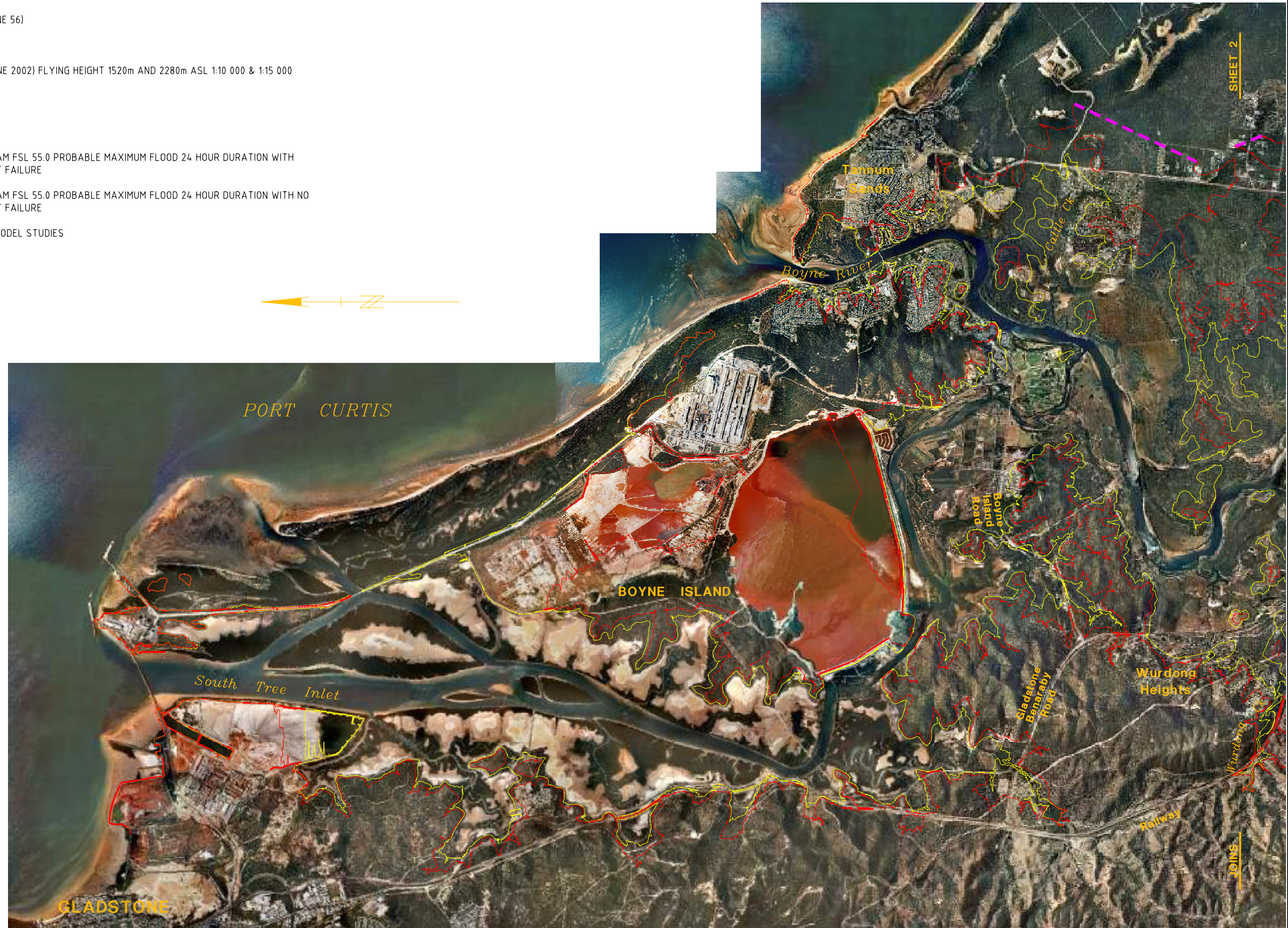
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2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000

**LEGEND:**

-  AWOONGA DAM FSL 55.0 PROBABLE MAXIMUM FLOOD 24 HOUR DURATION WITH EMBANKMENT FAILURE
-  AWOONGA DAM FSL 55.0 PROBABLE MAXIMUM FLOOD 24 HOUR DURATION WITH NO EMBANKMENT FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

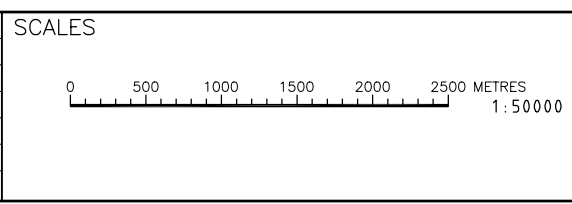
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REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220480	SHEET 2 OF 2



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APPROVED			
R.AYRE			
PROJECT MANAGER			
WATER STUDIES			

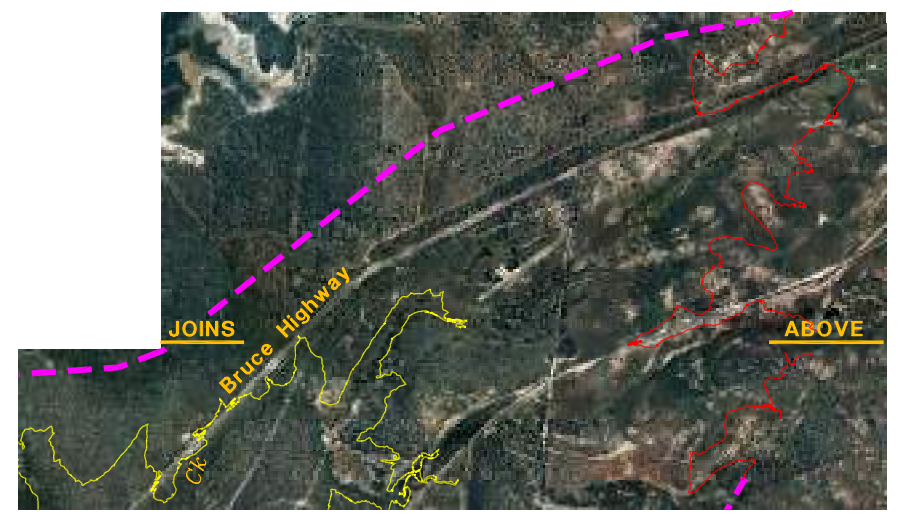
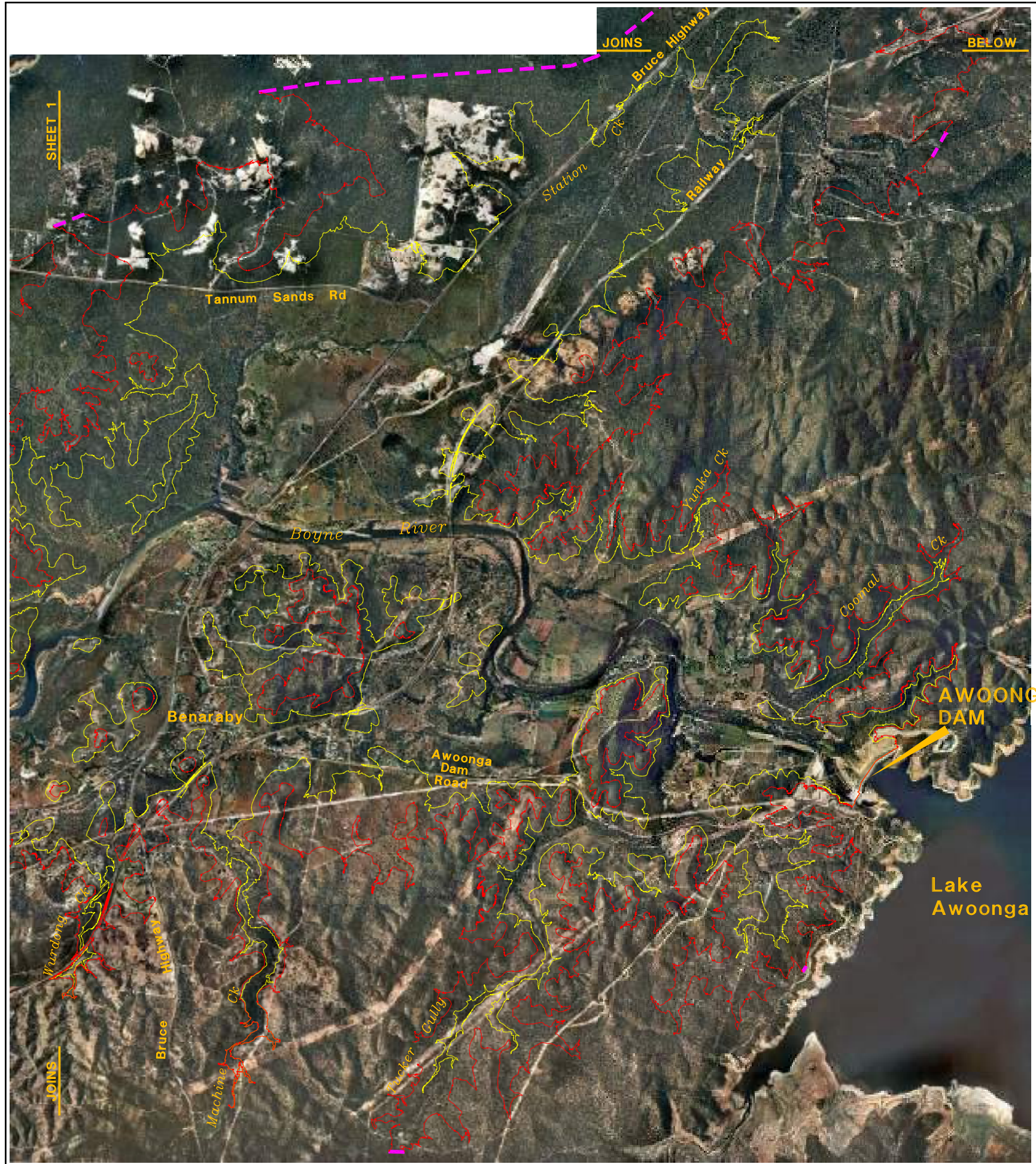


**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**PROBABLE MAXIMUM FLOOD - FSL 55.0**  
**MAXIMUM FLOOD LEVELS**




SH 1 OF 2

CONTRACT NUMBER	
DRAWING NUMBER	<b>220479</b>
DATE	OCT 2003

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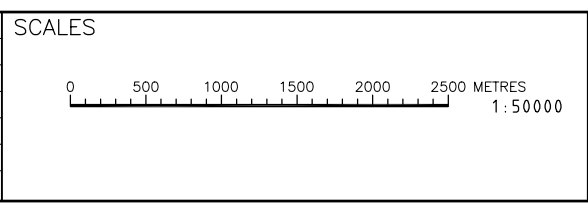
**LEGEND:**

-  AWOONGA DAM FSL 55.0 PROBABLE MAXIMUM FLOOD 24 HOUR DURATION WITH EMBANKMENT FAILURE
-  AWOONGA DAM FSL 55.0 PROBABLE MAXIMUM FLOOD 24 HOUR DURATION WITH NO EMBANKMENT FAILURE
-  EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

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REVISION	DATE	REMARKS	CKD	PSD	REFERENCE DRAWINGS



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APPROVED			
R.AYRE			
PROJECT MANAGER			
WATER STUDIES			



**AWOONGA DAM**  
 BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY  
 PHOTO MOSAIC  
 PROBABLE MAXIMUM FLOOD - FSL 55.0  
 MAXIMUM FLOOD LEVELS



CONTRACT NUMBER	
DRAWING NUMBER	<b>220480</b>
DATE	OCT 2003



**NOTES:**

1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000

**LEGEND:**

-  AWOONGA DAM FSL 55.0 SUNNY DAY FAILURE
-  EXTENT OF MODEL STUDIES



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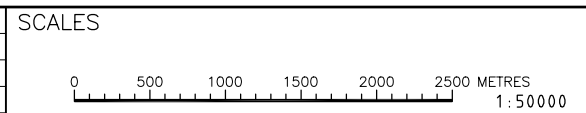
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REFERENCE	DRAWINGS
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220482	SHEET 2 OF 2



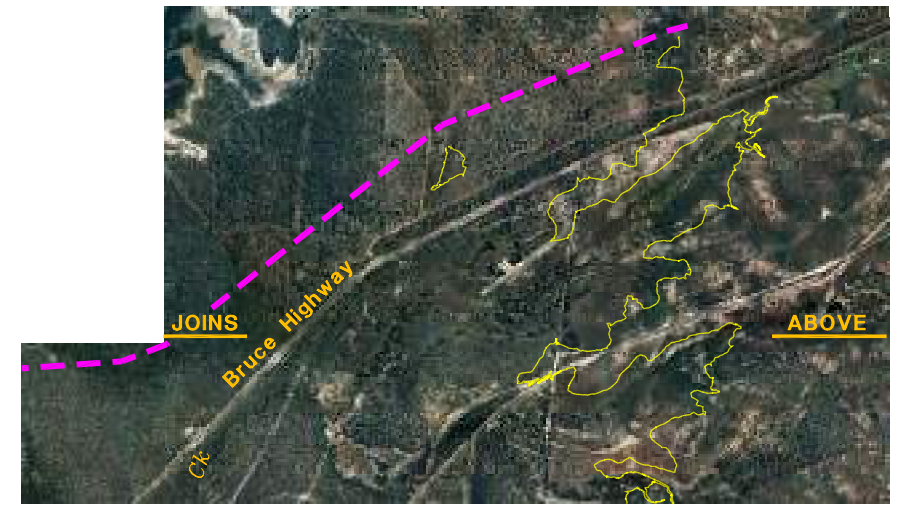
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R.AYRE			
PROJECT MANAGER WATER STUDIES			



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**SUNNY DAY FAILURE - FSL 55.0**  
**MAXIMUM FLOOD LEVELS**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220481</b>
DATE	OCT 2003

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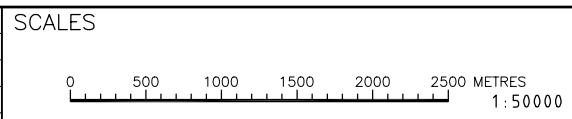
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- AWOONGA DAM FSL 55.0 SUNNY DAY FAILURE
- EXTENT OF MODEL STUDIES

**KEY TO SHEETS:**

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REVISION	DATE	REMARKS	CKD	PSD	REFERENCE DRAWINGS
					220481 SHEET 1 OF 2



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APPROVED <b>R.AYRE</b> PROJECT MANAGER WATER STUDIES	



**AWOONGA DAM**  
 BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY  
 PHOTO MOSAIC  
 SUNNY DAY FAILURE - FSL 55.0  
 MAXIMUM FLOOD LEVELS

CONTRACT NUMBER	
DRAWING NUMBER	<b>220482</b>
DATE	OCT 2003

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF No Failure - Max Water Levels - 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No	12hr - PMF No	24hr - PMF No	48hr - PMF No
				Failure	Failure	Failure	Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00			56.342	57.836	58.229	57.584
2	BOYNERIVER 100.00			56.337	57.828	58.218	57.575
3	BOYNERIVER 100.00			56.337	57.828	58.218	57.575
4	BOYNERIVER 150.00			56.337	57.827	58.217	57.575
5	BOYNERIVER 350.00			26.76	29.441	30.337	29.168
6	BOYNERIVER 420.00			26.76	29.438	30.333	29.166
7	BOYNERIVER 420.00			26.76	29.438	30.333	29.166
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	26.251	28.923	29.833	28.673
9	BOYNERIVER 1383.80	B21.15		25.453	27.994	28.882	27.798
10	BOYNERIVER 1985.90	B20.6		24.424	26.837	27.713	26.71
11	BOYNERIVER 2182.33		Tucker Gully	24.23	26.612	27.486	26.5
12	BOYNERIVER 2182.33			24.23	26.612	27.486	26.5
13	BOYNERIVER 2462.80	B20.1		23.745	26.078	26.949	25.997
14	BOYNERIVER 3120.26		Coomal Ck	23.319	25.638	26.522	25.583
15	BOYNERIVER 3120.26			23.319	25.638	26.522	25.583
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	23.209	25.522	26.407	25.472
17	BOYNERIVER 3976.40	B18.3		22.582	24.815	25.693	24.805
18	BOYNERIVER 4740.10	B17.6		21.232	23.378	24.254	23.447
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	20.785	22.941	23.832	23.035
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	20.785	22.941	23.832	23.035
21	BOYNERIVER 5934.10	B16.7		20.476	22.675	23.585	22.781
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	19.968	22.257	23.197	22.385
23	BOYNERIVER 6676.80	B16.0		19.968	22.257	23.197	22.385
24	BOYNERIVER 7293.40	B15.5		19.444	21.753	22.712	21.893
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	18.96	21.284	22.25	21.435
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	18.96	21.284	22.25	21.435
27	BOYNERIVER 8522.40	B14.35		18.825	21.174	22.149	21.327
28	BOYNERIVER 8856.20	B14.0		18.794	21.152	22.13	21.306
29	BOYNERIVER 9247.40	B13.6		18.653	21.016	21.994	21.171
30	BOYNERIVER 9679.30	B13.2		18.467	20.831	21.81	20.988
31	BOYNERIVER 10080.40	B12.8		18.38	20.771	21.759	20.93
32	BOYNERIVER 10401.00			18.25	20.64	21.628	20.8
33	BOYNERIVER 10402.80			18.252	20.641	21.629	20.803
34	BOYNERIVER 10412.80	B12.5		18.257	20.648	21.644	20.816
35	BOYNERIVER 10414.00			18.247	20.637	21.623	20.797
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	18.194	20.592	21.582	20.752
37	BOYNERIVER 10832.90		Station Ck	18.096	20.496	21.488	20.658
38	BOYNERIVER 10832.90			18.096	20.496	21.488	20.658
39	BOYNERIVER 11254.50	B11.6		17.321	19.549	20.465	19.702
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	16.096	18.106	18.932	18.252
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	16.096	18.106	18.932	18.252
42	BOYNERIVER 12303.00			15.591	17.534	18.34	17.68
43	BOYNERIVER 12303.00		Boyne Trib1	15.591	17.534	18.34	17.68
44	BOYNERIVER 12455.40	B10.5		15.418	17.325	18.123	17.471
45	BOYNERIVER 12785.40		Machine Ck	14.965	16.786	17.571	16.932
46	BOYNERIVER 12785.40			14.965	16.786	17.571	16.932
47	BOYNERIVER 12874.90	B10.2		14.813	16.601	17.379	16.746
48	BOYNERIVER 13251.30	B9.8		14.587	16.322	17.104	16.469
49	BOYNERIVER 13865.90	B9.1		13.758	15.335	16.038	15.478
50	BOYNERIVER 14304.56		Wurdong Ck	13.416	14.954	15.585	15.096
51	BOYNERIVER 14304.56			13.416	14.954	15.585	15.096
52	BOYNERIVER 14472.20	B8.5		13.323	14.847	15.471	14.987
53	BOYNERIVER 14964.20	B8.0		12.975	14.476	15.095	14.615
54	BOYNERIVER 15341.20	B7.55		12.37	13.795	14.386	13.928
55	BOYNERIVER 15741.50	B7.2		11.947	13.364	13.961	13.499
56	BOYNERIVER 16062.90		O'L Boyne D/S	11.794	13.201	13.793	13.335
57	BOYNERIVER 16062.90			11.794	13.201	13.793	13.335
58	BOYNERIVER 16145.40	B6.8		11.76	13.168	13.76	13.302
59	BOYNERIVER 16727.90	B6.2		11.213	12.553	13.116	12.682
60	BOYNERIVER 17358.60	B5.55		10.664	11.95	12.492	12.077
61	BOYNERIVER 17722.19		South Trees	9.767	10.931	11.429	11.052
62	BOYNERIVER 17722.19			9.767	10.931	11.429	11.052
63	BOYNERIVER 17874.50			9.645	10.833	11.341	10.956
64	BOYNERIVER 18184.66		Cattle Ck	9.557	10.775	11.291	10.899
65	BOYNERIVER 18184.66			9.557	10.775	11.291	10.899
66	BOYNERIVER 18476.20	B4.5		9.303	10.483	10.981	10.604
67	BOYNERIVER 18884.20	B4.05		8.7	9.758	10.202	9.865
68	BOYNERIVER 19282.40	B3.65		8.56	9.629	10.078	9.738
69	BOYNERIVER 19869.50	B3.15		8.151	9.206	9.655	9.315
70	BOYNERIVER 20263.70	B2.75		7.643	8.622	9.045	8.724

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF No Failure - Max Water Levels - 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No	12hr - PMF No	24hr - PMF No	48hr - PMF No
				Failure	Failure	Failure	Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
71	BOYNERIVER 20684.60	B2.45		7.173	8.13	8.553	8.232
72	BOYNERIVER 20866.30	B2.25		7.04	7.991	8.41	8.092
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	6.378	7.253	7.646	7.347
74	BOYNERIVER 21471.70	B1.65		5.614	6.263	6.566	6.335
75	BOYNERIVER 21861.20	B1.2		5.022	5.521	5.771	5.581
76	BOYNERIVER 22251.30	B0.9		4.099	4.272	4.439	4.312
77	BOYNERIVER 22636.00	B0.5		2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1		38.018	38.051	38.064	37.74
79	COOMALCK 398.20	C2		33.341	33.375	33.385	33.058
80	COOMALCK 794.20	C3		29.867	29.675	31.69	29.377
81	COOMALCK 1209.50	C4		26.98	26.612	28.327	26.311
82	COOMALCK 1813.30	C5		23.43	25.638	26.522	25.583
83	COOMALCK 2352.80	C6		23.322	25.639	26.522	25.582
84	COOMALCK 3112.20	C7		23.32	25.638	26.522	25.583
85	COOMALCK 3751.30	C8		23.32	25.638	26.522	25.583
86	COOMALCK 4222.50	C9		23.319	25.638	26.522	25.583
87	COOMALCK 4305.00			23.319	25.638	26.522	25.583
88	YUNKACK 0.00	Y1		34.489	34.469	34.713	36.578
89	YUNKACK 574.20	Y2		26.859	26.836	26.994	28.006
90	YUNKACK 948.90	Y3		22.26	22.258	23.197	23.645
91	YUNKACK 1253.10	Y4		19.979	22.258	23.197	22.386
92	YUNKACK 1835.50	Y5		19.977	22.257	23.197	22.385
93	YUNKACK 2434.60	Y6		19.97	22.257	23.197	22.385
94	YUNKACK 2763.00	Y7		19.968	22.257	23.197	22.385
95	TUCKERGULLY 0.00			36.642	36.659	36.799	36.533
96	TUCKERGULLY 1066.80	TU-1		34.565	34.578	34.682	34.484
97	TUCKERGULLY 1965.80	TU-2		29.598	29.607	29.736	29.501
98	TUCKERGULLY 2491.10	TU-3		26.377	26.613	27.487	26.513
99	TUCKERGULLY 3217.50	TU-4		24.23	26.612	27.485	26.5
100	TUCKERGULLY 3966.50	TU-5		24.237	26.612	27.486	26.5
101	TUCKERGULLY 4522.10	TU-6		24.229	26.612	27.486	26.5
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	24.238	26.612	27.486	26.5
103	TUCKERGULLY 5765.40		Tucker Trib	24.228	26.612	27.485	26.5
104	TUCKERGULLY 5765.40			24.228	26.612	27.485	26.5
105	TUCKERGULLY 6350.10	TU-8		24.229	26.612	27.486	26.5
106	TUCKERGULLY 6669.00	TU-9		24.23	26.612	27.486	26.5
107	TUCKERTRIB 0.00			30.815	30.815	30.815	30.815
108	TUCKERTRIB 206.20	T1-1		30.261	30.261	30.261	30.261
109	TUCKERTRIB 730.40	T1-2		27.265	27.306	27.488	27.265
110	TUCKERTRIB 1416.70	T1-3		24.262	26.613	27.487	26.5
111	TUCKERTRIB 1944.80	T1-4		24.248	26.612	27.486	26.501
112	TUCKERTRIB 2331.50	T1-5		24.241	26.613	27.486	26.502
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	24.253	26.612	27.487	26.501
114	TUCKERTRIB 3377.00			24.228	26.612	27.485	26.5
115	STATIONCK 0.00	S1		18.118	20.524	21.517	20.684
116	STATIONCK 684.50	S2		18.117	20.524	21.517	20.684
117	STATIONCK 1599.70	S3		18.117	20.524	21.516	20.684
118	STATIONCK 2431.30	S4		18.117	20.523	21.516	20.684
119	STATIONCK 3013.70	S5		18.117	20.523	21.516	20.684
120	STATIONCK 3734.90	S6	Bruce H'way	18.116	20.523	21.516	20.684
121	STATIONCK 4481.70	S7		18.116	20.523	21.516	20.684
122	STATIONCK 5140.80	S8		18.116	20.523	21.516	20.684
123	STATIONCK 5918.90	S9		18.116	20.523	21.516	20.684
124	STATIONCK 6575.50	S10		18.116	20.523	21.516	20.684
125	STATIONCK 6954.40		O'L Station D/S	18.116	20.522	21.516	20.684
126	STATIONCK 6954.40			18.116	20.522	21.516	20.684
127	STATIONCK 7691.00	S11		18.096	20.496	21.488	20.658
128	MACHINECK 0.00	M1		34.181	34.203	34.288	33.615
129	MACHINECK 726.30	M2		29.298	29.313	29.39	28.714
130	MACHINECK 1186.80	M3		27.084	27.093	27.141	26.615
131	MACHINECK 1699.10	M4		23.586	23.598	23.693	22.924
132	MACHINECK 2214.80	M5		21.151	21.158	21.217	20.809
133	MACHINECK 2730.60	M6		17.541	17.549	17.611	17.122
134	MACHINECK 3140.90	M7		15.53	16.787	17.571	16.932
135	MACHINECK 3611.90	M8		14.965	16.786	17.571	16.932
136	MACHINECK 4246.80	M9	Road/Rail X-ing	14.965	16.786	17.571	16.932
137	MACHINECK 5099.90	M10		14.965	16.786	17.571	16.932
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	14.965	16.786	17.57	16.932
139	MACHINECK 6711.00	M12		14.965	16.786	17.571	16.932
140	O'LSATION 0.00			18.96	21.284	22.25	21.435
141	O'LSATION 304.10	O2-1		18.901	21.23	22.198	21.381
142	O'LSATION 1252.20	O2-2		18.704	21.059	22.036	21.213

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF No Failure - Max Water Levels - 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No	12hr - PMF No	24hr - PMF No	48hr - PMF No
				Failure	Failure	Failure	Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
143	O'NSTATION 1924.60	O2-3		18.457	20.834	21.817	20.992
144	O'NSTATION 2385.50			18.224	20.618	21.606	20.778
145	O'NSTATION 2588.00	O2-4	Bruce H'way	18.116	20.522	21.516	20.684
146	WURDONGCK 0.00	W1		26.604	26.598	26.761	27.313
147	WURDONGCK 616.40	W2		21.383	21.39	21.557	22.025
148	WURDONGCK 1311.60	W3		16.266	16.239	16.472	17.003
149	WURDONGCK 1752.90	W4		13.748	14.954	15.585	15.098
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	13.417	14.954	15.585	15.096
151	WURDONGCK 3446.50	W6		13.417	14.954	15.585	15.096
152	WURDONGCK 4664.00	W7		13.416	14.954	15.585	15.096
153	BOYNETRIB1 0.00	T2-1		24.036	24.036	24.036	24.036
154	BOYNETRIB1 573.10	T2-2		16.243	17.535	18.339	17.69
155	BOYNETRIB1 1368.30	T2-3		15.592	17.534	18.34	17.68
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	15.592	17.534	18.34	17.679
157	BOYNETRIB1 2194.80	T2-5		15.592	17.534	18.34	17.68
158	BOYNETRIB1 2663.00	T2-6		15.591	17.534	18.34	17.68
159	BOYNETRIB2 0.00	T3-1		18.325	18.325	18.932	18.325
160	BOYNETRIB2 381.20	T3-2		16.111	18.107	18.932	18.252
161	BOYNETRIB2 713.60	T3-3		16.097	18.106	18.932	18.252
162	BOYNETRIB2 1247.10	T3-4		16.096	18.106	18.932	18.252
163	BOYNETRIB2 1804.00	T3-5		16.096	18.106	18.932	18.252
164	O'LANDBOYNE 0.00			16.096	18.106	18.932	18.252
165	O'LANDBOYNE 462.10	O3-1		13.877	15.433	16.058	15.554
166	O'LANDBOYNE 843.90	O3-2		12.986	14.445	15.022	14.568
167	O'LANDBOYNE 1492.50	O3-3		11.958	13.377	13.962	13.509
168	O'LANDBOYNE 1924.31		O'Land01 U/S	11.794	13.201	13.793	13.335
169	O'LANDBOYNE 1924.31			11.794	13.201	13.793	13.335
170	O'LANDBOYNE 2032.00	O3-4		11.794	13.201	13.793	13.335
171	O'LAND01 0.00			11.794	13.201	13.793	13.335
172	O'LAND01 415.30	O4-01		11.441	12.768	13.331	12.897
173	O'LAND01 1018.80	O4-02		10.903	12.233	12.802	12.365
174	O'LAND01 1360.20	O4-03		10.576	11.971	12.558	12.109
175	O'LAND01 1988.30	O4-04		10.253	11.688	12.284	11.83
176	O'LAND01 2586.50	O4-05		10.096	11.53	12.124	11.672
177	O'LAND01 3091.00	O4-06		9.784	11.145	11.722	11.283
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9.784	11.145	11.722	11.283
179	CATTLECK 743.60	CC2		9.784	11.145	11.722	11.283
180	CATTLECK 1293.10	CC3		9.784	11.145	11.722	11.283
181	CATTLECK 1994.43		O'Land 01 D/S	9.784	11.145	11.722	11.283
182	CATTLECK 1994.43			9.784	11.145	11.722	11.283
183	CATTLECK 2124.80	CC4		9.678	10.971	11.522	11.103
184	CATTLECK 2335.00			9.557	10.775	11.291	10.899
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9.767	10.931	11.429	11.052
186	STHTREES 851.80	ST2		8.587	9.907	10.456	10.049
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	8.287	9.633	10.191	9.78
188	STHTREES 2361.30	ST4		8.048	9.414	9.976	9.563
189	STHTREES 2829.50	ST5		7.969	9.341	9.905	9.491
190	STHTREES 3773.50	ST6		7.826	9.198	9.76	9.348
191	STHTREES 4171.60	ST7		7.751	9.114	9.671	9.263
192	STHTREES 4595.40	ST8		7.607	8.949	9.498	9.097
193	STHTREES 5122.39		Ten Mile Ck	7.4	8.712	9.249	8.858
194	STHTREES 5122.39			7.4	8.712	9.249	8.858
195	STHTREES 5493.40	ST9		7.249	8.528	9.052	8.671
196	STHTREES 6390.90	ST10		6.235	7.356	7.824	7.486
197	STHTREES 7658.80	ST11		5.046	6.023	6.42	6.14
198	STHTREES 8251.05		Eleven Mile Ck	4.937	5.89	6.277	6.005
199	STHTREES 8251.05			4.937	5.89	6.277	6.005
200	STHTREES 9287.10	ST12		4.664	5.555	5.918	5.664
201	STHTREES 11258.10	ST13		4.051	4.812	5.116	4.904
202	STHTREES 12688.10	ST14		3.571	4.208	4.458	4.284
203	STHTREES 14444.90	ST15		3.172	3.668	3.87	3.73
204	STHTREES 17478.00	ST16		2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	10.472	10.477	10.602	10.371
206	TENMILECK 510.20	T4-2		7.4	8.712	9.25	8.858
207	TENMILECK 1040.50	T4-3		7.4	8.712	9.25	8.858
208	TENMILECK 1753.90	T4-4		7.4	8.712	9.25	8.858
209	TENMILECK 2298.00	T4-5		7.4	8.712	9.249	8.858
210	ELEVENMILECK 0.00	T5-1		13.072	13.083	13.129	12.456
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	5.735	5.892	6.29	6.005
212	ELEVENMILECK 1811.40	T5-3		4.937	5.89	6.277	6.005
213	ELEVENMILECK 3118.20	T5-4		4.937	5.89	6.277	6.005
214	ELEVENMILECK 3887.00			4.937	5.89	6.277	6.005

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL55

PMF No Failure - Max Water Levels - 6hr, 12hr, 24hr &amp; 48hr

No.	River/Branch Name	Cross Section ID	Location	6hr - PMF No Failure	12hr - PMF No Failure	24hr - PMF No Failure	48hr - PMF No Failure
				Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)
215	LITTLEOAKYCK 0.00	O1-1A		20.789	22.942	23.832	23.035
216	LITTLEOAKYCK 670.00	O1-2A		20.788	22.942	23.832	23.035
217	LITTLEOAKYCK 1834.00	O1-3A		20.785	22.941	23.832	23.035
218	LITTLEOAKYCK 1958.00			20.785	22.941	23.832	23.035
219	SPILLWAY 0.00			56.337	57.828	58.218	57.575
220	SPILLWAY 300.00			26.76	29.438	30.333	29.166

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00			54.926	56.344	57.841	58.233	57.586
2	BOYNERIVER 100.00			54.934	56.339	57.833	58.222	57.577
3	BOYNERIVER 100.00			54.934	56.339	57.833	58.222	57.577
4	BOYNERIVER 150.00			54.942	56.339	57.832	58.221	57.577
5	BOYNERIVER 350.00			47.353	50.861	50.619	51.018	50.773
6	BOYNERIVER 420.00			47.473	49.6	50.711	51.145	50.864
7	BOYNERIVER 420.00			47.473	49.6	50.711	51.145	50.864
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	47.314	49.22	50.662	51.093	50.779
9	BOYNERIVER 1383.80	B21.15		44.538	46.562	47.829	48.246	47.949
10	BOYNERIVER 1985.90	B20.6		41.752	43.589	44.706	45.11	44.84
11	BOYNERIVER 2182.33		Tucker Gully	41.419	43.285	44.394	44.785	44.518
12	BOYNERIVER 2182.33			41.419	43.285	44.394	44.785	44.518
13	BOYNERIVER 2462.80	B20.1		40.192	41.943	43.126	43.499	43.242
14	BOYNERIVER 3120.26		Coomal Ck	39.758	41.538	42.832	43.24	42.969
15	BOYNERIVER 3120.26			39.758	41.538	42.832	43.24	42.969
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	39.56	41.372	42.647	43.061	42.791
17	BOYNERIVER 3976.40	B18.3		37.692	39.481	40.785	41.296	40.995
18	BOYNERIVER 4740.10	B17.6		34.418	36.636	38.14	38.575	38.41
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	34.147	36.43	37.93	38.426	38.269
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	34.147	36.43	37.93	38.426	38.269
21	BOYNERIVER 5934.10	B16.7		34.037	36.356	37.886	38.382	38.225
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	33.719	36.058	37.593	38.1	37.942
23	BOYNERIVER 6676.80	B16.0		33.719	36.058	37.593	38.1	37.942
24	BOYNERIVER 7293.40	B15.5		33.343	35.719	37.273	37.781	37.623
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	32.875	35.302	36.863	37.374	37.22
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	32.875	35.302	36.863	37.374	37.22
27	BOYNERIVER 8522.40	B14.35		32.812	35.246	36.806	37.32	37.165
28	BOYNERIVER 8856.20	B14.0		32.802	35.238	36.799	37.313	37.158
29	BOYNERIVER 9247.40	B13.6		32.616	35.054	36.606	37.117	36.963
30	BOYNERIVER 9679.30	B13.2		32.409	34.834	36.38	36.89	36.738
31	BOYNERIVER 10080.40	B12.8		32.44	34.882	36.44	36.953	36.8
32	BOYNERIVER 10401.00			32.263	34.678	36.22	36.731	36.578
33	BOYNERIVER 10402.80			32.286	34.679	36.221	36.733	36.581
34	BOYNERIVER 10412.80	B12.5		32.301	34.682	36.23	36.739	36.592
35	BOYNERIVER 10414.00			32.258	34.674	36.216	36.727	36.575
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	32.239	34.656	36.202	36.712	36.559
37	BOYNERIVER 10832.90		Station Ck	32.125	34.527	36.069	36.575	36.423
38	BOYNERIVER 10832.90			32.125	34.527	36.069	36.575	36.423
39	BOYNERIVER 11254.50	B11.6		30.067	32.194	33.564	34.015	33.884
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	27.283	29.108	30.286	30.674	30.57
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	27.283	29.108	30.286	30.674	30.57
42	BOYNERIVER 12303.00			26.323	28.068	29.186	29.552	29.456
43	BOYNERIVER 12303.00		Boyne Trib1	26.323	28.068	29.186	29.552	29.456
44	BOYNERIVER 12455.40	B10.5		25.955	27.669	28.759	29.117	29.025
45	BOYNERIVER 12785.40		Machine Ck	25.208	26.911	27.98	28.333	28.244
46	BOYNERIVER 12785.40			25.208	26.911	27.98	28.333	28.244
47	BOYNERIVER 12874.90	B10.2		24.917	26.613	27.674	28.025	27.938
48	BOYNERIVER 13251.30	B9.8		24.649	26.345	27.411	27.763	27.676
49	BOYNERIVER 13865.90	B9.1		22.995	24.49	25.435	25.747	25.674
50	BOYNERIVER 14304.56		Wurdong Ck	22.268	23.682	24.577	24.873	24.805
51	BOYNERIVER 14304.56			22.268	23.682	24.577	24.873	24.805
52	BOYNERIVER 14472.20	B8.5		22.034	23.421	24.298	24.588	24.522
53	BOYNERIVER 14964.20	B8.0		21.58	22.988	23.884	24.18	24.113
54	BOYNERIVER 15341.20	B7.55		20.428	21.741	22.571	22.845	22.785
55	BOYNERIVER 15741.50	B7.2		19.982	21.342	22.21	22.495	22.433
56	BOYNERIVER 16062.90		O'L Boyne D/S	19.701	21.057	21.919	22.204	22.142
57	BOYNERIVER 16062.90			19.701	21.057	21.919	22.204	22.142
58	BOYNERIVER 16145.40	B6.8		19.656	21.012	21.876	22.161	22.099
59	BOYNERIVER 16727.90	B6.2		18.621	19.909	20.721	20.99	20.933
60	BOYNERIVER 17358.60	B5.55		17.773	19.035	19.821	20.083	20.029
61	BOYNERIVER 17722.19		South Trees	16.306	17.5	18.232	18.475	18.426
62	BOYNERIVER 17722.19			16.306	17.5	18.232	18.475	18.426
63	BOYNERIVER 17874.50			16.297	17.497	18.231	18.475	18.425
64	BOYNERIVER 18184.66		Cattle Ck	16.292	17.496	18.23	18.474	18.425
65	BOYNERIVER 18184.66			16.292	17.496	18.23	18.474	18.425
66	BOYNERIVER 18476.20	B4.5		15.816	16.964	17.658	17.889	17.842
67	BOYNERIVER 18884.20	B4.05		14.363	15.317	15.88	16.068	16.03
68	BOYNERIVER 19282.40	B3.65		14.358	15.344	15.917	16.106	16.068
69	BOYNERIVER 19869.50	B3.15		13.957	14.972	15.551	15.742	15.704
70	BOYNERIVER 20263.70	B2.75		13.003	13.929	14.436	14.604	14.57

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
71	BOYNERIVER 20684.60	B2.45		12.6	13.588	14.141	14.324	14.287
72	BOYNERIVER 20866.30	B2.25		12.374	13.321	13.839	14.01	13.975
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	11.45	12.371	12.858	13.02	12.988
74	BOYNERIVER 21471.70	B1.65		10.015	10.922	11.398	11.557	11.525
75	BOYNERIVER 21861.20	B1.2		8.333	8.945	9.308	9.428	9.404
76	BOYNERIVER 22251.30	B0.9		6.152	6.557	6.817	6.903	6.886
77	BOYNERIVER 22636.00	B0.5		2.42	2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1		39.867	41.871	42.867	43.3	43.006
79	COOMALCK 398.20	C2		39.832	41.919	42.838	43.276	42.995
80	COOMALCK 794.20	C3		39.809	41.77	42.83	43.254	42.992
81	COOMALCK 1209.50	C4		39.799	41.547	42.83	43.24	42.972
82	COOMALCK 1813.30	C5		39.783	41.53	42.827	43.251	42.971
83	COOMALCK 2352.80	C6		39.777	41.517	42.83	43.253	42.972
84	COOMALCK 3112.20	C7		39.767	41.485	42.83	43.247	42.977
85	COOMALCK 3751.30	C8		39.761	41.499	42.83	43.239	42.971
86	COOMALCK 4222.50	C9		39.759	41.521	42.832	43.239	42.969
87	COOMALCK 4305.00			39.758	41.538	42.832	43.24	42.969
88	YUNKACK 0.00	Y1		33.722	36.061	37.625	38.117	37.946
89	YUNKACK 574.20	Y2		33.72	36.068	37.595	38.105	37.943
90	YUNKACK 948.90	Y3		33.72	36.058	37.602	38.103	37.943
91	YUNKACK 1253.10	Y4		33.72	36.057	37.604	38.1	37.943
92	YUNKACK 1835.50	Y5		33.72	36.06	37.603	38.099	37.943
93	YUNKACK 2434.60	Y6		33.719	36.06	37.596	38.099	37.943
94	YUNKACK 2763.00	Y7		33.719	36.058	37.593	38.1	37.942
95	TUCKERGULLY 0.00			41.496	43.359	44.445	44.868	44.57
96	TUCKERGULLY 1066.80	TU-1		41.473	43.217	44.432	44.833	44.563
97	TUCKERGULLY 1965.80	TU-2		41.451	43.195	44.413	44.799	44.558
98	TUCKERGULLY 2491.10	TU-3		41.429	43.238	44.406	44.783	44.56
99	TUCKERGULLY 3217.50	TU-4		41.427	43.172	44.406	44.801	44.545
100	TUCKERGULLY 3966.50	TU-5		41.42	43.338	44.404	44.819	44.537
101	TUCKERGULLY 4522.10	TU-6		41.413	43.159	44.399	44.802	44.538
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	41.424	43.24	44.397	44.779	44.538
103	TUCKERGULLY 5765.40		Tucker Trib	41.421	43.176	44.391	44.794	44.53
104	TUCKERGULLY 5765.40			41.421	43.176	44.391	44.794	44.53
105	TUCKERGULLY 6350.10	TU-8		41.42	43.437	44.392	44.79	44.522
106	TUCKERGULLY 6669.00	TU-9		41.419	43.285	44.394	44.785	44.518
107	TUCKERTRIB 0.00			41.444	43.242	44.454	44.808	44.557
108	TUCKERTRIB 206.20	T1-1		41.441	43.238	44.467	44.794	44.555
109	TUCKERTRIB 730.40	T1-2		41.422	43.581	44.447	44.814	44.527
110	TUCKERTRIB 1416.70	T1-3		41.444	43.18	44.434	44.806	44.525
111	TUCKERTRIB 1944.80	T1-4		41.44	43.204	44.423	44.795	44.537
112	TUCKERTRIB 2331.50	T1-5		41.437	43.291	44.428	44.807	44.52
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	41.427	43.178	44.401	44.803	44.523
114	TUCKERTRIB 3377.00			41.421	43.176	44.391	44.794	44.53
115	STATIONCK 0.00	S1		32.167	34.568	36.108	36.613	36.462
116	STATIONCK 684.50	S2		32.167	34.567	36.108	36.613	36.462
117	STATIONCK 1599.70	S3		32.166	34.567	36.108	36.614	36.462
118	STATIONCK 2431.30	S4		32.166	34.566	36.108	36.612	36.461
119	STATIONCK 3013.70	S5		32.165	34.566	36.107	36.613	36.461
120	STATIONCK 3734.90	S6	Bruce H'way	32.164	34.565	36.106	36.612	36.46
121	STATIONCK 4481.70	S7		32.163	34.564	36.106	36.61	36.459
122	STATIONCK 5140.80	S8		32.162	34.562	36.106	36.61	36.458
123	STATIONCK 5918.90	S9		32.161	34.561	36.105	36.609	36.457
124	STATIONCK 6575.50	S10		32.16	34.56	36.104	36.607	36.456
125	STATIONCK 6954.40		O'L Station D/S	32.159	34.559	36.102	36.606	36.455
126	STATIONCK 6954.40			32.159	34.559	36.102	36.606	36.455
127	STATIONCK 7691.00	S11		32.125	34.527	36.069	36.575	36.423
128	MACHINECK 0.00	M1		31.45	34.181	34.199	34.288	33.615
129	MACHINECK 726.30	M2		26.741	29.298	29.313	29.39	28.714
130	MACHINECK 1186.80	M3		25.603	27.084	27.986	28.337	28.248
131	MACHINECK 1699.10	M4		25.213	26.915	27.984	28.337	28.248
132	MACHINECK 2214.80	M5		25.213	26.915	27.984	28.336	28.247
133	MACHINECK 2730.60	M6		25.212	26.914	27.984	28.336	28.247
134	MACHINECK 3140.90	M7		25.212	26.914	27.984	28.335	28.247
135	MACHINECK 3611.90	M8		25.211	26.914	27.983	28.335	28.247
136	MACHINECK 4246.80	M9	Road/Rail X-ing	25.211	26.913	27.982	28.335	28.246
137	MACHINECK 5099.90	M10		25.21	26.913	27.982	28.334	28.246
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	25.21	26.912	27.982	28.334	28.245
139	MACHINECK 6711.00	M12		25.208	26.911	27.98	28.333	28.244
140	O'LSATION 0.00			32.875	35.302	36.863	37.374	37.22
141	O'LSATION 304.10	O2-1		32.834	35.267	36.829	37.34	37.186
142	O'LSATION 1252.20	O2-2		32.692	35.136	36.694	37.208	37.054



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
143	O'NSTATION 1924.60	O2-3		32.445	34.872	36.417	36.929	36.777
144	O'NSTATION 2385.50			32.233	34.637	36.179	36.684	36.532
145	O'NSTATION 2588.00	O2-4	Bruce H'way	32.159	34.559	36.102	36.606	36.455
146	WURDONGCK 0.00	W1		24.657	26.604	26.6	26.761	27.313
147	WURDONGCK 616.40	W2		22.27	23.684	24.578	24.874	24.807
148	WURDONGCK 1311.60	W3		22.269	23.683	24.578	24.874	24.806
149	WURDONGCK 1752.90	W4		22.269	23.683	24.578	24.874	24.806
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	22.269	23.683	24.578	24.874	24.806
151	WURDONGCK 3446.50	W6		22.269	23.683	24.578	24.873	24.806
152	WURDONGCK 4664.00	W7		22.268	23.682	24.577	24.873	24.805
153	BOYNETRIB1 0.00	T2-1		26.324	28.069	29.187	29.554	29.457
154	BOYNETRIB1 573.10	T2-2		26.324	28.07	29.185	29.553	29.457
155	BOYNETRIB1 1368.30	T2-3		26.324	28.069	29.185	29.553	29.457
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	26.324	28.069	29.185	29.552	29.456
157	BOYNETRIB1 2194.80	T2-5		26.323	28.069	29.186	29.552	29.456
158	BOYNETRIB1 2663.00	T2-6		26.323	28.068	29.186	29.552	29.456
159	BOYNETRIB2 0.00	T3-1		27.283	29.109	30.288	30.675	30.57
160	BOYNETRIB2 381.20	T3-2		27.283	29.108	30.287	30.675	30.57
161	BOYNETRIB2 713.60	T3-3		27.283	29.108	30.286	30.675	30.57
162	BOYNETRIB2 1247.10	T3-4		27.283	29.108	30.286	30.674	30.57
163	BOYNETRIB2 1804.00	T3-5		27.283	29.108	30.286	30.674	30.57
164	O'LANDBOYNE 0.00			27.283	29.108	30.286	30.674	30.57
165	O'LANDBOYNE 462.10	O3-1		22.354	23.822	24.779	25.096	25.014
166	O'LANDBOYNE 843.90	O3-2		20.655	21.929	22.735	23.003	22.943
167	O'LANDBOYNE 1492.50	O3-3		19.791	21.138	21.996	22.279	22.218
168	O'LANDBOYNE 1924.31		O'Land01 U/S	19.701	21.056	21.918	22.203	22.141
169	O'LANDBOYNE 1924.31			19.701	21.056	21.918	22.203	22.141
170	O'LANDBOYNE 2032.00	O3-4		19.701	21.057	21.919	22.204	22.142
171	O'LAND01 0.00			19.701	21.056	21.918	22.203	22.141
172	O'LAND01 415.30	O4-01		18.968	20.273	21.099	21.372	21.314
173	O'LAND01 1018.80	O4-02		18.419	19.721	20.541	20.811	20.754
174	O'LAND01 1360.20	O4-03		18.208	19.513	20.331	20.602	20.545
175	O'LAND01 1988.30	O4-04		17.903	19.201	20.011	20.279	20.223
176	O'LAND01 2586.50	O4-05		17.68	18.965	19.764	20.029	19.973
177	O'LAND01 3091.00	O4-06		17.081	18.317	19.076	19.328	19.276
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	17.082	18.318	19.077	19.328	19.277
179	CATTLECK 743.60	CC2		17.081	18.318	19.077	19.328	19.276
180	CATTLECK 1293.10	CC3		17.081	18.318	19.077	19.328	19.276
181	CATTLECK 1994.43		O'Land 01 D/S	17.081	18.317	19.076	19.328	19.276
182	CATTLECK 1994.43			17.081	18.317	19.076	19.328	19.276
183	CATTLECK 2124.80	CC4		16.73	17.944	18.684	18.93	18.88
184	CATTLECK 2335.00			16.292	17.496	18.23	18.474	18.425
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	16.306	17.5	18.232	18.475	18.426
186	STHTREES 851.80	ST2		15.543	16.737	17.474	17.719	17.671
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	15.295	16.485	17.219	17.463	17.415
188	STHTREES 2361.30	ST4		15.08	16.264	16.996	17.239	17.191
189	STHTREES 2829.50	ST5		15.029	16.217	16.951	17.195	17.147
190	STHTREES 3773.50	ST6		14.849	16.027	16.753	16.994	16.947
191	STHTREES 4171.60	ST7		14.695	15.851	16.564	16.8	16.754
192	STHTREES 4595.40	ST8		14.409	15.533	16.223	16.451	16.407
193	STHTREES 5122.39		Ten Mile Ck	14.079	15.2	15.888	16.116	16.072
194	STHTREES 5122.39			14.079	15.2	15.888	16.116	16.072
195	STHTREES 5493.40	ST9		13.711	14.787	15.452	15.673	15.63
196	STHTREES 6390.90	ST10		11.824	12.748	13.328	13.52	13.484
197	STHTREES 7658.80	ST11		9.933	10.768	11.275	11.442	11.412
198	STHTREES 8251.05		Eleven Mile Ck	9.692	10.497	10.986	11.147	11.118
199	STHTREES 8251.05			9.692	10.497	10.986	11.147	11.118
200	STHTREES 9287.10	ST12		9.091	9.823	10.267	10.413	10.387
201	STHTREES 11258.10	ST13		7.787	8.377	8.725	8.84	8.82
202	STHTREES 12688.10	ST14		6.685	7.158	7.428	7.516	7.5
203	STHTREES 14444.90	ST15		5.545	5.803	5.909	5.935	5.931
204	STHTREES 17478.00	ST16		2.42	2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	14.079	15.201	15.888	16.117	16.072
206	TENMILECK 510.20	T4-2		14.079	15.201	15.888	16.117	16.072
207	TENMILECK 1040.50	T4-3		14.079	15.201	15.888	16.117	16.072
208	TENMILECK 1753.90	T4-4		14.079	15.201	15.888	16.116	16.072
209	TENMILECK 2298.00	T4-5		14.079	15.2	15.888	16.116	16.072
210	ELEVENMILECK 0.00	T5-1		11.256	13.072	13.083	13.129	12.456
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9.693	10.498	10.988	11.148	11.119
212	ELEVENMILECK 1811.40	T5-3		9.694	10.498	10.987	11.148	11.119
213	ELEVENMILECK 3118.20	T5-4		9.692	10.498	10.987	11.147	11.119
214	ELEVENMILECK 3887.00			9.692	10.497	10.986	11.147	11.118

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL55

PMF Failure - Max Water Levels - SDF, 6hr, 12hr, 24hr & 48hr

No.	River/Branch Name	Cross Section ID	Location	SDF	6hr - PMF Failure	12hr - PMF Failure	24hr - PMF Failure	48hr - PMF Failure
				Maximum	Maximum	Maximum	Maximum	Maximum
				WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
215	LITTLEOAKYCK 0.00	O1-1A		34.147	36.433	37.948	38.43	38.269
216	LITTLEOAKYCK 670.00	O1-2A		34.148	36.432	37.945	38.426	38.269
217	LITTLEOAKYCK 1834.00	O1-3A		34.147	36.43	37.93	38.426	38.269
218	LITTLEOAKYCK 1958.00			34.147	36.43	37.93	38.426	38.269
219	SPILLWAY 0.00			54.934	56.339	57.833	58.222	57.577
220	SPILLWAY 300.00			47.473	49.6	50.711	51.145	50.864

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

### Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	cumecs	m/sec
1	BOYNERIVER 0.00			9/01/2003 9:11	54.926	9/01/2003 10:00	0:49:59	0.5	0
2	BOYNERIVER 100.00			9/01/2003 9:11	54.934	9/01/2003 10:00	0:49:59	113575.828	5.329
3	BOYNERIVER 100.00			9/01/2003 9:11	54.934	9/01/2003 10:00	0:49:59	99247.633	4.657
4	BOYNERIVER 150.00			9/01/2003 9:11	54.942	9/01/2003 9:11	0:00:00	97866.891	6.478
5	BOYNERIVER 350.00			9/01/2003 9:11	47.353	9/01/2003 14:11	5:00:00	92381.766	6.278
6	BOYNERIVER 420.00			9/01/2003 9:11	47.473	9/01/2003 14:11	5:00:00	91111.281	5.883
7	BOYNERIVER 420.00			9/01/2003 9:11	47.473	9/01/2003 14:11	5:00:00	87914.305	5.676
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	47.314	9/01/2003 14:11	5:00:00	85724.563	4.354
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	44.538	9/01/2003 14:11	5:00:00	85603.109	7.287
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	41.752	9/01/2003 15:01	5:50:00	85549.969	8.438
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	41.419	9/01/2003 15:01	5:50:00	85476.125	7.563
12	BOYNERIVER 2182.33			9/01/2003 9:11	41.419	9/01/2003 15:01	5:50:00	76580.383	6.776
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	40.192	9/01/2003 15:01	5:50:00	76433.891	6.973
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	39.758	9/01/2003 15:01	5:50:00	75851.477	3.671
15	BOYNERIVER 3120.26			9/01/2003 9:11	39.758	9/01/2003 15:01	5:50:00	75657.359	3.512
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	39.56	9/01/2003 15:01	5:50:00	75685.328	3.37
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	37.692	9/01/2003 15:01	5:50:00	75760.672	5.293
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	34.418	9/01/2003 17:30	8:19:59	75751.563	7.987
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	34.147	9/01/2003 17:30	8:19:59	75601.438	4.642
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	34.147	9/01/2003 17:30	8:19:59	74048.734	4.225
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	34.037	9/01/2003 17:30	8:19:59	73820.414	3.142
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	33.719	9/01/2003 17:30	8:19:59	73271.055	2.963
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	33.719	9/01/2003 17:30	8:19:59	72173.078	2.829
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	33.343	9/01/2003 17:30	8:19:59	71560.414	3.92
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	32.875	9/01/2003 17:30	8:19:59	70728.758	4.261
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	32.875	9/01/2003 17:30	8:19:59	36412.434	2.741
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	32.812	9/01/2003 17:30	8:19:59	35893.988	2.714
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	32.802	9/01/2003 17:30	8:19:59	35508.09	1.81
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	32.616	9/01/2003 17:30	8:19:59	35167.289	3.681
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	32.409	9/01/2003 18:21	9:10:00	34933.605	4.532
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	32.44	9/01/2003 18:21	9:10:00	34645.793	3.465
32	BOYNERIVER 10401.00			9/01/2003 9:11	32.263	9/01/2003 18:21	9:10:00	34460.488	4.296
33	BOYNERIVER 10402.80			9/01/2003 9:11	32.286	9/01/2003 18:21	9:10:00	34458.914	4.3
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	32.301	9/01/2003 18:21	9:10:00	34437.836	4.313
35	BOYNERIVER 10414.00			9/01/2003 9:11	32.258	9/01/2003 18:21	9:10:00	34435.586	4.313
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	32.239	9/01/2003 18:21	9:10:00	34231.676	4.061
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	32.125	9/01/2003 18:21	9:10:00	34103.559	5.089
38	BOYNERIVER 10832.90			9/01/2003 9:11	32.125	9/01/2003 18:21	9:10:00	50672.492	4.831
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	30.067	9/01/2003 18:21	9:10:00	50653.941	7.39
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	50628.066	7.838
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	30410.885	4.879
42	BOYNERIVER 12303.00			9/01/2003 9:11	26.323	9/01/2003 18:21	9:10:00	30386.826	5.176
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	26.323	9/01/2003 18:21	9:10:00	30022.045	4.922
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	25.955	9/01/2003 18:21	9:10:00	30013.453	5.028
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	25.208	9/01/2003 18:21	9:10:00	29991.324	5.213
46	BOYNERIVER 12785.40			9/01/2003 9:11	25.208	9/01/2003 18:21	9:10:00	29540.439	4.782
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	24.917	9/01/2003 19:11	10:00:00	29538.736	4.939
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	24.649	9/01/2003 19:11	10:00:00	29530.176	3.686
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	22.995	9/01/2003 19:11	10:00:00	29513.947	5.233
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	22.268	9/01/2003 19:11	10:00:00	29500.406	4.427
51	BOYNERIVER 14304.56			9/01/2003 9:11	22.268	9/01/2003 19:11	10:00:00	29046.043	4.283
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	22.034	9/01/2003 19:11	10:00:00	29046.514	4.031
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	21.58	9/01/2003 19:11	10:00:00	29047.947	2.961
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	20.428	9/01/2003 19:11	10:00:00	29048.531	4.245
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	19.982	9/01/2003 19:11	10:00:00	29047.824	2.682
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	19.701	9/01/2003 19:11	10:00:00	29046.502	2.145
57	BOYNERIVER 16062.90			9/01/2003 9:11	19.701	9/01/2003 19:11	10:00:00	26850.229	2.045
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	19.656	9/01/2003 19:11	10:00:00	26839.676	1.952
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	18.621	9/01/2003 19:11	10:00:00	26786.742	4.282
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	17.773	9/01/2003 19:11	10:00:00	26751.307	4.433
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	16.306	9/01/2003 20:00	10:49:59	26729.477	6.945
62	BOYNERIVER 17722.19			9/01/2003 9:11	16.306	9/01/2003 20:00	10:49:59	5568.979	2.991
63	BOYNERIVER 17874.50			9/01/2003 9:11	16.297	9/01/2003 20:00	10:49:59	5536.111	3.506
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	16.292	9/01/2003 20:00	10:49:59	5467.243	3.101
65	BOYNERIVER 18184.66			9/01/2003 9:11	16.292	9/01/2003 20:00	10:49:59	24176.377	5.711
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	15.816	9/01/2003 20:00	10:49:59	24171.805	5.143
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	14.363	9/01/2003 20:00	10:49:59	24165.516	6.009
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	14.358	9/01/2003 20:00	10:49:59	24160.043	3.36
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	13.957	9/01/2003 20:00	10:49:59	24174.232	2.433
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	13.003	9/01/2003 20:00	10:49:59	24183.244	4.092
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	12.6	9/01/2003 20:00	10:49:59	24192.809	2.814

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

### Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	cumecs	m/sec
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	12.374	9/01/2003 20:00	10:49:59	24197.729	2.735
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	11.45	9/01/2003 20:00	10:49:59	24206.412	3.733
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	10.015	9/01/2003 20:00	10:49:59	24209.566	7.106
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.333	9/01/2003 20:00	10:49:59	24214.063	4.269
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.152	9/01/2003 20:00	10:49:59	24218.414	4.713
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	24220.297	20.231
78	COOMALCK 0.00	C1		9/01/2003 9:11	39.867	9/01/2003 15:01	5:50:00	6	0.952
79	COOMALCK 398.20	C2		9/01/2003 9:11	39.832	9/01/2003 15:01	5:50:00	22.242	0.696
80	COOMALCK 794.20	C3		9/01/2003 9:11	39.809	9/01/2003 15:01	5:50:00	37.604	0.596
81	COOMALCK 1209.50	C4		9/01/2003 9:11	39.799	9/01/2003 15:01	5:50:00	65.026	0.638
82	COOMALCK 1813.30	C5		9/01/2003 9:11	39.783	9/01/2003 15:01	5:50:00	109.212	1.33
83	COOMALCK 2352.80	C6		9/01/2003 9:11	39.777	9/01/2003 15:01	5:50:00	190.206	0.455
84	COOMALCK 3112.20	C7		9/01/2003 9:11	39.767	9/01/2003 15:01	5:50:00	388.292	1.457
85	COOMALCK 3751.30	C8		9/01/2003 9:11	39.761	9/01/2003 15:01	5:50:00	578.763	0.376
86	COOMALCK 4222.50	C9		9/01/2003 9:11	39.759	9/01/2003 15:01	5:50:00	687.986	1.595
87	COOMALCK 4305.00			9/01/2003 9:11	39.758	9/01/2003 15:01	5:50:00	697.097	2.99
88	YUNKACK 0.00	Y1		9/01/2003 9:11	33.722	9/01/2003 17:30	8:19:59	3.5	0.856
89	YUNKACK 574.20	Y2		9/01/2003 9:11	33.72	9/01/2003 17:30	8:19:59	35.322	1.231
90	YUNKACK 948.90	Y3		9/01/2003 9:11	33.72	9/01/2003 17:30	8:19:59	69.004	0.521
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	33.72	9/01/2003 17:30	8:19:59	117.536	1.006
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	33.72	9/01/2003 17:30	8:19:59	245.862	0.554
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	33.719	9/01/2003 17:30	8:19:59	464.339	0.423
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	33.719	9/01/2003 17:30	8:19:59	601.826	4.391
95	TUCKERGULLY 0.00			9/01/2003 9:11	41.496	9/01/2003 15:01	5:50:00	2.5	0.218
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	41.473	9/01/2003 15:01	5:50:00	106.052	0.947
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	41.451	9/01/2003 15:01	5:50:00	191.064	0.699
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	41.429	9/01/2003 15:01	5:50:00	238.608	0.705
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	41.427	9/01/2003 15:01	5:50:00	334.839	0.717
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	41.42	9/01/2003 15:01	5:50:00	471.178	0.553
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	41.413	9/01/2003 15:01	5:50:00	593.036	0.503
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	41.424	9/01/2003 15:01	5:50:00	810.664	0.818
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	41.421	9/01/2003 15:01	5:50:00	917.52	0.419
104	TUCKERGULLY 5765.40			9/01/2003 9:11	41.421	9/01/2003 15:01	5:50:00	1693.956	0.839
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	41.42	9/01/2003 15:01	5:50:00	1901.239	0.182
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	41.419	9/01/2003 15:01	5:50:00	2031.033	0.349
107	TUCKERTRIB 0.00			9/01/2003 9:11	41.444	9/01/2003 15:01	5:50:00	2.5	0.28
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	41.441	9/01/2003 15:01	5:50:00	28.569	0.815
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	41.422	9/01/2003 15:01	5:50:00	109.377	1.268
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	41.444	9/01/2003 15:01	5:50:00	280.6	0.867
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	41.44	9/01/2003 15:01	5:50:00	443.039	0.328
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	41.437	9/01/2003 15:01	5:50:00	546.511	0.833
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	41.427	9/01/2003 15:01	5:50:00	729.933	0.436
114	TUCKERTRIB 3377.00			9/01/2003 9:11	41.421	9/01/2003 15:01	5:50:00	892.25	6.067
115	STATIONCK 0.00	S1		9/01/2003 9:11	32.167	9/01/2003 18:21	9:10:00	0.5	0.17
116	STATIONCK 684.50	S2		9/01/2003 9:11	32.167	9/01/2003 18:21	9:10:00	463.388	0.233
117	STATIONCK 1599.70	S3		9/01/2003 9:11	32.166	9/01/2003 18:21	9:10:00	1179.785	0.167
118	STATIONCK 2431.30	S4		9/01/2003 9:11	32.166	9/01/2003 18:21	9:10:00	1836.025	0.202
119	STATIONCK 3013.70	S5		9/01/2003 9:11	32.165	9/01/2003 18:21	9:10:00	2355.312	0.108
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	32.164	9/01/2003 18:21	9:10:00	2945.034	0.173
121	STATIONCK 4481.70	S7		9/01/2003 9:11	32.163	9/01/2003 18:21	9:10:00	3436.186	0.107
122	STATIONCK 5140.80	S8		9/01/2003 9:11	32.162	9/01/2003 18:21	9:10:00	3920.247	0.118
123	STATIONCK 5918.90	S9		9/01/2003 9:11	32.161	9/01/2003 18:21	9:10:00	4543.377	0.162
124	STATIONCK 6575.50	S10		9/01/2003 9:11	32.16	9/01/2003 18:21	9:10:00	4974.507	0.286
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	32.159	9/01/2003 18:21	9:10:00	5187.105	0.355
126	STATIONCK 6954.40			9/01/2003 9:11	32.159	9/01/2003 18:21	9:10:00	26781.844	0.869
127	STATIONCK 7691.00	S11		9/01/2003 9:11	32.125	9/01/2003 18:21	9:10:00	26879.061	0.847
128	MACHINECK 0.00	M1		9/01/2003 9:11	31.45	9/01/2003 20:51	11:40:00	0.5	0.239
129	MACHINECK 726.30	M2		9/01/2003 9:11	26.741	9/01/2003 21:41	12:30:00	0.605	0.256
130	MACHINECK 1186.80	M3		9/01/2003 9:11	25.603	9/01/2003 21:41	12:30:00	21.41	2.78
131	MACHINECK 1699.10	M4		9/01/2003 9:11	25.213	9/01/2003 18:21	9:10:00	35.698	0.13
132	MACHINECK 2214.80	M5		9/01/2003 9:11	25.213	9/01/2003 18:21	9:10:00	37.344	4.589
133	MACHINECK 2730.60	M6		9/01/2003 9:11	25.212	9/01/2003 18:21	9:10:00	72.45	0.211
134	MACHINECK 3140.90	M7		9/01/2003 9:11	25.212	9/01/2003 18:21	9:10:00	112.111	0.609
135	MACHINECK 3611.90	M8		9/01/2003 9:11	25.211	9/01/2003 18:21	9:10:00	162.333	0.27
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	25.211	9/01/2003 18:21	9:10:00	270.39	1.593
137	MACHINECK 5099.90	M10		9/01/2003 9:11	25.21	9/01/2003 18:21	9:10:00	441.54	0.526
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	25.21	9/01/2003 18:21	9:10:00	598.887	0.056
139	MACHINECK 6711.00	M12		9/01/2003 9:11	25.208	9/01/2003 18:21	9:10:00	733.969	0.129
140	OLSTATION 0.00			9/01/2003 9:11	32.875	9/01/2003 17:30	8:19:59	34316.324	1.941
141	OLSTATION 304.10	O2-1		9/01/2003 9:11	32.834	9/01/2003 17:30	8:19:59	33881.027	1.923
142	OLSTATION 1252.20	O2-2		9/01/2003 9:11	32.692	9/01/2003 17:30	8:19:59	32576.84	2.819
143	OLSTATION 1924.60	O2-3		9/01/2003 9:11	32.445	9/01/2003 18:21	9:10:00	31843.971	3.644
144	OLSTATION 2385.50			9/01/2003 9:11	32.233	9/01/2003 18:21	9:10:00	31513.168	4.719

**BOYNE RIVER**  
**Dambreak and Flood Modelling Study**  
**Feature: Dambreak FSL55**  
**Sunny Day Failure**

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	cumecs	m/sec
145	O'NSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	32.159	9/01/2003 18:21	9:10:00	31398.68	9.555
146	WURDONGCK 0.00	W1		9/01/2003 9:11	24.657	10/01/2003 1:50	16:39:59	0.5	0.278
147	WURDONGCK 616.40	W2		9/01/2003 9:11	22.27	9/01/2003 19:11	10:00:00	18.245	2.598
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	22.269	9/01/2003 19:11	10:00:00	42.976	1.509
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	22.269	9/01/2003 19:11	10:00:00	89.81	3.861
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	22.269	9/01/2003 19:11	10:00:00	251.822	0.266
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	22.269	9/01/2003 19:11	10:00:00	675.214	0.043
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	22.268	9/01/2003 19:11	10:00:00	1199.053	0.398
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	26.324	9/01/2003 18:21	9:10:00	3.5	0.608
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	26.324	9/01/2003 18:21	9:10:00	31.128	1.215
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	26.324	9/01/2003 18:21	9:10:00	142.804	0.122
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	26.324	9/01/2003 18:21	9:10:00	244.366	0.521
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	26.323	9/01/2003 18:21	9:10:00	313.491	1.044
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	26.323	9/01/2003 18:21	9:10:00	383.97	2.993
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	1.5	0.208
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	65.181	0.684
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	140.194	0.714
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	257.344	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	410.136	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	27.283	9/01/2003 18:21	9:10:00	20324.857	6.619
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	22.354	9/01/2003 18:21	9:10:00	20323.236	8.813
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	20.655	9/01/2003 19:11	10:00:00	20315.871	4.206
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	19.791	9/01/2003 19:11	10:00:00	20265.316	4.094
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	19.701	9/01/2003 19:11	10:00:00	20208.182	1.888
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	19.701	9/01/2003 19:11	10:00:00	3675.987	1.05
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	19.701	9/01/2003 19:11	10:00:00	3566.163	1.495
171	O'LAND01 0.00			9/01/2003 9:11	19.701	9/01/2003 19:11	10:00:00	22224.557	2.853
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	18.968	9/01/2003 19:11	10:00:00	22221.455	3.074
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	18.419	9/01/2003 19:11	10:00:00	22211.307	2.51
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	18.208	9/01/2003 19:11	10:00:00	22202.516	2.153
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	17.903	9/01/2003 19:11	10:00:00	22181.223	1.834
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	17.68	9/01/2003 19:11	10:00:00	22156.037	1.659
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	17.081	9/01/2003 19:11	10:00:00	22134.375	3.13
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	17.082	9/01/2003 19:11	10:00:00	0.5	0.017
179	CATTLECK 743.60	CC2		9/01/2003 9:11	17.081	9/01/2003 19:11	10:00:00	139.473	0.17
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	17.081	9/01/2003 19:11	10:00:00	257.079	0.061
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	17.081	9/01/2003 19:11	10:00:00	385.844	0.059
182	CATTLECK 1994.43			9/01/2003 9:11	17.081	9/01/2003 19:11	10:00:00	22004.023	2.084
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	16.73	9/01/2003 19:11	10:00:00	21998.039	3.135
184	CATTLECK 2335.00			9/01/2003 9:11	16.292	9/01/2003 20:00	10:49:59	21987.545	3.372
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	16.306	9/01/2003 20:00	10:49:59	24587.982	2.014
186	STHTREES 851.80	ST2		9/01/2003 9:11	15.543	9/01/2003 20:00	10:49:59	24416.156	1.812
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	15.295	9/01/2003 20:00	10:49:59	24318.939	1.864
188	STHTREES 2361.30	ST4		9/01/2003 9:11	15.08	9/01/2003 20:00	10:49:59	24202.482	1.58
189	STHTREES 2829.50	ST5		9/01/2003 9:11	15.029	9/01/2003 20:00	10:49:59	24113.816	1.238
190	STHTREES 3773.50	ST6		9/01/2003 9:11	14.849	9/01/2003 20:00	10:49:59	23926.941	1.227
191	STHTREES 4171.60	ST7		9/01/2003 9:11	14.695	9/01/2003 20:00	10:49:59	23869.332	1.656
192	STHTREES 4595.40	ST8		9/01/2003 9:11	14.409	9/01/2003 20:00	10:49:59	23824.539	2.244
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	23821.844	2.237
194	STHTREES 5122.39			9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	23827.416	2.211
195	STHTREES 5493.40	ST9		9/01/2003 9:11	13.711	9/01/2003 20:00	10:49:59	23827.506	2.605
196	STHTREES 6390.90	ST10		9/01/2003 9:11	11.824	9/01/2003 20:00	10:49:59	23824.74	5.523
197	STHTREES 7658.80	ST11		9/01/2003 9:11	9.933	9/01/2003 20:51	11:40:00	23773.133	1.463
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	9.692	9/01/2003 20:51	11:40:00	23725.637	1.573
199	STHTREES 8251.05			9/01/2003 9:11	9.692	9/01/2003 20:51	11:40:00	23583.484	1.548
200	STHTREES 9287.10	ST12		9/01/2003 9:11	9.091	9/01/2003 20:51	11:40:00	23495.152	1.849
201	STHTREES 11258.10	ST13		9/01/2003 9:11	7.787	9/01/2003 20:51	11:40:00	23468.141	1.612
202	STHTREES 12688.10	ST14		9/01/2003 9:11	6.685	9/01/2003 20:51	11:40:00	23467.23	1.627
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.545	9/01/2003 20:51	11:40:00	23435.602	1.137
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	23397.104	4.346
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	3.5	0.736
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	30.33	0.642
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	74.873	0.02
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	144.8	0.034
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	14.079	9/01/2003 20:00	10:49:59	215.385	0.036
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	11.256	10/01/2003 21:00	35:49:59	1.5	0.205
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	9.693	9/01/2003 20:51	11:40:00	42.234	1.486
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	9.694	9/01/2003 20:51	11:40:00	70.647	0.021
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	9.692	9/01/2003 20:51	11:40:00	203.347	0.036
214	ELEVENMILECK 3887.00			9/01/2003 9:11	9.692	9/01/2003 20:51	11:40:00	284.888	0.054
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	34.147	9/01/2003 17:30	8:19:59	2.5	0.915
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	34.148	9/01/2003 17:30	8:19:59	330.016	0.865
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	34.147	9/01/2003 17:30	8:19:59	1188.393	0.122

**BOYNE RIVER**

Dambreak and Flood Modelling Study

Feature: Dambreak FSL55

Sunny Day Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	SDF				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	cumecs	m/sec
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	34.147	9/01/2003 17:30	8:19:59	1284.615	0.127
219	SPILLWAY 0.00			9/01/2003 9:11	54.934	9/01/2003 10:00	0:49:59	14328.199	0.574
220	SPILLWAY 300.00			9/01/2003 9:11	47.473	9/01/2003 14:11	5:00:00	46.781	0.005

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	56.344	9/01/2003 20:17	11:06:39	20074.732	0.731	56.342	9/01/2003 20:17	11:06:39	20074.467	0.731
2	BOYNERIVER 100.00			9/01/2003 9:11	56.339	9/01/2003 20:07	10:56:40	113799.43	5.184	56.337	9/01/2003 20:11	11:00:00	13412.086	0.556
3	BOYNERIVER 100.00			9/01/2003 9:11	56.339	9/01/2003 20:07	10:56:40	101040.859	4.603	56.337	9/01/2003 20:11	11:00:00	811.239	0.034
4	BOYNERIVER 150.00			9/01/2003 9:11	56.339	9/01/2003 20:07	10:56:40	100049.438	6.352	56.337	9/01/2003 20:11	11:00:00	810.076	0.044
5	BOYNERIVER 350.00			9/01/2003 9:11	50.861	10/01/2003 0:47	15:36:39	97068.359	6.416	26.76	9/01/2003 21:11	12:00:00	809.063	1.189
6	BOYNERIVER 420.00			9/01/2003 9:11	49.6	10/01/2003 0:24	15:13:20	96497.25	6.016	26.76	9/01/2003 21:11	12:00:00	808.975	0.96
7	BOYNERIVER 420.00			9/01/2003 9:11	49.6	10/01/2003 0:24	15:13:20	95710.297	5.956	26.76	9/01/2003 21:11	12:00:00	13393.186	2.274
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	49.22	10/01/2003 0:30	15:19:59	94965.805	4.597	26.251	9/01/2003 21:11	12:00:00	13391.951	2.751
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	46.562	10/01/2003 0:30	15:19:59	94746.828	7.802	25.453	9/01/2003 21:30	12:19:59	13385.405	2.756
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	43.589	10/01/2003 0:54	15:43:20	94733.789	9.148	24.424	9/01/2003 21:51	12:40:00	13383.295	3.418
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	43.285	10/01/2003 0:51	15:40:00	94668.266	8.249	24.23	9/01/2003 21:51	12:40:00	13384.321	2.724
12	BOYNERIVER 2182.33			9/01/2003 9:11	43.285	10/01/2003 0:51	15:40:00	86545.461	7.079	24.23	9/01/2003 21:51	12:40:00	13337.986	2.578
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	41.943	10/01/2003 1:00	15:49:59	86696.383	7.242	23.745	9/01/2003 22:04	12:53:20	13336.768	2.964
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	41.538	10/01/2003 0:54	15:43:20	86508.016	3.788	23.319	9/01/2003 22:17	13:06:39	13321.004	1.61
15	BOYNERIVER 3120.26			9/01/2003 9:11	41.538	10/01/2003 0:54	15:43:20	85591.109	3.682	23.319	9/01/2003 22:17	13:06:39	13279.908	1.527
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	41.372	10/01/2003 1:07	15:56:40	85298.523	3.52	23.209	9/01/2003 22:17	13:06:39	13275.45	1.556
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	39.481	10/01/2003 1:07	15:56:40	84984.75	5.569	22.582	9/01/2003 22:30	13:19:59	13262.832	2.157
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	36.636	10/01/2003 3:07	17:56:40	84737.805	8.189	21.232	9/01/2003 23:57	14:46:39	13250.822	3.826
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	36.43	10/01/2003 3:14	18:03:19	84374.57	4.668	20.785	10/01/2003 0:11	15:00:00	13231.416	1.728
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	36.43	10/01/2003 3:14	18:03:19	81450.664	4.396	20.785	10/01/2003 0:11	15:00:00	13097.156	1.593
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	36.356	10/01/2003 3:14	18:03:19	81148.258	3.138	20.476	10/01/2003 0:11	15:00:00	13077.213	2.497
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	36.058	10/01/2003 3:20	18:09:59	80210.359	2.929	19.968	10/01/2003 0:30	15:19:59	13031.938	1.973
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	36.058	10/01/2003 3:20	18:09:59	78619.297	2.834	19.968	10/01/2003 0:30	15:19:59	12976.755	1.935
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	35.719	10/01/2003 3:24	18:13:19	77629.367	3.481	19.444	10/01/2003 0:51	15:40:00	12946.329	2.183
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	35.302	10/01/2003 3:31	18:20:00	76594.102	3.959	18.96	10/01/2003 1:11	16:00:00	12911.458	2.465
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	35.302	10/01/2003 3:31	18:20:00	37203.086	2.41	18.96	10/01/2003 1:11	16:00:00	9287.628	2.407
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	35.246	10/01/2003 3:34	18:23:20	36520.254	2.094	18.825	10/01/2003 1:11	16:00:00	9239.754	1.968
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	35.238	10/01/2003 3:34	18:23:20	36069.238	1.549	18.794	10/01/2003 1:11	16:00:00	9203.547	1.342
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	35.054	10/01/2003 3:34	18:23:20	35681.277	3.202	18.653	10/01/2003 1:11	16:00:00	9172.01	1.868
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	34.834	10/01/2003 3:37	18:26:40	35432.59	3.936	18.467	10/01/2003 1:31	16:20:00	9155.076	2.063
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	34.882	10/01/2003 3:37	18:26:40	35142.844	2.665	18.38	10/01/2003 1:31	16:20:00	9138.302	1.929
32	BOYNERIVER 10401.00			9/01/2003 9:11	34.678	10/01/2003 3:41	18:30:00	34966.289	3.638	18.25	10/01/2003 1:31	16:20:00	9143.543	1.973
33	BOYNERIVER 10402.80			9/01/2003 9:11	34.679	10/01/2003 3:41	18:30:00	34966.219	3.639	18.252	10/01/2003 1:31	16:20:00	9143.729	1.974
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	34.682	10/01/2003 3:34	18:23:20	34962.672	3.638	18.257	10/01/2003 1:57	16:46:40	9141.833	1.972
35	BOYNERIVER 10414.00			9/01/2003 9:11	34.674	10/01/2003 3:41	18:30:00	34961.406	3.637	18.247	10/01/2003 1:31	16:20:00	9141.336	1.971
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	34.656	10/01/2003 3:41	18:30:00	34747.965	3.317	18.194	10/01/2003 1:31	16:20:00	9111.808	1.859
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	34.527	10/01/2003 3:41	18:30:00	34639.602	3.925	18.096	10/01/2003 1:31	16:20:00	9101.753	2.324
38	BOYNERIVER 10832.90			9/01/2003 9:11	34.527	10/01/2003 3:41	18:30:00	59725.918	5.251	18.096	10/01/2003 1:31	16:20:00	12395.068	2.333
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	32.194	10/01/2003 3:47	18:36:39	59715.957	8.056	17.321	10/01/2003 1:37	16:26:40	12393.615	3.486
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	29.108	10/01/2003 4:04	18:53:20	59699.398	8.546	16.096	10/01/2003 1:57	16:46:40	12392.619	3.506
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	29.108	10/01/2003 4:04	18:53:20	35218.465	5.13	16.096	10/01/2003 1:57	16:46:40	8812.359	2.51
42	BOYNERIVER 12303.00			9/01/2003 9:11	28.068	10/01/2003 4:11	19:00:00	35195.715	5.426	15.591	10/01/2003 2:11	17:00:00	8811.238	2.516
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	28.068	10/01/2003 4:11	19:00:00	34871.691	5.275	15.591	10/01/2003 2:11	17:00:00	8799.435	2.505

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	27.669	10/01/2003 4:14	19:03:19	34866.602	5.392	15.418	10/01/2003 2:11	17:00:00	8798.719	2.518
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	26.911	10/01/2003 4:20	19:09:59	34853.074	5.377	14.965	10/01/2003 2:17	17:06:39	8797.104	2.699
46	BOYNERIVER 12785.40			9/01/2003 9:11	26.911	10/01/2003 4:20	19:09:59	34415.293	5.146	14.965	10/01/2003 2:17	17:06:39	8773.239	2.675
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	26.613	10/01/2003 4:20	19:09:59	34413.32	5.286	14.813	10/01/2003 2:24	17:13:19	8773.077	2.762
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	26.345	10/01/2003 4:24	19:13:19	34403.59	3.989	14.587	10/01/2003 2:31	17:20:00	8771.809	1.974
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	24.49	10/01/2003 4:34	19:23:20	34386.309	5.633	13.758	10/01/2003 2:37	17:26:40	8769.043	2.939
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	23.682	10/01/2003 4:41	19:30:00	34372.52	4.815	13.416	10/01/2003 2:44	17:33:19	8767.296	2.207
51	BOYNERIVER 14304.56			9/01/2003 9:11	23.682	10/01/2003 4:41	19:30:00	34006.328	4.706	13.416	10/01/2003 2:44	17:33:19	8741.407	2.195
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	23.421	10/01/2003 4:41	19:30:00	34005.23	4.444	13.323	10/01/2003 2:44	17:33:19	8741.174	1.994
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	22.988	10/01/2003 4:41	19:30:00	33999.703	3.176	12.975	10/01/2003 2:44	17:33:19	8740.291	1.828
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	21.741	10/01/2003 4:44	19:33:19	33995.418	4.547	12.37	10/01/2003 2:50	17:39:59	8739.783	2.695
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	21.342	10/01/2003 4:47	19:36:39	33988.922	2.797	11.947	10/01/2003 2:50	17:39:59	8739.509	2.055
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	21.057	10/01/2003 4:47	19:36:39	33982.973	2.285	11.794	10/01/2003 2:50	17:39:59	8739.17	1.388
57	BOYNERIVER 16062.90			9/01/2003 9:11	21.057	10/01/2003 4:47	19:36:39	30636.791	2.105	11.794	10/01/2003 2:50	17:39:59	9142.771	1.456
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	21.012	10/01/2003 4:47	19:36:39	30630.707	2.015	11.76	10/01/2003 2:50	17:39:59	9142.295	1.359
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	19.909	10/01/2003 4:54	19:43:19	30603.256	4.53	11.213	10/01/2003 2:57	17:46:40	9139.978	2.451
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	19.035	10/01/2003 4:57	19:46:40	30584.693	4.662	10.664	10/01/2003 3:04	17:53:20	9138.398	2.55
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	17.5	10/01/2003 5:07	19:56:40	30573.613	7.085	9.767	10/01/2003 3:24	18:13:19	9137.493	4.223
62	BOYNERIVER 17722.19			9/01/2003 9:11	17.5	10/01/2003 5:07	19:56:40	4721.867	2.156	9.767	10/01/2003 3:24	18:13:19	3927.778	2.156
63	BOYNERIVER 17874.50			9/01/2003 9:11	17.497	10/01/2003 5:07	19:56:40	4700.691	2.45	9.645	10/01/2003 3:24	18:13:19	3924.955	2.45
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	17.496	10/01/2003 5:07	19:56:40	4655.781	2.196	9.557	10/01/2003 3:24	18:13:19	3918.518	2.196
65	BOYNERIVER 18184.66			9/01/2003 9:11	17.496	10/01/2003 5:07	19:56:40	28785.027	6.253	9.557	10/01/2003 3:24	18:13:19	6973.369	3.142
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	16.964	10/01/2003 5:07	19:56:40	28784.549	5.673	9.303	10/01/2003 3:24	18:13:19	6973.272	2.67
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	15.317	10/01/2003 5:11	20:00:00	28783.709	6.65	8.7	10/01/2003 3:31	18:20:00	6973.109	2.97
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	15.344	10/01/2003 5:11	20:00:00	28782.689	3.66	8.56	10/01/2003 3:31	18:20:00	6972.86	1.823
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	14.972	10/01/2003 5:11	20:00:00	28779.76	2.543	8.151	10/01/2003 3:31	18:20:00	6972.456	1.793
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	13.929	10/01/2003 5:11	20:00:00	28778.143	4.428	7.643	10/01/2003 3:31	18:20:00	6972.221	2.426
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	13.588	10/01/2003 5:14	20:03:19	28777.039	2.889	7.173	10/01/2003 3:31	18:20:00	6972.07	2.166
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	13.321	10/01/2003 5:14	20:03:19	28776.406	2.931	7.04	10/01/2003 3:31	18:20:00	6972.043	1.847
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	12.371	10/01/2003 5:14	20:03:19	28775.453	3.883	6.378	10/01/2003 3:31	18:20:00	6971.985	2.752
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	10.922	10/01/2003 5:14	20:03:19	28775.592	7.497	5.614	10/01/2003 3:31	18:20:00	6971.967	4.03
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	8.945	10/01/2003 5:14	20:03:19	28775.664	4.621	5.022	10/01/2003 3:31	18:20:00	6971.929	2.514
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.557	10/01/2003 5:14	20:03:19	28775.572	5.135	4.099	10/01/2003 3:31	18:20:00	6971.907	2.381
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	28775.494	24.036	2.42	9/01/2003 9:11	0:00:00	6971.917	5.823
78	COOMALCK 0.00	C1		9/01/2003 9:11	41.871	10/01/2003 1:00	15:49:59	185.558	1.787	38.018	9/01/2003 12:44	3:33:20	184.418	1.785
79	COOMALCK 398.20	C2		9/01/2003 9:11	41.919	10/01/2003 1:00	15:49:59	206.071	1.911	33.341	9/01/2003 12:44	3:33:20	184.949	2.203
80	COOMALCK 794.20	C3		9/01/2003 9:11	41.77	10/01/2003 1:00	15:49:59	444.373	1.587	29.867	10/01/2003 0:11	15:00:00	184.786	8.94
81	COOMALCK 1209.50	C4		9/01/2003 9:11	41.547	10/01/2003 1:00	15:49:59	608.867	1.593	26.98	10/01/2003 4:50	19:39:59	184.02	3.173
82	COOMALCK 1813.30	C5		9/01/2003 9:11	41.53	10/01/2003 0:57	15:46:39	693.055	2.99	23.43	9/01/2003 23:51	14:40:00	370.564	5.017
83	COOMALCK 2352.80	C6		9/01/2003 9:11	41.517	10/01/2003 1:04	15:53:20	965.913	1.291	23.322	9/01/2003 23:51	14:40:00	343.912	3.967
84	COOMALCK 3112.20	C7		9/01/2003 9:11	41.485	10/01/2003 0:47	15:36:39	1521.517	2.03	23.32	9/01/2003 22:17	13:06:39	611.907	6.033
85	COOMALCK 3751.30	C8		9/01/2003 9:11	41.499	10/01/2003 0:57	15:46:39	1644.256	0.936	23.32	9/01/2003 22:17	13:06:39	1122.796	2.651
86	COOMALCK 4222.50	C9		9/01/2003 9:11	41.521	10/01/2003 1:07	15:56:40	1284.166	2.461	23.319	9/01/2003 22:17	13:06:39	1004.714	2.434
87	COOMALCK 4305.00			9/01/2003 9:11	41.538	10/01/2003 0:54	15:43:20	1288.906	21.42	23.319	9/01/2003 22:17	13:06:39	987.451	20.629
88	YUNKACK 0.00	Y1		9/01/2003 9:11	36.061	10/01/2003 3:07	17:56:40	60.657	1.333	34.489	9/01/2003 11:24	2:13:20	60.541	1.332



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s
89	YUNKACK 574.20	Y2		9/01/2003 9:11	36.068	10/01/2003 3:17	18:06:39	60.458	6.38	26.859	9/01/2003 11:51	2:40:00	60.428	1.645
90	YUNKACK 948.90	Y3		9/01/2003 9:11	36.058	10/01/2003 3:24	18:13:19	83.192	1.063	22.26	9/01/2003 11:57	2:46:39	60.36	2.143
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	36.057	10/01/2003 3:20	18:09:59	140.891	1.356	19.979	10/01/2003 0:24	15:13:20	60.279	1.355
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	36.06	10/01/2003 3:20	18:09:59	274.984	1.247	19.977	10/01/2003 0:24	15:13:20	60.764	1.246
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	36.06	10/01/2003 3:20	18:09:59	506.294	1.212	19.97	10/01/2003 0:24	15:13:20	136.242	1.209
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	36.058	10/01/2003 3:20	18:09:59	651.995	41.025	19.968	10/01/2003 0:30	15:19:59	198.34	37.692
95	TUCKERGULLY 0.00			9/01/2003 9:11	43.359	10/01/2003 1:04	15:53:20	238.367	0.855	36.642	9/01/2003 13:04	3:53:19	238.052	0.856
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	43.217	10/01/2003 0:44	15:33:19	729.506	2.173	34.565	9/01/2003 13:04	3:53:19	236.166	2.174
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	43.195	10/01/2003 0:41	15:30:00	811.481	1.836	29.598	9/01/2003 13:17	4:06:40	235.966	1.836
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	43.238	10/01/2003 1:11	16:00:00	1135.773	2.357	26.377	9/01/2003 13:17	4:06:40	235.904	2.358
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	43.172	10/01/2003 0:41	15:30:00	1090.156	2.185	24.23	9/01/2003 22:11	13:00:00	236.067	2.185
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	43.338	10/01/2003 0:54	15:43:20	991.41	1.701	24.237	9/01/2003 21:51	12:40:00	234.564	1.691
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	43.159	10/01/2003 0:41	15:30:00	2287.864	2.112	24.229	9/01/2003 21:30	12:19:59	222.207	2.111
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	43.24	10/01/2003 0:54	15:43:20	3399.432	2.481	24.238	9/01/2003 22:11	13:00:00	205.434	3.715
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	43.176	10/01/2003 0:57	15:46:39	3195.607	1.789	24.228	9/01/2003 21:57	12:46:39	257.117	1.78
104	TUCKERGULLY 5765.40			9/01/2003 9:11	43.176	10/01/2003 0:57	15:46:39	3015.66	1.741	24.228	9/01/2003 21:57	12:46:39	382.483	2.457
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	43.437	10/01/2003 0:51	15:40:00	3635.365	0.182	24.229	9/01/2003 21:44	12:33:19	513.559	0.182
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	43.285	10/01/2003 0:51	15:40:00	2853.675	0.349	24.23	9/01/2003 21:51	12:40:00	612.087	0.434
107	TUCKERTRIB 0.00			9/01/2003 9:11	43.242	10/01/2003 0:47	15:36:39	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	43.238	10/01/2003 0:47	15:36:39	658.959	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.531
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	43.581	10/01/2003 1:00	15:49:59	1382.356	3.255	27.265	9/01/2003 9:11	0:00:00	17.452	8.41
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	43.18	10/01/2003 0:51	15:40:00	1195.557	1.023	24.262	9/01/2003 21:30	12:19:59	37.678	1.27
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	43.204	10/01/2003 0:54	15:43:20	1013.705	0.316	24.248	9/01/2003 21:57	12:46:39	53.08	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	43.291	10/01/2003 0:57	15:46:39	2030.363	0.652	24.241	9/01/2003 21:51	12:40:00	81.602	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	43.178	10/01/2003 0:47	15:36:39	3771.522	0.387	24.253	9/01/2003 22:04	12:53:20	107.43	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	43.176	10/01/2003 0:57	15:46:39	3474.78	6.064	24.228	9/01/2003 21:57	12:46:39	134.157	6.267
115	STATIONCK 0.00	S1		9/01/2003 9:11	34.568	10/01/2003 3:41	18:30:00	493.994	0.944	18.118	10/01/2003 1:31	16:20:00	493.732	0.943
116	STATIONCK 684.50	S2		9/01/2003 9:11	34.567	10/01/2003 3:41	18:30:00	500.407	1.125	18.117	10/01/2003 1:37	16:26:40	487.427	1.129
117	STATIONCK 1599.70	S3		9/01/2003 9:11	34.567	10/01/2003 3:44	18:33:19	1297.735	1.17	18.117	10/01/2003 1:37	16:26:40	467.472	1.161
118	STATIONCK 2431.30	S4		9/01/2003 9:11	34.566	10/01/2003 3:41	18:30:00	2047.631	0.984	18.117	10/01/2003 1:37	16:26:40	448.859	0.982
119	STATIONCK 3013.70	S5		9/01/2003 9:11	34.566	10/01/2003 3:41	18:30:00	2628.712	0.793	18.117	10/01/2003 1:31	16:20:00	503.157	0.792
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	34.565	10/01/2003 3:41	18:30:00	3262.224	1.051	18.116	10/01/2003 1:31	16:20:00	667.445	1.05
121	STATIONCK 4481.70	S7		9/01/2003 9:11	34.564	10/01/2003 3:41	18:30:00	3777.414	1.088	18.116	10/01/2003 1:37	16:26:40	857.421	1.087
122	STATIONCK 5140.80	S8		9/01/2003 9:11	34.562	10/01/2003 3:41	18:30:00	4274.641	0.388	18.116	10/01/2003 1:37	16:26:40	1068.946	0.387
123	STATIONCK 5918.90	S9		9/01/2003 9:11	34.561	10/01/2003 3:44	18:33:19	4917.117	0.142	18.116	10/01/2003 1:37	16:26:40	1339.447	0.138
124	STATIONCK 6575.50	S10		9/01/2003 9:11	34.56	10/01/2003 3:41	18:30:00	5373.351	0.251	18.116	10/01/2003 1:37	16:26:40	1504.479	0.243
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	34.559	10/01/2003 3:41	18:30:00	5603.105	0.31	18.116	10/01/2003 1:37	16:26:40	1570.147	0.296
126	STATIONCK 6954.40			9/01/2003 9:11	34.559	10/01/2003 3:41	18:30:00	32303.75	0.909	18.116	10/01/2003 1:37	16:26:40	3965.629	0.436
127	STATIONCK 7691.00	S11		9/01/2003 9:11	34.527	10/01/2003 3:41	18:30:00	32443.051	0.888	18.096	10/01/2003 1:31	16:20:00	4050.995	0.534
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.181	9/01/2003 12:44	3:33:20	217.984	1.142	34.181	9/01/2003 12:44	3:33:20	217.662	1.087
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.298	9/01/2003 12:54	3:43:20	217.191	1.137	29.298	9/01/2003 12:51	3:40:00	217.19	1.137
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.084	9/01/2003 12:57	3:46:39	217.102	1.551	27.084	9/01/2003 12:57	3:46:39	217.103	1.55
131	MACHINECK 1699.10	M4		9/01/2003 9:11	26.915	10/01/2003 4:20	19:09:59	216.761	0.91	23.586	9/01/2003 13:11	4:00:00	216.763	0.91
132	MACHINECK 2214.80	M5		9/01/2003 9:11	26.915	10/01/2003 4:20	19:09:59	216.656	2.511	21.151	9/01/2003 13:11	4:00:00	216.649	2.26
133	MACHINECK 2730.60	M6		9/01/2003 9:11	26.914	10/01/2003 4:20	19:09:59	216.628	1.51	17.541	9/01/2003 13:11	4:00:00	216.627	1.505

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
134	MACHINECK 3140.90	M7		9/01/2003 9:11	26.914	10/01/2003 4:20	19:09:59	216.61	1.953	15.53	9/01/2003 13:17	4:06:40	216.578	2.139
135	MACHINECK 3611.90	M8		9/01/2003 9:11	26.914	10/01/2003 4:20	19:09:59	216.531	1.038	14.965	10/01/2003 2:24	17:13:19	216.529	1.038
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	26.913	10/01/2003 4:20	19:09:59	303.84	1.884	14.965	10/01/2003 2:24	17:13:19	216.504	1.884
137	MACHINECK 5099.90	M10		9/01/2003 9:11	26.913	10/01/2003 4:20	19:09:59	482.195	2.284	14.965	10/01/2003 2:17	17:06:39	213.135	2.283
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	26.912	10/01/2003 4:20	19:09:59	642.883	0.938	14.965	10/01/2003 2:17	17:06:39	206.076	0.934
139	MACHINECK 6711.00	M12		9/01/2003 9:11	26.911	10/01/2003 4:20	19:09:59	780.262	1.129	14.965	10/01/2003 2:17	17:06:39	281.615	1.127
140	O'LSTATION 0.00			9/01/2003 9:11	35.302	10/01/2003 3:31	18:20:00	39781.016	1.881	18.96	10/01/2003 1:11	16:00:00	3785.774	1.83
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	35.267	10/01/2003 3:34	18:23:20	39331.941	2.533	18.901	10/01/2003 1:11	16:00:00	3776.806	2.503
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	35.136	10/01/2003 3:34	18:23:20	38085.855	4.58	18.704	10/01/2003 1:11	16:00:00	3752.162	4.241
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	34.872	10/01/2003 3:37	18:26:40	37421.117	4.36	18.457	10/01/2003 1:24	16:13:19	3740.666	4.344
144	O'LSTATION 2385.50			9/01/2003 9:11	34.637	10/01/2003 3:41	18:30:00	37079.59	4.124	18.224	10/01/2003 1:31	16:20:00	3733.95	3.259
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	34.559	10/01/2003 3:41	18:30:00	36949.379	4.727	18.116	10/01/2003 1:37	16:26:40	3731.79	4.72
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.604	9/01/2003 11:17	2:06:40	88.184	1.017	26.604	9/01/2003 11:17	2:06:40	88.025	1.015
147	WURDONGCK 616.40	W2		9/01/2003 9:11	23.684	10/01/2003 4:41	19:30:00	88.035	0.906	21.383	9/01/2003 11:51	2:40:00	88.003	0.906
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	23.683	10/01/2003 4:41	19:30:00	88.13	0.909	16.266	9/01/2003 11:57	2:46:39	88.098	1.504
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	23.683	10/01/2003 4:41	19:30:00	117.058	0.764	13.748	9/01/2003 12:30	3:19:59	87.072	0.764
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	23.683	10/01/2003 4:41	19:30:00	301.321	0.753	13.417	10/01/2003 2:44	17:33:19	87.118	0.948
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	23.683	10/01/2003 4:41	19:30:00	764.461	0.372	13.417	10/01/2003 2:44	17:33:19	201.844	0.367
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	23.682	10/01/2003 4:41	19:30:00	1198.926	0.671	13.416	10/01/2003 2:44	17:33:19	426.029	0.67
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	28.069	10/01/2003 4:07	18:56:40	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	28.07	10/01/2003 4:11	19:00:00	51.793	3.42	16.243	9/01/2003 9:11	0:00:00	29.815	6.23
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	28.069	10/01/2003 4:11	19:00:00	158.181	0.144	15.592	10/01/2003 2:11	17:00:00	39.493	0.229
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	28.069	10/01/2003 4:11	19:00:00	260.265	0.452	15.592	10/01/2003 2:17	17:06:39	43.434	0.416
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	28.069	10/01/2003 4:11	19:00:00	329.085	0.589	15.592	10/01/2003 2:11	17:00:00	77.061	17.742
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	28.068	10/01/2003 4:11	19:00:00	399.677	2.993	15.591	10/01/2003 2:11	17:00:00	121.816	2.992
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	29.109	10/01/2003 4:01	18:50:00	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	29.108	10/01/2003 4:01	18:50:00	73.57	0.402	16.111	10/01/2003 2:04	16:53:20	36.308	10.569
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	29.108	10/01/2003 4:01	18:50:00	153.546	0.641	16.097	10/01/2003 1:50	16:39:59	52.506	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	29.108	10/01/2003 4:04	18:53:20	276.508	0.519	16.096	10/01/2003 2:04	16:53:20	60.465	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	29.108	10/01/2003 4:04	18:53:20	437.931	1.329	16.096	10/01/2003 1:57	16:46:40	111.797	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	29.108	10/01/2003 4:04	18:53:20	24520.938	7.314	16.096	10/01/2003 1:57	16:46:40	3583.697	2.685
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	23.822	10/01/2003 4:11	19:00:00	24519.359	9.696	13.877	10/01/2003 1:57	16:46:40	3583.225	3.618
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	21.929	10/01/2003 4:34	19:23:20	24511.697	4.574	12.986	10/01/2003 2:17	17:06:39	3582.271	1.854
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	21.138	10/01/2003 4:44	19:33:19	24461.654	3.359	11.958	10/01/2003 2:44	17:33:19	3579.727	2.857
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	21.056	10/01/2003 4:47	19:36:39	24413.555	1.832	11.794	10/01/2003 2:50	17:39:59	3577.354	0.888
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	21.056	10/01/2003 4:47	19:36:39	2816.953	0.595	11.794	10/01/2003 2:50	17:39:59	929.985	0.594
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	21.057	10/01/2003 4:47	19:36:39	2743.693	0.82	11.794	10/01/2003 2:50	17:39:59	915.149	0.817
171	O'LAND01 0.00			9/01/2003 9:11	21.056	10/01/2003 4:47	19:36:39	27647.557	3.121	11.794	10/01/2003 2:50	17:39:59	3170.436	1.201
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	20.273	10/01/2003 4:50	19:39:59	27633.238	3.354	11.441	10/01/2003 2:57	17:46:40	3169.829	1.292
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	19.721	10/01/2003 4:54	19:43:19	27608.707	2.737	10.903	10/01/2003 3:04	17:53:20	3168.313	1.331
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	19.513	10/01/2003 4:57	19:46:40	27592.502	2.361	10.576	10/01/2003 3:11	18:00:00	3167.003	1.333
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	19.201	10/01/2003 4:57	19:46:40	27558.551	2.021	10.253	10/01/2003 3:17	18:06:39	3164.32	0.815
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	18.965	10/01/2003 5:01	19:50:00	27526.998	1.844	10.096	10/01/2003 3:24	18:13:19	3161.973	0.688
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	18.317	10/01/2003 5:04	19:53:20	27503.314	3.34	9.784	10/01/2003 3:24	18:13:19	3161.006	1.936
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	18.318	10/01/2003 5:04	19:53:20	57.374	0.312	9.784	10/01/2003 3:24	18:13:19	57.337	0.312

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 6hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	6hr - PMF Failure					6hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
179	CATTLECK 743.60	CC2		9/01/2003 9:11	18.318	10/01/2003 5:04	19:53:20	172.944	0.87	9.784	10/01/2003 3:24	18:13:19	55.018	0.869
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	18.318	10/01/2003 5:04	19:53:20	305.455	0.775	9.784	10/01/2003 3:24	18:13:19	67.078	0.775
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	18.317	10/01/2003 5:04	19:53:20	449.543	0.175	9.784	10/01/2003 3:24	18:13:19	121.327	0.175
182	CATTLECK 1994.43			9/01/2003 9:11	18.317	10/01/2003 5:04	19:53:20	27406.965	2.282	9.784	10/01/2003 3:24	18:13:19	3159.743	0.719
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	17.944	10/01/2003 5:04	19:53:20	27404.971	3.301	9.678	10/01/2003 3:24	18:13:19	3159.799	1.502
184	CATTLECK 2335.00			9/01/2003 9:11	17.496	10/01/2003 5:07	19:56:40	27401.475	3.507	9.557	10/01/2003 3:24	18:13:19	3159.869	1.528
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	17.5	10/01/2003 5:07	19:56:40	29266.504	1.934	9.767	10/01/2003 3:24	18:13:19	5314.738	1.921
186	STHTREES 851.80	ST2		9/01/2003 9:11	16.737	10/01/2003 5:14	20:03:19	29118.934	1.726	8.587	10/01/2003 3:50	18:39:59	5302.991	1.116
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	16.485	10/01/2003 5:17	20:06:39	29003.258	1.749	8.287	10/01/2003 4:04	18:53:20	5290.696	1.417
188	STHTREES 2361.30	ST4		9/01/2003 9:11	16.264	10/01/2003 5:20	20:09:59	28893.084	1.541	8.048	10/01/2003 4:11	19:00:00	5277.688	0.859
189	STHTREES 2829.50	ST5		9/01/2003 9:11	16.217	10/01/2003 5:20	20:09:59	28825.563	1.125	7.969	10/01/2003 4:11	19:00:00	5269.219	0.687
190	STHTREES 3773.50	ST6		9/01/2003 9:11	16.027	10/01/2003 5:20	20:09:59	28722.994	1.319	7.826	10/01/2003 4:17	19:06:39	5254.992	0.654
191	STHTREES 4171.60	ST7		9/01/2003 9:11	15.851	10/01/2003 5:24	20:13:19	28699.252	1.81	7.751	10/01/2003 4:17	19:06:39	5251.243	0.788
192	STHTREES 4595.40	ST8		9/01/2003 9:11	15.533	10/01/2003 5:24	20:13:19	28683.467	2.441	7.607	10/01/2003 4:17	19:06:39	5248.656	1.148
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	15.2	10/01/2003 5:27	20:16:40	28665.076	2.364	7.4	10/01/2003 4:24	19:13:19	5246.389	1.187
194	STHTREES 5122.39			9/01/2003 9:11	15.2	10/01/2003 5:27	20:16:40	28619.063	2.345	7.4	10/01/2003 4:24	19:13:19	5241.656	1.185
195	STHTREES 5493.40	ST9		9/01/2003 9:11	14.787	10/01/2003 5:27	20:16:40	28612.059	2.831	7.249	10/01/2003 4:24	19:13:19	5240.671	1.243
196	STHTREES 6390.90	ST10		9/01/2003 9:11	12.748	10/01/2003 5:31	20:20:00	28599.842	5.898	6.235	10/01/2003 4:37	19:26:40	5238.793	3.547
197	STHTREES 7658.80	ST11		9/01/2003 9:11	10.768	10/01/2003 5:50	20:39:59	28551.469	1.602	5.046	10/01/2003 5:11	20:00:00	5228.553	0.645
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	10.497	10/01/2003 5:50	20:39:59	28516.441	1.713	4.937	10/01/2003 5:17	20:06:39	5220.936	0.721
199	STHTREES 8251.05			9/01/2003 9:11	10.497	10/01/2003 5:50	20:39:59	28442.559	1.7	4.937	10/01/2003 5:17	20:06:39	5206.628	0.717
200	STHTREES 9287.10	ST12		9/01/2003 9:11	9.823	10/01/2003 5:54	20:43:19	28418.121	2.027	4.664	10/01/2003 5:24	20:13:19	5199.644	0.893
201	STHTREES 11258.10	ST13		9/01/2003 9:11	8.377	10/01/2003 6:04	20:53:20	28378.885	1.761	4.051	10/01/2003 5:37	20:26:40	5187.125	0.777
202	STHTREES 12688.10	ST14		9/01/2003 9:11	7.158	10/01/2003 6:07	20:56:40	28352.406	1.756	3.571	10/01/2003 5:50	20:39:59	5178.841	0.813
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.803	10/01/2003 6:14	21:03:19	28338.9	1.305	3.172	10/01/2003 6:04	20:53:20	5167.451	0.486
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	28336.461	5.264	2.42	9/01/2003 9:11	0:00:00	5162.74	0.959
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	15.201	10/01/2003 5:27	20:16:40	102.493	1.119	10.472	9/01/2003 12:11	3:00:00	102.487	1.117
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	15.201	10/01/2003 5:27	20:16:40	102.219	1.776	7.4	10/01/2003 4:24	19:13:19	102.162	2.716
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	15.201	10/01/2003 5:27	20:16:40	102.005	0.356	7.4	10/01/2003 4:24	19:13:19	101.929	0.356
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	15.201	10/01/2003 5:27	20:16:40	154.934	0.202	7.4	10/01/2003 4:24	19:13:19	100.361	0.202
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	15.2	10/01/2003 5:27	20:16:40	229.704	0.105	7.4	10/01/2003 4:24	19:13:19	98.6	0.106
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.072	9/01/2003 12:17	3:06:40	148.553	0.961	13.072	9/01/2003 12:17	3:06:40	148.506	0.961
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	10.498	10/01/2003 5:50	20:39:59	147.38	3.758	5.735	9/01/2003 12:24	3:13:20	147.323	5.958
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	10.498	10/01/2003 5:50	20:39:59	146.192	0.225	4.937	10/01/2003 5:17	20:06:39	146.164	0.225
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	10.498	10/01/2003 5:50	20:39:59	219.407	0.085	4.937	10/01/2003 5:17	20:06:39	142.805	0.085
214	ELEVENMILECK 3887.00			9/01/2003 9:11	10.497	10/01/2003 5:50	20:39:59	305.59	0.084	4.937	10/01/2003 5:17	20:06:39	140.203	0.084
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	36.433	10/01/2003 3:17	18:06:39	75.981	2.273	20.789	10/01/2003 0:04	14:53:20	75.971	2.391
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	36.432	10/01/2003 3:11	18:00:00	350.932	1.917	20.788	10/01/2003 0:04	14:53:20	162.749	11.502
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	36.43	10/01/2003 3:14	18:03:19	1225.098	0.157	20.785	10/01/2003 0:11	15:00:00	597.61	0.154
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	36.43	10/01/2003 3:14	18:03:19	1326.041	0.15	20.785	10/01/2003 0:11	15:00:00	640.147	0.146
219	SPELLWAY 0.00			9/01/2003 9:11	56.339	9/01/2003 20:07	10:56:40	13169.642	1.13	56.337	9/01/2003 20:11	11:00:00	12605.188	0.403
220	SPELLWAY 300.00			9/01/2003 9:11	49.6	10/01/2003 0:24	15:13:20	12585.88	0.538	26.76	9/01/2003 21:11	12:00:00	12584.453	0.542

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55 - 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF - Failure					12hr - PMF - No failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m <sup>3</sup> /s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
1	BOYNERIVER 0.00			9/01/2003 9:11	57.841	10/01/2003 0:44	15:33:19	29481.104	1.032	57.836	10/01/2003 0:51	15:40:00	29489.152	1.033
2	BOYNERIVER 100.00			9/01/2003 9:11	57.833	10/01/2003 0:36	15:25:00	120778.961	5.347	57.828	10/01/2003 0:37	15:26:40	17967.281	0.725
3	BOYNERIVER 100.00			9/01/2003 9:11	57.833	10/01/2003 0:36	15:25:00	107223.211	4.747	57.828	10/01/2003 0:37	15:26:40	3401.431	0.137
4	BOYNERIVER 150.00			9/01/2003 9:11	57.832	10/01/2003 0:36	15:25:00	106156.406	6.486	57.827	10/01/2003 0:37	15:26:40	3400.415	0.179
5	BOYNERIVER 350.00			9/01/2003 9:11	50.619	10/01/2003 4:37	19:26:40	102951.703	6.596	29.441	10/01/2003 1:17	16:06:39	3402.565	1.25
6	BOYNERIVER 420.00			9/01/2003 9:11	50.711	10/01/2003 4:37	19:26:40	102349.586	6.144	29.438	10/01/2003 1:17	16:06:39	3402.931	1.102
7	BOYNERIVER 420.00			9/01/2003 9:11	50.711	10/01/2003 4:37	19:26:40	101584.531	6.091	29.438	10/01/2003 1:17	16:06:39	17947.73	2.534
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	50.662	10/01/2003 4:37	19:26:40	100941.508	4.613	28.923	10/01/2003 1:24	16:13:19	17945.377	2.754
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	47.829	10/01/2003 4:37	19:26:40	100653.406	7.998	27.994	10/01/2003 1:37	16:26:40	17939.889	3.078
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	44.706	10/01/2003 5:02	19:51:39	100427.508	9.343	26.837	10/01/2003 1:57	16:46:40	17933.582	3.455
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	44.394	10/01/2003 5:11	20:00:00	100334.055	8.403	26.612	10/01/2003 2:04	16:53:20	17931.193	3.011
12	BOYNERIVER 2182.33			9/01/2003 9:11	44.394	10/01/2003 5:11	20:00:00	92624.219	7.296	26.612	10/01/2003 2:04	16:53:20	17862.301	2.989
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	43.126	10/01/2003 5:11	20:00:00	92553	7.449	26.078	10/01/2003 2:11	17:00:00	17859.059	3.137
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	42.832	10/01/2003 5:11	20:00:00	92280.375	3.879	25.638	10/01/2003 2:24	17:13:19	17848.367	1.711
15	BOYNERIVER 3120.26			9/01/2003 9:11	42.832	10/01/2003 5:11	20:00:00	91287.391	3.758	25.638	10/01/2003 2:24	17:13:19	17807.803	1.703
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	42.647	10/01/2003 5:11	20:00:00	91203.367	3.587	25.522	10/01/2003 2:24	17:13:19	17804.053	1.697
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	40.785	10/01/2003 5:35	20:24:59	90981.672	5.704	24.815	10/01/2003 2:37	17:26:40	17791.264	2.413
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	38.14	10/01/2003 7:07	21:56:40	90811.336	8.317	23.378	10/01/2003 3:24	18:13:19	17777.668	3.799
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	37.93	10/01/2003 7:16	22:05:00	90497.484	4.715	22.941	10/01/2003 3:44	18:33:19	17757.322	1.809
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	37.93	10/01/2003 7:16	22:05:00	87419.781	4.47	22.941	10/01/2003 3:44	18:33:19	17609.93	1.779
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	37.886	10/01/2003 7:16	22:05:00	86997.578	3.136	22.675	10/01/2003 3:50	18:39:59	17588.373	2.469
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	37.593	10/01/2003 7:24	22:13:19	86071.297	2.91	22.257	10/01/2003 4:04	18:53:20	17542.996	1.952
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	37.593	10/01/2003 7:24	22:13:19	84382.688	2.823	22.257	10/01/2003 4:04	18:53:20	17481.854	1.915
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	37.273	10/01/2003 7:24	22:13:19	83539.656	3.34	21.753	10/01/2003 4:31	19:20:00	17448.934	2.196
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	36.863	10/01/2003 7:32	22:21:39	82439.313	3.835	21.284	10/01/2003 4:37	19:26:40	17411.145	2.405
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	36.863	10/01/2003 7:32	22:21:39	38889.176	2.351	21.284	10/01/2003 4:37	19:26:40	11056.531	2.351
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	36.806	10/01/2003 7:41	22:30:00	38215.523	1.943	21.174	10/01/2003 4:50	19:39:59	11023.308	1.905
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	36.799	10/01/2003 7:41	22:30:00	37761.363	1.487	21.152	10/01/2003 4:50	19:39:59	10999.039	1.287
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	36.606	10/01/2003 7:41	22:30:00	37393.852	3.092	21.016	10/01/2003 4:50	19:39:59	10976.366	1.866
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	36.38	10/01/2003 7:41	22:30:00	37148.25	3.783	20.831	10/01/2003 4:57	19:46:40	10962.543	2.066
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	36.44	10/01/2003 7:41	22:30:00	36862.141	2.528	20.771	10/01/2003 4:57	19:46:40	10949.626	1.901
32	BOYNERIVER 10401.00			9/01/2003 9:11	36.22	10/01/2003 7:41	22:30:00	36597.797	3.517	20.64	10/01/2003 4:57	19:46:40	10955.782	1.963
33	BOYNERIVER 10402.80			9/01/2003 9:11	36.221	10/01/2003 7:49	22:38:20	36596.617	3.518	20.641	10/01/2003 4:57	19:46:40	10955.982	1.964
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	36.23	10/01/2003 7:41	22:30:00	36598.902	3.518	20.648	10/01/2003 4:37	19:26:40	10954.672	1.964
35	BOYNERIVER 10414.00			9/01/2003 9:11	36.216	10/01/2003 7:49	22:38:20	36599.461	3.517	20.637	10/01/2003 5:04	19:53:20	10954.24	1.963
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	36.202	10/01/2003 7:49	22:38:20	36520.801	3.204	20.592	10/01/2003 5:04	19:53:20	10930.912	1.854
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	36.069	10/01/2003 7:49	22:38:20	36413.707	3.768	20.496	10/01/2003 5:04	19:53:20	10923.233	2.312
38	BOYNERIVER 10832.90			9/01/2003 9:11	36.069	10/01/2003 7:49	22:38:20	66075.539	5.531	20.496	10/01/2003 5:04	19:53:20	16865.938	2.718
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	33.564	10/01/2003 7:49	22:38:20	66061.094	8.499	19.549	10/01/2003 5:17	20:06:39	16864.549	4.076
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	30.286	10/01/2003 8:05	22:54:59	66040.648	9.031	18.106	10/01/2003 5:24	20:13:19	16863.516	4.135
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	30.286	10/01/2003 8:05	22:54:59	38621.73	5.348	18.106	10/01/2003 5:24	20:13:19	11395.213	2.803
42	BOYNERIVER 12303.00			9/01/2003 9:11	29.186	10/01/2003 8:14	23:03:19	38599.805	5.664	17.534	10/01/2003 5:44	20:33:19	11393.513	2.846
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	29.186	10/01/2003 8:14	23:03:19	38264.789	5.536	17.534	10/01/2003 5:44	20:33:19	11379.477	2.833

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55 - 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF - Failure					12hr - PMF - No failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	28.759	10/01/2003 8:14	23:03:19	38258.762	5.663		17.325	10/01/2003 5:44	20:33:19	11378.878	2.859
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	27.98	10/01/2003 8:22	23:11:40	38243.758	5.584		16.786	10/01/2003 5:50	20:39:59	11377.415	3.029
46	BOYNERIVER 12785.40			9/01/2003 9:11	27.98	10/01/2003 8:22	23:11:40	37809.816	5.393		16.786	10/01/2003 5:50	20:39:59	11350.501	3.008
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	27.674	10/01/2003 8:22	23:11:40	37807.531	5.522		16.601	10/01/2003 5:50	20:39:59	11350.301	3.107
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	27.411	10/01/2003 8:31	23:20:00	37796.246	4.193		16.322	10/01/2003 5:57	20:46:40	11349.195	2.239
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	25.435	10/01/2003 8:39	23:28:19	37779.227	5.907		15.335	10/01/2003 6:04	20:53:20	11347.32	3.283
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	24.577	10/01/2003 8:39	23:28:19	37767.871	5.081		14.954	10/01/2003 6:11	21:00:00	11346.083	2.544
51	BOYNERIVER 14304.56			9/01/2003 9:11	24.577	10/01/2003 8:39	23:28:19	37415.109	4.982		14.954	10/01/2003 6:11	21:00:00	11318.398	2.533
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	24.298	10/01/2003 8:47	23:36:39	37413.609	4.715		14.847	10/01/2003 6:11	21:00:00	11318.207	2.321
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	23.884	10/01/2003 8:47	23:36:39	37410.039	3.317		14.476	10/01/2003 6:11	21:00:00	11317.826	2.032
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	22.571	10/01/2003 8:47	23:36:39	37407.711	4.748		13.795	10/01/2003 6:17	21:06:39	11317.622	2.962
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	22.21	10/01/2003 8:47	23:36:39	37404.398	2.873		13.364	10/01/2003 6:17	21:06:39	11317.179	2.183
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	21.919	10/01/2003 8:47	23:36:39	37400.199	2.378		13.201	10/01/2003 6:17	21:06:39	11316.749	1.513
57	BOYNERIVER 16062.90			9/01/2003 9:11	21.919	10/01/2003 8:47	23:36:39	33195.668	2.148		13.201	10/01/2003 6:17	21:06:39	11596.569	1.554
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	21.876	10/01/2003 8:47	23:36:39	33191.137	2.06		13.168	10/01/2003 6:17	21:06:39	11596.2	1.45
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	20.721	10/01/2003 8:56	23:45:00	33168.051	4.7		12.553	10/01/2003 6:24	21:13:19	11594.203	2.756
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	19.821	10/01/2003 8:56	23:45:00	33151.113	4.829		11.95	10/01/2003 6:31	21:20:00	11592.754	2.858
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	18.232	10/01/2003 9:04	23:53:20	33140.008	7.237		10.931	10/01/2003 6:44	21:33:19	11591.907	4.676
62	BOYNERIVER 17722.19			9/01/2003 9:11	18.232	10/01/2003 9:04	23:53:20	4423.074	2.144		10.931	10/01/2003 6:44	21:33:19	4014.931	2.145
63	BOYNERIVER 17874.50			9/01/2003 9:11	18.231	10/01/2003 9:04	23:53:20	4404.573	2.452		10.833	10/01/2003 6:44	21:33:19	4010.863	2.452
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	18.23	10/01/2003 9:04	23:53:20	4364.651	2.183		10.775	10/01/2003 6:44	21:33:19	4001.665	2.182
65	BOYNERIVER 18184.66			9/01/2003 9:11	18.23	10/01/2003 9:04	23:53:20	31934.563	6.615		10.775	10/01/2003 6:44	21:33:19	9080.61	3.544
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	17.658	10/01/2003 9:12	24:01:40	31933.938	6.029		10.483	10/01/2003 6:50	21:39:59	9080.537	3.037
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	15.88	10/01/2003 9:12	24:01:40	31932.914	7.088		9.758	10/01/2003 6:50	21:39:59	9080.422	3.437
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	15.917	10/01/2003 9:12	24:01:40	31931.037	3.863		9.629	10/01/2003 6:50	21:39:59	9080.247	2.062
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	15.551	10/01/2003 9:12	24:01:40	31927.33	2.639		9.206	10/01/2003 6:50	21:39:59	9079.758	1.896
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	14.436	10/01/2003 9:12	24:01:40	31927.08	4.671		8.622	10/01/2003 6:50	21:39:59	9079.678	2.693
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	14.141	10/01/2003 9:12	24:01:40	31926.426	2.902		8.13	10/01/2003 6:57	21:46:40	9079.553	2.303
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	13.839	10/01/2003 9:12	24:01:40	31926.078	3.073		7.991	10/01/2003 6:57	21:46:40	9079.473	1.97
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	12.858	10/01/2003 9:12	24:01:40	31925.48	4.008		7.253	10/01/2003 6:57	21:46:40	9079.369	2.966
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	11.398	10/01/2003 9:12	24:01:40	31925.236	7.594		6.263	10/01/2003 6:57	21:46:40	9079.386	4.792
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	9.308	10/01/2003 9:12	24:01:40	31924.734	4.824		5.521	10/01/2003 6:57	21:46:40	9079.396	2.848
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.817	10/01/2003 9:12	24:01:40	31924.059	5.409		4.272	10/01/2003 6:57	21:46:40	9079.395	2.922
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	31923.715	26.665		2.42	9/01/2003 9:11	0:00:00	9079.39	7.584
78	COOMALCK 0.00	C1		9/01/2003 9:11	42.867	10/01/2003 5:02	19:51:39	190.989	1.8		38.051	9/01/2003 12:44	3:33:20	189.639	1.797
79	COOMALCK 398.20	C2		9/01/2003 9:11	42.838	10/01/2003 5:02	19:51:39	188.843	1.931		33.375	9/01/2003 12:44	3:33:20	191.091	2.162
80	COOMALCK 794.20	C3		9/01/2003 9:11	42.83	10/01/2003 5:27	20:16:40	255.936	1.601		29.675	9/01/2003 12:44	3:33:20	190.969	2.174
81	COOMALCK 1209.50	C4		9/01/2003 9:11	42.83	10/01/2003 5:27	20:16:40	459.352	1.611		26.612	9/01/2003 12:51	3:40:00	189.645	1.677
82	COOMALCK 1813.30	C5		9/01/2003 9:11	42.827	10/01/2003 5:11	20:00:00	841.027	1.976		25.638	10/01/2003 2:24	17:13:19	188.906	5.121
83	COOMALCK 2352.80	C6		9/01/2003 9:11	42.83	10/01/2003 5:19	20:08:20	920.721	1.282		25.639	10/01/2003 2:24	17:13:19	190.797	1.284
84	COOMALCK 3112.20	C7		9/01/2003 9:11	42.83	10/01/2003 5:11	20:00:00	1115.827	2.053		25.638	10/01/2003 2:24	17:13:19	209.045	2.052
85	COOMALCK 3751.30	C8		9/01/2003 9:11	42.83	10/01/2003 5:11	20:00:00	1557.06	0.952		25.638	10/01/2003 2:24	17:13:19	373.849	0.955
86	COOMALCK 4222.50	C9		9/01/2003 9:11	42.832	10/01/2003 5:11	20:00:00	1978.582	2.485		25.638	10/01/2003 2:24	17:13:19	477.791	2.451
87	COOMALCK 4305.00			9/01/2003 9:11	42.832	10/01/2003 5:11	20:00:00	1994.963	23.511		25.638	10/01/2003 2:24	17:13:19	485.485	22.984
88	YUNKACK 0.00	Y1		9/01/2003 9:11	37.625	10/01/2003 7:07	21:56:40	59.545	1.321		34.469	9/01/2003 12:17	3:06:40	59.783	1.325

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55 - 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF - Failure					12hr - PMF - No failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
89	YUNKACK 574.20	Y2		9/01/2003 9:11	37.595	10/01/2003 7:32	22:21:39	92.409	5.219		26.836	9/01/2003 12:24	3:13:20	59.169	6.347
90	YUNKACK 948.90	Y3		9/01/2003 9:11	37.602	10/01/2003 7:32	22:21:39	236.725	1.053		22.258	10/01/2003 4:24	19:13:19	59.076	1.053
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	37.604	10/01/2003 7:24	22:13:19	353.815	1.335		22.258	10/01/2003 4:17	19:06:39	58.961	9.471
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	37.603	10/01/2003 7:24	22:13:19	385.762	1.244		22.257	10/01/2003 4:17	19:06:39	94.344	1.23
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	37.596	10/01/2003 7:24	22:13:19	581.47	1.219		22.257	10/01/2003 4:04	18:53:20	179.406	1.215
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	37.593	10/01/2003 7:24	22:13:19	848.407	38.456		22.257	10/01/2003 4:04	18:53:20	259.466	36.717
95	TUCKERGULLY 0.00			9/01/2003 9:11	44.445	10/01/2003 5:02	19:51:39	243.258	0.839		36.659	9/01/2003 12:51	3:40:00	242.727	0.83
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	44.432	10/01/2003 5:02	19:51:39	452.358	2.179		34.578	9/01/2003 12:57	3:46:39	238.063	2.179
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	44.413	10/01/2003 4:54	19:43:19	582.903	1.841		29.607	9/01/2003 13:04	3:53:19	237.441	1.841
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	44.406	10/01/2003 5:11	20:00:00	1226.158	2.502		26.613	10/01/2003 2:11	17:00:00	237.149	2.432
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	44.406	10/01/2003 5:11	20:00:00	1589.299	2.095		26.612	10/01/2003 2:11	17:00:00	237.128	2.093
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	44.404	10/01/2003 5:11	20:00:00	1340.557	1.662		26.612	10/01/2003 2:04	16:53:20	236.698	1.656
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	44.399	10/01/2003 5:11	20:00:00	1391.367	2.139		26.612	10/01/2003 2:04	16:53:20	232.56	2.141
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	44.397	10/01/2003 5:11	20:00:00	3217.277	2.489		26.612	10/01/2003 1:57	16:46:40	265.582	3.638
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	44.391	10/01/2003 5:11	20:00:00	4052.141	2.098		26.612	10/01/2003 2:04	16:53:20	345.259	3.581
104	TUCKERGULLY 5765.40			9/01/2003 9:11	44.391	10/01/2003 5:11	20:00:00	3817.868	2.078		26.612	10/01/2003 2:04	16:53:20	484.697	4.14
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	44.392	10/01/2003 5:11	20:00:00	3536.511	0.253		26.612	10/01/2003 2:04	16:53:20	652.461	0.365
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	44.394	10/01/2003 5:11	20:00:00	8819.828	0.516		26.612	10/01/2003 2:04	16:53:20	772.205	0.868
107	TUCKERTRIB 0.00			9/01/2003 9:11	44.454	10/01/2003 5:02	19:51:39	2.5	0.274		30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	44.467	10/01/2003 5:02	19:51:39	164.127	1.045		30.261	9/01/2003 9:11	0:00:00	2.5	0.595
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	44.447	10/01/2003 5:02	19:51:39	630.598	3.25		27.306	10/01/2003 8:31	23:20:00	14.594	6.349
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	44.434	10/01/2003 5:02	19:51:39	681.024	1.023		26.613	10/01/2003 2:04	16:53:20	33.449	1.27
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	44.423	10/01/2003 5:02	19:51:39	2090.151	0.316		26.612	10/01/2003 1:57	16:46:40	56.651	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	44.428	10/01/2003 5:02	19:51:39	2113.919	0.652		26.613	10/01/2003 2:04	16:53:20	96.459	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	44.401	10/01/2003 5:11	20:00:00	2516.443	0.73		26.612	10/01/2003 2:04	16:53:20	141.91	0.435
114	TUCKERTRIB 3377.00			9/01/2003 9:11	44.391	10/01/2003 5:11	20:00:00	2042.843	6.064		26.612	10/01/2003 2:04	16:53:20	177.908	8.148
115	STATIONCK 0.00	S1		9/01/2003 9:11	36.108	10/01/2003 7:49	22:38:20	474.461	0.84		20.524	10/01/2003 5:04	19:53:20	475.025	0.861
116	STATIONCK 684.50	S2		9/01/2003 9:11	36.108	10/01/2003 7:49	22:38:20	520.739	1.126		20.524	10/01/2003 5:11	20:00:00	465.818	1.117
117	STATIONCK 1599.70	S3		9/01/2003 9:11	36.108	10/01/2003 7:41	22:30:00	1358.606	1.132		20.524	10/01/2003 5:11	20:00:00	441.911	1.047
118	STATIONCK 2431.30	S4		9/01/2003 9:11	36.108	10/01/2003 7:49	22:38:20	2170.381	1.004		20.523	10/01/2003 5:04	19:53:20	524.931	0.975
119	STATIONCK 3013.70	S5		9/01/2003 9:11	36.107	10/01/2003 7:49	22:38:20	2791.141	0.788		20.523	10/01/2003 5:04	19:53:20	675.543	0.776
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	36.106	10/01/2003 7:49	22:38:20	3451.53	0.925		20.523	10/01/2003 5:04	19:53:20	884.93	0.947
121	STATIONCK 4481.70	S7		9/01/2003 9:11	36.106	10/01/2003 7:49	22:38:20	3984.83	1.082		20.523	10/01/2003 5:04	19:53:20	1119.88	1.081
122	STATIONCK 5140.80	S8		9/01/2003 9:11	36.106	10/01/2003 7:49	22:38:20	4498.549	0.417		20.523	10/01/2003 5:04	19:53:20	1379.295	0.416
123	STATIONCK 5918.90	S9		9/01/2003 9:11	36.105	10/01/2003 7:49	22:38:20	5162.75	0.21		20.523	10/01/2003 5:04	19:53:20	1722.446	0.209
124	STATIONCK 6575.50	S10		9/01/2003 9:11	36.104	10/01/2003 7:49	22:38:20	5640.234	0.249		20.523	10/01/2003 5:04	19:53:20	1933.693	0.278
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	36.102	10/01/2003 7:49	22:38:20	5882.802	0.308		20.522	10/01/2003 5:04	19:53:20	2018.925	0.337
126	STATIONCK 6954.40			9/01/2003 9:11	36.102	10/01/2003 7:49	22:38:20	36178.539	0.934		20.522	10/01/2003 5:04	19:53:20	6341.598	0.516
127	STATIONCK 7691.00	S11		9/01/2003 9:11	36.069	10/01/2003 7:49	22:38:20	36288.848	0.914		20.496	10/01/2003 5:04	19:53:20	6360.095	0.61
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.199	9/01/2003 12:39	3:28:20	222.729	1.106		34.203	9/01/2003 12:44	3:33:20	222.058	1.093
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.313	9/01/2003 12:47	3:36:40	221.04	1.144		29.313	9/01/2003 12:51	3:40:00	220.833	1.146
130	MACHINECK 1186.80	M3		9/01/2003 9:11	27.986	10/01/2003 8:22	23:11:40	220.379	1.554		27.093	9/01/2003 12:51	3:40:00	220.712	1.553
131	MACHINECK 1699.10	M4		9/01/2003 9:11	27.984	10/01/2003 8:22	23:11:40	219.698	0.917		23.598	9/01/2003 12:57	3:46:39	219.684	0.917
132	MACHINECK 2214.80	M5		9/01/2003 9:11	27.984	10/01/2003 8:22	23:11:40	219.202	2.262		21.158	9/01/2003 13:04	3:53:19	219.216	2.86
133	MACHINECK 2730.60	M6		9/01/2003 9:11	27.984	10/01/2003 8:22	23:11:40	219.198	1.505		17.549	9/01/2003 13:04	3:53:19	219.197	1.447

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55 - 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF - Failure					12hr - PMF - No failure				
					Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s	Maximum		Time to Max WL (hrs:min:sec)	Maximum Discharge m**3/s	Maximum Velocity m/s
					WL (m)	Time				WL (m)	Time			
134	MACHINECK 3140.90	M7		9/01/2003 9:11	27.984	10/01/2003 8:22	23:11:40	218.938	1.85	16.787	10/01/2003 5:50	20:39:59	218.922	1.847
135	MACHINECK 3611.90	M8		9/01/2003 9:11	27.983	10/01/2003 8:22	23:11:40	218.761	1.041	16.786	10/01/2003 5:44	20:33:19	218.786	1.041
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	27.982	10/01/2003 8:22	23:11:40	323.655	1.861	16.786	10/01/2003 5:50	20:39:59	217.68	19.449
137	MACHINECK 5099.90	M10		9/01/2003 9:11	27.982	10/01/2003 8:22	23:11:40	504.206	2.285	16.786	10/01/2003 5:44	20:33:19	217.016	2.288
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	27.982	10/01/2003 8:22	23:11:40	669.117	0.912	16.786	10/01/2003 5:44	20:33:19	259.207	0.897
139	MACHINECK 6711.00	M12		9/01/2003 9:11	27.98	10/01/2003 8:22	23:11:40	809.91	1.145	16.786	10/01/2003 5:50	20:39:59	347.635	1.15
140	O'LSTATION 0.00			9/01/2003 9:11	36.863	10/01/2003 7:32	22:21:39	43775.387	1.846	21.284	10/01/2003 4:37	19:26:40	6434.53	1.798
141	O'LSTATION 304.10	O2-1		9/01/2003 9:11	36.829	10/01/2003 7:32	22:21:39	43328.52	2.026	21.23	10/01/2003 4:44	19:33:19	6422.063	2.254
142	O'LSTATION 1252.20	O2-2		9/01/2003 9:11	36.694	10/01/2003 7:32	22:21:39	42028.871	4.363	21.059	10/01/2003 4:50	19:39:59	6388.169	4.181
143	O'LSTATION 1924.60	O2-3		9/01/2003 9:11	36.417	10/01/2003 7:49	22:38:20	41409.91	4.1	20.834	10/01/2003 4:57	19:46:40	6371.894	4.298
144	O'LSTATION 2385.50			9/01/2003 9:11	36.179	10/01/2003 7:49	22:38:20	41090.543	4.036	20.618	10/01/2003 5:04	19:53:20	6363.036	3.069
145	O'LSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	36.102	10/01/2003 7:49	22:38:20	40953.18	4.174	20.522	10/01/2003 5:04	19:53:20	6359.596	4.181
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.6	9/01/2003 12:39	3:28:20	89.049	0.964	26.598	9/01/2003 12:37	3:26:39	88.839	0.962
147	WURDONGCK 616.40	W2		9/01/2003 9:11	24.578	10/01/2003 8:39	23:28:19	87.94	0.905	21.39	9/01/2003 12:44	3:33:20	88.273	0.904
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	24.578	10/01/2003 8:39	23:28:19	87.372	0.914	16.239	9/01/2003 12:51	3:40:00	87.484	0.913
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	24.578	10/01/2003 8:39	23:28:19	130.742	0.899	14.954	10/01/2003 6:11	21:00:00	86.774	2.927
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	24.578	10/01/2003 8:39	23:28:19	321.291	0.732	14.954	10/01/2003 6:11	21:00:00	86.608	3.336
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	24.578	10/01/2003 8:47	23:36:39	712.724	0.367	14.954	10/01/2003 6:11	21:00:00	257.152	0.367
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	24.577	10/01/2003 8:39	23:28:19	1168.275	0.693	14.954	10/01/2003 6:11	21:00:00	526.395	0.692
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	29.187	10/01/2003 8:14	23:03:19	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	29.185	10/01/2003 8:14	23:03:19	54.591	3.423	17.535	10/01/2003 5:31	20:20:00	29.854	6.238
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	29.185	10/01/2003 8:14	23:03:19	177.962	0.143	17.534	10/01/2003 5:37	20:26:40	42.778	0.225
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	29.185	10/01/2003 8:14	23:03:19	278.136	0.414	17.534	10/01/2003 5:37	20:26:40	59.4	0.449
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	29.186	10/01/2003 8:14	23:03:19	345.84	0.586	17.534	10/01/2003 5:44	20:33:19	97.711	17.732
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	29.186	10/01/2003 8:14	23:03:19	415.45	2.993	17.534	10/01/2003 5:44	20:33:19	150.261	2.992
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	30.288	10/01/2003 8:05	22:54:59	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	30.287	10/01/2003 8:05	22:54:59	79.383	0.395	18.107	10/01/2003 5:31	20:20:00	48.952	9.522
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	30.286	10/01/2003 8:05	22:54:59	160.755	0.641	18.106	10/01/2003 5:24	20:13:19	34.263	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	30.286	10/01/2003 8:05	22:54:59	286.245	0.519	18.106	10/01/2003 5:31	20:20:00	78.683	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	30.286	10/01/2003 8:05	22:54:59	452.985	1.329	18.106	10/01/2003 5:24	20:13:19	144.253	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	30.286	10/01/2003 8:05	22:54:59	27470.436	7.77	18.106	10/01/2003 5:24	20:13:19	5471.138	3.322
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	24.779	10/01/2003 8:14	23:03:19	27466.982	10.258	15.433	10/01/2003 5:37	20:26:40	5470.887	4.442
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	22.735	10/01/2003 8:39	23:28:19	27457.51	4.818	14.445	10/01/2003 5:50	20:39:59	5470.309	2.208
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	21.996	10/01/2003 8:47	23:36:39	27416.184	3.282	13.377	10/01/2003 6:17	21:06:39	5467.648	2.886
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	21.918	10/01/2003 8:47	23:36:39	27370.123	1.906	13.201	10/01/2003 6:17	21:06:39	5464.513	1.018
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	21.918	10/01/2003 8:47	23:36:39	2373.403	0.588	13.201	10/01/2003 6:17	21:06:39	936.361	0.586
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	21.919	10/01/2003 8:47	23:36:39	2307.005	0.81	13.201	10/01/2003 6:17	21:06:39	920.546	0.813
171	O'LAND01 0.00			9/01/2003 9:11	21.918	10/01/2003 8:47	23:36:39	31444.732	3.301	13.201	10/01/2003 6:17	21:06:39	5179.466	1.508
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	21.099	10/01/2003 8:56	23:45:00	31429.855	3.54	12.768	10/01/2003 6:24	21:13:19	5178.729	1.625
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	20.541	10/01/2003 8:56	23:45:00	31402.668	2.891	12.233	10/01/2003 6:31	21:20:00	5176.758	1.489
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	20.331	10/01/2003 8:56	23:45:00	31389.992	2.503	11.971	10/01/2003 6:37	21:26:40	5175.162	1.222
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	20.011	10/01/2003 9:04	23:53:20	31361.129	2.148	11.688	10/01/2003 6:37	21:26:40	5172.164	0.963
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	19.764	10/01/2003 9:04	23:53:20	31327.541	1.966	11.53	10/01/2003 6:44	21:33:19	5169.568	0.836
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	19.076	10/01/2003 9:04	23:53:20	31303.658	3.489	11.145	10/01/2003 6:44	21:33:19	5167.967	2.308
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	19.077	10/01/2003 9:04	23:53:20	55.387	0.31	11.145	10/01/2003 6:44	21:33:19	56.063	0.313

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55 - 12hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	12hr - PMF - Failure					12hr - PMF - No failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
179	CATTLECK 743.60	CC2		9/01/2003 9:11	19.077	10/01/2003 9:04	23:53:20	195.939	0.881		11.145	10/01/2003 6:44	21:33:19	54.676	0.879
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	19.077	10/01/2003 9:04	23:53:20	336.149	0.771		11.145	10/01/2003 6:44	21:33:19	83.879	0.771
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	19.076	10/01/2003 9:04	23:53:20	486.354	0.17		11.145	10/01/2003 6:44	21:33:19	150.997	0.17
182	CATTLECK 1994.43			9/01/2003 9:11	19.076	10/01/2003 9:04	23:53:20	31209.584	2.408		11.145	10/01/2003 6:44	21:33:19	5165.426	0.963
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	18.684	10/01/2003 9:04	23:53:20	31206.643	3.429		10.971	10/01/2003 6:44	21:33:19	5165.387	1.992
184	CATTLECK 2335.00			9/01/2003 9:11	18.23	10/01/2003 9:04	23:53:20	31201.678	3.624		10.775	10/01/2003 6:44	21:33:19	5165.325	2.06
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	18.232	10/01/2003 9:04	23:53:20	32473.996	1.929		10.931	10/01/2003 6:44	21:33:19	7671.991	1.921
186	STHTREES 851.80	ST2		9/01/2003 9:11	17.474	10/01/2003 9:12	24:01:40	32337.574	1.753		9.907	10/01/2003 7:11	22:00:00	7659.839	1.127
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	17.219	10/01/2003 9:20	24:09:59	32233.773	1.769		9.633	10/01/2003 7:17	22:06:39	7648.123	1.408
188	STHTREES 2361.30	ST4		9/01/2003 9:11	16.996	10/01/2003 9:20	24:09:59	32134.359	1.588		9.414	10/01/2003 7:24	22:13:19	7636.297	0.901
189	STHTREES 2829.50	ST5		9/01/2003 9:11	16.951	10/01/2003 9:20	24:09:59	32069.41	1.162		9.341	10/01/2003 7:31	22:20:00	7628.488	0.713
190	STHTREES 3773.50	ST6		9/01/2003 9:11	16.753	10/01/2003 9:20	24:09:59	31980.646	1.384		9.198	10/01/2003 7:31	22:20:00	7615.729	0.748
191	STHTREES 4171.60	ST7		9/01/2003 9:11	16.564	10/01/2003 9:20	24:09:59	31961.764	1.912		9.114	10/01/2003 7:31	22:20:00	7612.561	0.931
192	STHTREES 4595.40	ST8		9/01/2003 9:11	16.223	10/01/2003 9:20	24:09:59	31946.68	2.573		8.949	10/01/2003 7:31	22:20:00	7610.416	1.335
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	31927.164	2.448		8.712	10/01/2003 7:37	22:26:40	7608.427	1.397
194	STHTREES 5122.39			9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	31888.377	2.436		8.712	10/01/2003 7:37	22:26:40	7604.362	1.395
195	STHTREES 5493.40	ST9		9/01/2003 9:11	15.452	10/01/2003 9:29	24:18:19	31879.904	2.956		8.528	10/01/2003 7:37	22:26:40	7603.512	1.493
196	STHTREES 6390.90	ST10		9/01/2003 9:11	13.328	10/01/2003 9:29	24:18:19	31872.127	6.151		7.356	10/01/2003 7:44	22:33:19	7601.995	3.797
197	STHTREES 7658.80	ST11		9/01/2003 9:11	11.275	10/01/2003 9:46	24:35:00	31827.908	1.696		6.023	10/01/2003 8:24	23:13:19	7594.201	0.78
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	10.986	10/01/2003 9:46	24:35:00	31798.982	1.81		5.89	10/01/2003 8:24	23:13:19	7588.587	0.871
199	STHTREES 8251.05			9/01/2003 9:11	10.986	10/01/2003 9:46	24:35:00	31733.605	1.801		5.89	10/01/2003 8:24	23:13:19	7578.459	0.868
200	STHTREES 9287.10	ST12		9/01/2003 9:11	10.267	10/01/2003 9:54	24:43:19	31709.061	2.145		5.555	10/01/2003 8:31	23:20:00	7573.368	1.064
201	STHTREES 11258.10	ST13		9/01/2003 9:11	8.725	10/01/2003 9:54	24:43:19	31677.107	1.863		4.812	10/01/2003 8:44	23:33:19	7565.15	0.929
202	STHTREES 12688.10	ST14		9/01/2003 9:11	7.428	10/01/2003 10:02	24:51:39	31655.758	1.839		4.208	10/01/2003 8:57	23:46:40	7559.803	0.991
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.909	10/01/2003 10:02	24:51:39	31652.041	1.427		3.668	10/01/2003 9:17	24:06:39	7551.323	0.601
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	31650.66	5.879		2.42	9/01/2003 9:11	0:00:00	7547.791	1.402
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	103.118	1.206		10.477	9/01/2003 12:17	3:06:40	103.343	1.206
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	102.825	1.781		8.712	10/01/2003 7:37	22:26:40	103.021	3.721
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	102.701	0.357		8.712	10/01/2003 7:37	22:26:40	102.644	0.358
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	162.819	0.203		8.712	10/01/2003 7:37	22:26:40	101.28	0.203
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	15.888	10/01/2003 9:20	24:09:59	240.362	0.104		8.712	10/01/2003 7:37	22:26:40	101.938	0.104
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.083	9/01/2003 12:39	3:28:20	150.277	0.97		13.083	9/01/2003 12:37	3:26:39	150.253	0.973
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	10.988	10/01/2003 9:46	24:35:00	150.164	3.502		5.892	10/01/2003 8:04	22:53:20	150.126	3.501
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	10.987	10/01/2003 9:46	24:35:00	148.966	0.229		5.89	10/01/2003 8:24	23:13:19	149.127	0.229
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	10.987	10/01/2003 9:46	24:35:00	227.29	0.086		5.89	10/01/2003 8:24	23:13:19	145.542	0.086
214	ELEVENMILECK 3887.00			9/01/2003 9:11	10.986	10/01/2003 9:46	24:35:00	315.972	0.085		5.89	10/01/2003 8:24	23:13:19	144.928	0.085
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	37.948	10/01/2003 7:24	22:13:19	77.923	2.179		22.942	10/01/2003 3:37	18:26:40	78.542	2.179
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	37.945	10/01/2003 7:24	22:13:19	359.744	1.948		22.942	10/01/2003 3:37	18:26:40	182.508	11.5
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	37.93	10/01/2003 7:16	22:05:00	1267.602	0.159		22.941	10/01/2003 3:44	18:33:19	718.239	0.161
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	37.93	10/01/2003 7:16	22:05:00	1381.555	0.153		22.941	10/01/2003 3:44	18:33:19	775.615	0.154
219	SPELLWAY 0.00			9/01/2003 9:11	57.833	10/01/2003 0:36	15:25:00	16043.599	1.232		57.828	10/01/2003 0:37	15:26:40	14577.677	0.445
220	SPELLWAY 300.00			9/01/2003 9:11	50.711	10/01/2003 4:37	19:26:40	14550.15	0.554		29.438	10/01/2003 1:17	16:06:39	14544.799	0.554



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF - Failure					24hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	58.233	10/01/2003 9:47	24:36:39	24759.627	0.872	58.229	10/01/2003 9:50	24:39:59	24759.256	0.872
2	BOYNERIVER 100.00			9/01/2003 9:11	58.222	10/01/2003 9:34	24:23:20	125104.57	5.515	58.218	10/01/2003 9:31	24:20:00	19425.375	0.778
3	BOYNERIVER 100.00			9/01/2003 9:11	58.222	10/01/2003 9:34	24:23:20	110581.844	4.875	58.218	10/01/2003 9:31	24:20:00	4261.934	0.171
4	BOYNERIVER 150.00			9/01/2003 9:11	58.221	10/01/2003 9:34	24:23:20	109442.68	6.658	58.217	10/01/2003 9:31	24:20:00	4261.294	0.222
5	BOYNERIVER 350.00			9/01/2003 9:11	51.018	10/01/2003 14:01	28:50:00	105964.75	6.674	30.337	10/01/2003 10:04	24:53:20	4263.5	1.255
6	BOYNERIVER 420.00			9/01/2003 9:11	51.145	10/01/2003 14:01	28:50:00	105321.023	6.206	30.333	10/01/2003 10:04	24:53:20	4263.945	1.425
7	BOYNERIVER 420.00			9/01/2003 9:11	51.145	10/01/2003 14:01	28:50:00	104705.234	6.151	30.333	10/01/2003 10:04	24:53:20	19406.594	2.601
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	51.093	10/01/2003 14:01	28:50:00	104123.883	4.65	29.833	10/01/2003 10:11	25:00:00	19405.934	2.702
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	48.246	10/01/2003 14:01	28:50:00	103704.031	8.105	28.882	10/01/2003 10:24	25:13:19	19403.178	3.159
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	45.11	10/01/2003 14:20	29:09:59	103296.453	9.482	27.713	10/01/2003 10:37	25:26:40	19400.105	3.507
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	44.785	10/01/2003 14:20	29:09:59	103137.844	8.53	27.486	10/01/2003 10:44	25:33:19	19399.125	3.082
12	BOYNERIVER 2182.33			9/01/2003 9:11	44.785	10/01/2003 14:20	29:09:59	94694.688	7.387	27.486	10/01/2003 10:44	25:33:19	19387.59	3.077
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	43.499	10/01/2003 14:34	29:23:20	94529.289	7.504	26.949	10/01/2003 10:50	25:39:59	19386.35	3.191
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	43.24	10/01/2003 14:34	29:23:20	94227.836	3.89	26.522	10/01/2003 10:57	25:46:40	19380.797	1.736
15	BOYNERIVER 3120.26			9/01/2003 9:11	43.24	10/01/2003 14:34	29:23:20	93399.453	3.787	26.522	10/01/2003 10:57	25:46:40	19373.092	1.734
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	43.061	10/01/2003 14:34	29:23:20	93328.297	3.612	26.407	10/01/2003 10:57	25:46:40	19371.268	1.717
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	41.296	10/01/2003 15:24	30:13:19	93043.805	5.741	25.693	10/01/2003 11:11	26:00:00	19365.006	2.455
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	38.575	10/01/2003 16:34	31:23:20	92737.578	8.356	24.254	10/01/2003 11:37	26:26:40	19357.596	3.629
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	38.426	10/01/2003 16:44	31:33:19	92362.453	4.729	23.832	10/01/2003 11:57	26:46:40	19347.607	1.814
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	38.426	10/01/2003 16:44	31:33:19	89217.664	4.479	23.832	10/01/2003 11:57	26:46:40	19276.568	1.801
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	38.382	10/01/2003 16:44	31:33:19	88854.273	3.126	23.585	10/01/2003 12:04	26:53:20	19266.352	2.376
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	38.1	10/01/2003 16:47	31:36:39	87983.828	2.896	23.197	10/01/2003 12:17	27:06:39	19244.625	1.855
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	38.1	10/01/2003 16:47	31:36:39	86121.625	2.81	23.197	10/01/2003 12:17	27:06:39	19216.277	1.825
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	37.781	10/01/2003 16:47	31:36:39	85298.039	3.283	22.712	10/01/2003 12:31	27:20:00	19200.205	2.136
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	37.374	10/01/2003 16:57	31:46:40	84196.227	3.777	22.25	10/01/2003 12:44	27:33:19	19182.045	2.246
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	37.374	10/01/2003 16:57	31:46:40	39376.73	2.2	22.25	10/01/2003 12:44	27:33:19	11604.415	2.2
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	37.32	10/01/2003 16:57	31:46:40	38724.02	1.892	22.149	10/01/2003 12:44	27:33:19	11590.942	1.719
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	37.313	10/01/2003 16:57	31:46:40	38303.781	1.462	22.13	10/01/2003 12:44	27:33:19	11581.272	1.098
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	37.117	10/01/2003 16:57	31:46:40	37938.848	3.046	21.994	10/01/2003 12:50	27:39:59	11572.366	1.81
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	36.89	10/01/2003 17:04	31:53:20	37692.422	3.717	21.81	10/01/2003 12:57	27:46:40	11567.244	2.005
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	36.953	10/01/2003 17:01	31:50:00	37409	2.475	21.759	10/01/2003 12:57	27:46:40	11565.334	1.824
32	BOYNERIVER 10401.00			9/01/2003 9:11	36.731	10/01/2003 17:04	31:53:20	37265.246	3.475	21.628	10/01/2003 12:57	27:46:40	11578.356	1.908
33	BOYNERIVER 10402.80			9/01/2003 9:11	36.733	10/01/2003 17:04	31:53:20	37265.438	3.476	21.629	10/01/2003 13:11	28:00:00	11578.583	1.909
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	36.739	10/01/2003 17:01	31:50:00	37258.5	3.475	21.644	10/01/2003 12:57	27:46:40	11578.342	1.907
35	BOYNERIVER 10414.00			9/01/2003 9:11	36.727	10/01/2003 17:04	31:53:20	37256.668	3.474	21.623	10/01/2003 13:04	27:53:20	11578.034	1.906
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	36.712	10/01/2003 17:04	31:53:20	37058.945	3.16	21.582	10/01/2003 12:57	27:46:40	11554.925	1.787
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	36.575	10/01/2003 17:04	31:53:20	36959.914	3.707	21.488	10/01/2003 13:04	27:53:20	11550.45	2.217
38	BOYNERIVER 10832.90			9/01/2003 9:11	36.575	10/01/2003 17:04	31:53:20	68196.461	5.619	21.488	10/01/2003 13:04	27:53:20	18914.973	2.88
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	34.015	10/01/2003 17:11	32:00:00	68184.766	8.639	20.465	10/01/2003 13:04	27:53:20	18914.684	4.325
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	30.674	10/01/2003 17:24	32:13:19	68168.203	9.187	18.932	10/01/2003 13:17	28:06:39	18913.496	4.402
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	30.674	10/01/2003 17:24	32:13:19	39730.117	5.418	18.932	10/01/2003 13:17	28:06:39	12562.177	2.931
42	BOYNERIVER 12303.00			9/01/2003 9:11	29.552	10/01/2003 17:30	32:19:59	39710.535	5.74	18.34	10/01/2003 13:31	28:20:00	12561.259	2.986
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	29.552	10/01/2003 17:30	32:19:59	39396.363	5.619	18.34	10/01/2003 13:31	28:20:00	12530.25	2.978

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF - Failure					24hr - PMF - No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	29.117	10/01/2003 17:37	32:26:39	39390.922	5.749		18.123	10/01/2003 13:31	28:20:00	12529.777	3.009
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	28.333	10/01/2003 17:41	32:30:00	39376.91	5.651		17.571	10/01/2003 13:37	28:26:40	12528.34	3.162
46	BOYNERIVER 12785.40			9/01/2003 9:11	28.333	10/01/2003 17:41	32:30:00	38958.215	5.473		17.571	10/01/2003 13:37	28:26:40	12512.405	3.153
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	28.025	10/01/2003 17:44	32:33:20	38956.594	5.598		17.379	10/01/2003 13:37	28:26:40	12512.299	3.257
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	27.763	10/01/2003 17:44	32:33:20	38948.352	4.259		17.104	10/01/2003 13:37	28:26:40	12511.977	2.352
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	25.747	10/01/2003 17:54	32:43:19	38932.73	5.995		16.038	10/01/2003 13:57	28:46:40	12511.232	3.429
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	24.873	10/01/2003 18:00	32:49:59	38919.879	5.166		15.585	10/01/2003 13:57	28:46:40	12510.305	2.685
51	BOYNERIVER 14304.56			9/01/2003 9:11	24.873	10/01/2003 18:00	32:49:59	38581.18	5.074		15.585	10/01/2003 13:57	28:46:40	12493.802	2.676
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	24.588	10/01/2003 18:00	32:49:59	38580.465	4.805		15.471	10/01/2003 14:04	28:53:20	12493.632	2.459
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	24.18	10/01/2003 18:04	32:53:20	38576.809	3.363		15.095	10/01/2003 14:04	28:53:20	12493.188	2.112
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	22.845	10/01/2003 18:04	32:53:20	38572.965	4.814		14.386	10/01/2003 14:04	28:53:20	12493.065	3.069
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	22.495	10/01/2003 18:04	32:53:20	38567.75	2.898		13.961	10/01/2003 14:04	28:53:20	12492.933	2.218
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	22.204	10/01/2003 18:04	32:53:20	38561.641	2.409		13.793	10/01/2003 14:04	28:53:20	12492.707	1.563
57	BOYNERIVER 16062.90			9/01/2003 9:11	22.204	10/01/2003 18:04	32:53:20	34061.152	2.161		13.793	10/01/2003 14:04	28:53:20	12702.245	1.59
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	22.161	10/01/2003 18:04	32:53:20	34055.613	2.074		13.76	10/01/2003 14:04	28:53:20	12702.021	1.486
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	20.99	10/01/2003 18:11	33:00:00	34029.324	4.754		13.116	10/01/2003 14:11	29:00:00	12700.87	2.88
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	20.083	10/01/2003 18:17	33:06:39	34013.723	4.88		12.492	10/01/2003 14:17	29:06:39	12700.043	2.982
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	18.475	10/01/2003 18:24	33:13:19	34004.164	7.279		11.429	10/01/2003 14:31	29:20:00	12699.519	4.828
62	BOYNERIVER 17722.19			9/01/2003 9:11	18.475	10/01/2003 18:24	33:13:19	4304.455	2.116		11.429	10/01/2003 14:31	29:20:00	3961.791	2.116
63	BOYNERIVER 17874.50			9/01/2003 9:11	18.475	10/01/2003 18:24	33:13:19	4289.221	2.42		11.341	10/01/2003 14:31	29:20:00	3960.684	2.42
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	18.474	10/01/2003 18:24	33:13:19	4257.79	2.134		11.291	10/01/2003 14:31	29:20:00	3958.386	2.13
65	BOYNERIVER 18184.66			9/01/2003 9:11	18.474	10/01/2003 18:24	33:13:19	33011.414	6.735		11.291	10/01/2003 14:31	29:20:00	10100.604	3.721
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	17.889	10/01/2003 18:24	33:13:19	33011.277	6.146		10.981	10/01/2003 14:31	29:20:00	10100.532	3.206
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	16.068	10/01/2003 18:27	33:16:40	33010.992	7.232		10.202	10/01/2003 14:31	29:20:00	10100.421	3.641
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	16.106	10/01/2003 18:27	33:16:40	33010.043	3.93		10.078	10/01/2003 14:37	29:26:40	10100.278	2.174
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	15.742	10/01/2003 18:27	33:16:40	33006.355	2.671		9.655	10/01/2003 14:37	29:26:40	10100.08	1.932
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	14.604	10/01/2003 18:30	33:19:59	33004.93	4.75		9.045	10/01/2003 14:37	29:26:40	10099.927	2.8
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	14.324	10/01/2003 18:30	33:19:59	33003.336	2.913		8.553	10/01/2003 14:37	29:26:40	10099.801	2.36
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	14.01	10/01/2003 18:30	33:19:59	33002.492	3.12		8.41	10/01/2003 14:37	29:26:40	10099.791	2.029
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	13.02	10/01/2003 18:30	33:19:59	33002.469	4.049		7.646	10/01/2003 14:37	29:26:40	10099.766	3.04
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	11.557	10/01/2003 18:30	33:19:59	33002.434	7.629		6.566	10/01/2003 14:37	29:26:40	10099.756	5.123
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	9.428	10/01/2003 18:30	33:19:59	33002.234	4.891		5.771	10/01/2003 14:37	29:26:40	10099.727	2.963
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.903	10/01/2003 18:30	33:19:59	33001.883	5.5		4.439	10/01/2003 14:37	29:26:40	10099.678	3.078
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	33001.695	27.566		2.42	9/01/2003 9:11	0:00:00	10099.661	8.436
78	COOMALCK 0.00	C1		9/01/2003 9:11	43.3	10/01/2003 14:27	29:16:40	193.098	1.796		38.064	9/01/2003 12:37	3:26:39	192.995	1.794
79	COOMALCK 398.20	C2		9/01/2003 9:11	43.276	10/01/2003 14:27	29:16:40	193.02	1.948		33.385	9/01/2003 12:37	3:26:39	192.915	2.335
80	COOMALCK 794.20	C3		9/01/2003 9:11	43.254	10/01/2003 14:27	29:16:40	196.326	1.612		31.69	10/01/2003 15:17	30:06:39	1241.545	3.701
81	COOMALCK 1209.50	C4		9/01/2003 9:11	43.24	10/01/2003 14:37	29:26:40	192.957	1.619		28.327	10/01/2003 15:17	30:06:39	1693.204	8.714
82	COOMALCK 1813.30	C5		9/01/2003 9:11	43.251	10/01/2003 14:31	29:20:00	199.466	2.011		26.522	10/01/2003 10:57	25:46:40	297.302	5.117
83	COOMALCK 2352.80	C6		9/01/2003 9:11	43.253	10/01/2003 14:31	29:20:00	454.742	1.199		26.522	10/01/2003 10:57	25:46:40	271.169	1.2
84	COOMALCK 3112.20	C7		9/01/2003 9:11	43.247	10/01/2003 14:31	29:20:00	615.767	2.267		26.522	10/01/2003 10:57	25:46:40	423.174	2.265
85	COOMALCK 3751.30	C8		9/01/2003 9:11	43.239	10/01/2003 14:31	29:20:00	655.201	1.106		26.522	10/01/2003 10:57	25:46:40	758.111	1.102
86	COOMALCK 4222.50	C9		9/01/2003 9:11	43.239	10/01/2003 14:34	29:23:20	758.841	2.552		26.522	10/01/2003 10:57	25:46:40	969.664	2.546
87	COOMALCK 4305.00			9/01/2003 9:11	43.24	10/01/2003 14:34	29:23:20	767.743	34.325		26.522	10/01/2003 10:57	25:46:40	971.679	34.25
88	YUNKACK 0.00	Y1		9/01/2003 9:11	38.117	10/01/2003 16:44	31:33:19	74.26	1.467		34.713	9/01/2003 11:44	2:33:20	73.421	1.459

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF - Failure					24hr - PMF - No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	WL (m)	Time	(hrs:min:sec)	m <sup>3</sup> /s	m/s	
89	YUNKACK 574.20	Y2		9/01/2003 9:11	38.105	10/01/2003 16:44	31:33:19	73.563	1.72		26.994	9/01/2003 11:44	2:33:20	73.556	10.633
90	YUNKACK 948.90	Y3		9/01/2003 9:11	38.103	10/01/2003 16:44	31:33:19	99.283	1.157		23.197	10/01/2003 12:11	27:00:00	72.961	1.157
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	38.1	10/01/2003 16:44	31:33:19	163.678	1.458		23.197	10/01/2003 12:11	27:00:00	72.636	9.474
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	38.099	10/01/2003 16:41	31:30:00	303.542	1.18		23.197	10/01/2003 12:17	27:06:39	92.756	1.18
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	38.099	10/01/2003 16:41	31:30:00	544.517	1.375		23.197	10/01/2003 12:17	27:06:39	183.441	1.374
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	38.1	10/01/2003 16:47	31:36:39	696.384	39.34		23.197	10/01/2003 12:17	27:06:39	267.145	39.377
95	TUCKERGULLY 0.00			9/01/2003 9:11	44.868	10/01/2003 14:17	29:06:39	262.678	0.814		36.799	9/01/2003 12:24	3:13:20	262.656	0.806
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	44.833	10/01/2003 14:14	29:03:19	355.485	2.14		34.682	9/01/2003 12:24	3:13:20	258.951	2.137
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	44.799	10/01/2003 14:20	29:09:59	441.235	1.88		29.736	9/01/2003 12:37	3:26:39	258.469	1.88
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	44.783	10/01/2003 14:37	29:26:40	702.413	2.359		27.487	10/01/2003 10:37	25:26:40	258.454	2.359
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	44.801	10/01/2003 14:24	29:13:19	636.338	2.089		27.485	10/01/2003 10:37	25:26:40	258.354	2.089
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	44.819	10/01/2003 14:24	29:13:19	729.156	1.696		27.486	10/01/2003 10:37	25:26:40	257.797	1.696
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	44.802	10/01/2003 14:24	29:13:19	893.955	2.137		27.486	10/01/2003 10:44	25:33:19	257.462	2.136
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	44.779	10/01/2003 14:27	29:16:40	2363.915	2.605		27.486	10/01/2003 10:37	25:26:40	259.976	2.602
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	44.794	10/01/2003 14:27	29:16:40	2468.199	2.749		27.485	10/01/2003 10:37	25:26:40	329.467	2.747
104	TUCKERGULLY 5765.40			9/01/2003 9:11	44.794	10/01/2003 14:27	29:16:40	2293.733	2.746		27.485	10/01/2003 10:37	25:26:40	498.656	3.442
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	44.79	10/01/2003 14:27	29:16:40	2903.574	1.161		27.486	10/01/2003 10:44	25:33:19	662.967	1.154
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	44.785	10/01/2003 14:20	29:09:59	4736.169	5.201		27.486	10/01/2003 10:44	25:33:19	785.852	5.184
107	TUCKERTRIB 0.00			9/01/2003 9:11	44.808	10/01/2003 14:20	29:09:59	2.5	0.274		30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	44.794	10/01/2003 14:20	29:09:59	446.44	0.639		30.261	9/01/2003 9:11	0:00:00	2.5	0.573
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	44.814	10/01/2003 14:24	29:13:19	575.507	3.282		27.488	10/01/2003 10:44	25:33:19	14.777	6.396
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	44.806	10/01/2003 14:24	29:13:19	727.542	1.023		27.487	10/01/2003 10:44	25:33:19	38.05	1.271
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	44.795	10/01/2003 14:24	29:13:19	1132.763	0.316		27.486	10/01/2003 10:37	25:26:40	78.269	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	44.807	10/01/2003 14:24	29:13:19	1452.685	0.652		27.486	10/01/2003 10:44	25:33:19	104.738	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	44.803	10/01/2003 14:27	29:16:40	1082.417	0.387		27.487	10/01/2003 10:44	25:33:19	140.81	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	44.794	10/01/2003 14:27	29:16:40	1942.429	6.064		27.485	10/01/2003 10:37	25:26:40	178.936	8.361
115	STATIONCK 0.00	S1		9/01/2003 9:11	36.613	10/01/2003 17:04	31:53:20	530.677	0.975		21.517	10/01/2003 13:04	27:53:20	530.655	0.929
116	STATIONCK 684.50	S2		9/01/2003 9:11	36.613	10/01/2003 17:04	31:53:20	522.166	1.142		21.517	10/01/2003 13:04	27:53:20	521.834	1.136
117	STATIONCK 1599.70	S3		9/01/2003 9:11	36.614	10/01/2003 17:07	31:56:40	1365.449	1.17		21.516	10/01/2003 13:04	27:53:20	516.776	1.063
118	STATIONCK 2431.30	S4		9/01/2003 9:11	36.612	10/01/2003 17:04	31:53:20	2189.567	1.006		21.516	10/01/2003 13:04	27:53:20	544.874	1.006
119	STATIONCK 3013.70	S5		9/01/2003 9:11	36.613	10/01/2003 17:04	31:53:20	2816.911	0.805		21.516	10/01/2003 13:04	27:53:20	698.592	0.803
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	36.612	10/01/2003 17:04	31:53:20	3479.999	1.006		21.516	10/01/2003 13:04	27:53:20	911.075	1.002
121	STATIONCK 4481.70	S7		9/01/2003 9:11	36.61	10/01/2003 17:04	31:53:20	4013.648	1.112		21.516	10/01/2003 13:04	27:53:20	1158.016	1.111
122	STATIONCK 5140.80	S8		9/01/2003 9:11	36.61	10/01/2003 17:07	31:56:40	4527.757	0.58		21.516	10/01/2003 13:04	27:53:20	1430.191	0.58
123	STATIONCK 5918.90	S9		9/01/2003 9:11	36.609	10/01/2003 17:07	31:56:40	5193.5	0.473		21.516	10/01/2003 13:04	27:53:20	1780.09	0.467
124	STATIONCK 6575.50	S10		9/01/2003 9:11	36.607	10/01/2003 17:07	31:56:40	5673.411	0.248		21.516	10/01/2003 13:04	27:53:20	1994.561	0.281
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	36.606	10/01/2003 17:04	31:53:20	5917.362	0.306		21.516	10/01/2003 13:04	27:53:20	2082.469	0.341
126	STATIONCK 6954.40			9/01/2003 9:11	36.606	10/01/2003 17:04	31:53:20	37462.184	0.941		21.516	10/01/2003 13:04	27:53:20	7557.175	0.56
127	STATIONCK 7691.00	S11		9/01/2003 9:11	36.575	10/01/2003 17:04	31:53:20	37596.695	0.922		21.488	10/01/2003 13:04	27:53:20	7574.397	0.618
128	MACHINECK 0.00	M1		9/01/2003 9:11	34.288	9/01/2003 12:14	3:03:20	241.986	1.116		34.288	9/01/2003 12:11	3:00:00	241.972	1.112
129	MACHINECK 726.30	M2		9/01/2003 9:11	29.39	9/01/2003 12:17	3:06:40	240.888	1.179		29.39	9/01/2003 12:17	3:06:40	240.895	1.179
130	MACHINECK 1186.80	M3		9/01/2003 9:11	28.337	10/01/2003 17:41	32:30:00	240.761	1.574		27.141	9/01/2003 12:17	3:06:40	240.639	1.574
131	MACHINECK 1699.10	M4		9/01/2003 9:11	28.337	10/01/2003 17:41	32:30:00	240.078	0.954		23.693	9/01/2003 12:30	3:19:59	240.02	0.954
132	MACHINECK 2214.80	M5		9/01/2003 9:11	28.336	10/01/2003 17:41	32:30:00	239.846	2.283		21.217	9/01/2003 12:30	3:19:59	239.842	2.89
133	MACHINECK 2730.60	M6		9/01/2003 9:11	28.336	10/01/2003 17:44	32:33:20	239.771	1.796		17.611	9/01/2003 12:37	3:26:39	239.721	1.792

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF - Failure					24hr - PMF - No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
134	MACHINECK 3140.90	M7		9/01/2003 9:11	28.335	10/01/2003 17:41	32:30:00	239.718	1.862		17.571	10/01/2003 13:37	28:26:40	239.717	1.861
135	MACHINECK 3611.90	M8		9/01/2003 9:11	28.335	10/01/2003 17:41	32:30:00	239.55	1.079		17.571	10/01/2003 13:37	28:26:40	239.532	1.078
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	28.335	10/01/2003 17:41	32:30:00	330.734	1.784		17.571	10/01/2003 13:37	28:26:40	238.578	19.451
137	MACHINECK 5099.90	M10		9/01/2003 9:11	28.334	10/01/2003 17:41	32:30:00	507.509	2.291		17.571	10/01/2003 13:37	28:26:40	238.181	2.291
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	28.334	10/01/2003 17:44	32:33:20	670.357	0.931		17.57	10/01/2003 13:44	28:33:19	265.354	0.927
139	MACHINECK 6711.00	M12		9/01/2003 9:11	28.333	10/01/2003 17:41	32:30:00	810.891	1.429		17.571	10/01/2003 13:37	28:26:40	355.822	1.428
140	O'LISTATION 0.00			9/01/2003 9:11	37.374	10/01/2003 16:57	31:46:40	44939.789	1.827		22.25	10/01/2003 12:44	27:33:19	7593.72	1.714
141	O'LISTATION 304.10	O2-1		9/01/2003 9:11	37.34	10/01/2003 16:57	31:46:40	44482.684	2.23		22.198	10/01/2003 12:44	27:33:19	7586.572	2.23
142	O'LISTATION 1252.20	O2-2		9/01/2003 9:11	37.208	10/01/2003 16:57	31:46:40	43222.273	4.757		22.036	10/01/2003 12:50	27:39:59	7567.587	4.282
143	O'LISTATION 1924.60	O2-3		9/01/2003 9:11	36.929	10/01/2003 17:01	31:50:00	42587.43	4.431		21.817	10/01/2003 12:57	27:46:40	7558.275	3.837
144	O'LISTATION 2385.50			9/01/2003 9:11	36.684	10/01/2003 17:04	31:53:20	42279.984	4		21.606	10/01/2003 13:04	27:53:20	7553.262	2.667
145	O'LISTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	36.606	10/01/2003 17:04	31:53:20	42147.375	4.045		21.516	10/01/2003 13:04	27:53:20	7551.036	3.26
146	WURDONGCK 0.00	W1		9/01/2003 9:11	26.761	9/01/2003 11:44	2:33:20	109.154	0.987		26.761	9/01/2003 11:44	2:33:20	108.123	0.981
147	WURDONGCK 616.40	W2		9/01/2003 9:11	24.874	10/01/2003 18:00	32:49:59	107.12	0.98		21.557	9/01/2003 11:51	2:40:00	107.115	1.455
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	24.874	10/01/2003 18:00	32:49:59	106.676	0.954		16.472	9/01/2003 12:04	2:53:19	106.677	0.954
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	24.874	10/01/2003 18:00	32:49:59	132.864	0.838		15.585	10/01/2003 14:04	28:53:20	103.047	3.927
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	24.874	10/01/2003 18:00	32:49:59	325.523	0.747		15.585	10/01/2003 13:57	28:46:40	100.275	3.335
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	24.873	10/01/2003 18:00	32:49:59	734.56	0.365		15.585	10/01/2003 13:57	28:46:40	263.403	0.365
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	24.873	10/01/2003 18:00	32:49:59	1186.455	0.874		15.585	10/01/2003 13:57	28:46:40	537.18	0.874
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	29.554	10/01/2003 17:30	32:19:59	3.5	0.268		24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	29.553	10/01/2003 17:34	32:23:20	57.574	3.421		18.339	10/01/2003 13:37	28:26:40	31.24	6.203
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	29.553	10/01/2003 17:34	32:23:20	183.496	0.143		18.34	10/01/2003 13:24	28:13:19	42.975	0.231
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	29.552	10/01/2003 17:34	32:23:20	283.439	0.451		18.34	10/01/2003 13:31	28:20:00	61.771	0.452
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	29.552	10/01/2003 17:34	32:23:20	350.957	0.572		18.34	10/01/2003 13:31	28:20:00	100.829	17.765
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	29.552	10/01/2003 17:30	32:19:59	420.475	2.993		18.34	10/01/2003 13:31	28:20:00	154.008	2.992
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	30.675	10/01/2003 17:24	32:13:19	1.5	0.167		18.932	10/01/2003 13:17	28:06:39	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	30.675	10/01/2003 17:24	32:13:19	80.408	0.398		18.932	10/01/2003 13:17	28:06:39	44.979	10.369
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	30.675	10/01/2003 17:24	32:13:19	161.54	0.641		18.932	10/01/2003 13:17	28:06:39	54.517	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	30.674	10/01/2003 17:24	32:13:19	286.986	0.519		18.932	10/01/2003 13:24	28:13:19	81.801	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	30.674	10/01/2003 17:24	32:13:19	452.764	1.329		18.932	10/01/2003 13:17	28:06:39	149.292	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	30.674	10/01/2003 17:24	32:13:19	28475.135	7.92		18.932	10/01/2003 13:17	28:06:39	6379.45	3.594
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	25.096	10/01/2003 17:30	32:19:59	28473.811	10.44		16.058	10/01/2003 13:31	28:20:00	6379.325	4.801
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	23.003	10/01/2003 17:57	32:46:40	28466.58	4.894		15.022	10/01/2003 13:44	28:33:19	6379.051	2.362
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	22.279	10/01/2003 18:04	32:53:20	28417.764	3.247		13.962	10/01/2003 14:04	28:53:20	6377.565	2.823
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	22.203	10/01/2003 18:04	32:53:20	28373.889	1.93		13.793	10/01/2003 14:04	28:53:20	6375.621	1.056
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	22.203	10/01/2003 18:04	32:53:20	1814.677	0.551		13.793	10/01/2003 14:04	28:53:20	903.501	0.55
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	22.204	10/01/2003 18:04	32:53:20	1767.364	0.777		13.793	10/01/2003 14:04	28:53:20	890.146	0.777
171	O'LAND01 0.00			9/01/2003 9:11	22.203	10/01/2003 18:04	32:53:20	32754.744	3.359		13.793	10/01/2003 14:04	28:53:20	6161.559	1.628
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	21.372	10/01/2003 18:11	33:00:00	32741.506	3.601		13.331	10/01/2003 14:11	29:00:00	6161.024	1.756
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	20.811	10/01/2003 18:14	33:03:20	32719.045	2.942		12.802	10/01/2003 14:17	29:06:39	6159.797	1.553
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	20.602	10/01/2003 18:14	33:03:20	32704.184	2.55		12.558	10/01/2003 14:24	29:13:19	6158.884	1.284
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	20.279	10/01/2003 18:17	33:06:39	32673.186	2.189		12.284	10/01/2003 14:24	29:13:19	6157.014	1.027
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	20.029	10/01/2003 18:17	33:06:39	32643.1	2.006		12.124	10/01/2003 14:24	29:13:19	6155.367	0.898
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	19.328	10/01/2003 18:21	33:10:00	32621.289	3.538		11.722	10/01/2003 14:31	29:20:00	6154.33	2.382
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	19.328	10/01/2003 18:21	33:10:00	68.671	0.336		11.722	10/01/2003 14:31	29:20:00	68.321	0.336

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 24hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	24hr - PMF - Failure					24hr - PMF - No Failure					
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	
179	CATTLECK 743.60	CC2		9/01/2003 9:11	19.328	10/01/2003 18:21	33:10:00	201.125	0.91		11.722	10/01/2003 14:31	29:20:00	67.385	0.907
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	19.328	10/01/2003 18:21	33:10:00	342.404	0.875		11.722	10/01/2003 14:31	29:20:00	85.536	0.875
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	19.328	10/01/2003 18:21	33:10:00	493.702	0.208		11.722	10/01/2003 14:31	29:20:00	153.824	0.208
182	CATTLECK 1994.43			9/01/2003 9:11	19.328	10/01/2003 18:21	33:10:00	32525.895	2.45		11.722	10/01/2003 14:31	29:20:00	6152.739	1.064
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	18.93	10/01/2003 18:24	33:13:19	32523.816	3.47		11.522	10/01/2003 14:31	29:20:00	6152.744	2.164
184	CATTLECK 2335.00			9/01/2003 9:11	18.474	10/01/2003 18:24	33:13:19	32520.098	3.665		11.291	10/01/2003 14:31	29:20:00	6152.748	2.254
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	18.475	10/01/2003 18:24	33:13:19	33572.141	1.908		11.429	10/01/2003 14:31	29:20:00	8748.47	1.901
186	STHTREES 851.80	ST2		9/01/2003 9:11	17.719	10/01/2003 18:30	33:19:59	33444.785	1.762		10.456	10/01/2003 14:50	29:39:59	8742.109	1.104
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	17.463	10/01/2003 18:34	33:23:20	33344.293	1.777		10.191	10/01/2003 14:57	29:46:40	8736.073	1.379
188	STHTREES 2361.30	ST4		9/01/2003 9:11	17.239	10/01/2003 18:34	33:23:20	33249.039	1.605		9.976	10/01/2003 15:04	29:53:20	8729.877	0.935
189	STHTREES 2829.50	ST5		9/01/2003 9:11	17.195	10/01/2003 18:37	33:26:39	33190.664	1.173		9.905	10/01/2003 15:04	29:53:20	8725.674	0.736
190	STHTREES 3773.50	ST6		9/01/2003 9:11	16.994	10/01/2003 18:37	33:26:39	33104.457	1.405		9.76	10/01/2003 15:04	29:53:20	8718.649	0.787
191	STHTREES 4171.60	ST7		9/01/2003 9:11	16.8	10/01/2003 18:37	33:26:39	33085.395	1.946		9.671	10/01/2003 15:04	29:53:20	8716.909	0.99
192	STHTREES 4595.40	ST8		9/01/2003 9:11	16.451	10/01/2003 18:41	33:30:00	33071.027	2.618		9.498	10/01/2003 15:11	30:00:00	8715.755	1.41
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	16.116	10/01/2003 18:41	33:30:00	33055.902	2.478		9.249	10/01/2003 15:11	30:00:00	8714.549	1.478
194	STHTREES 5122.39			9/01/2003 9:11	16.116	10/01/2003 18:41	33:30:00	33017.188	2.467		9.249	10/01/2003 15:11	30:00:00	8712.781	1.477
195	STHTREES 5493.40	ST9		9/01/2003 9:11	15.673	10/01/2003 18:41	33:30:00	33011.293	2.997		9.052	10/01/2003 15:11	30:00:00	8712.336	1.591
196	STHTREES 6390.90	ST10		9/01/2003 9:11	13.52	10/01/2003 18:44	33:33:20	33001.242	6.236		7.824	10/01/2003 15:17	30:06:39	8711.445	3.921
197	STHTREES 7658.80	ST11		9/01/2003 9:11	11.442	10/01/2003 19:00	33:49:59	32962.902	1.728		6.42	10/01/2003 15:50	30:39:59	8707.345	0.836
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	11.147	10/01/2003 19:04	33:53:20	32934.719	1.843		6.277	10/01/2003 15:50	30:39:59	8704.263	0.927
199	STHTREES 8251.05			9/01/2003 9:11	11.147	10/01/2003 19:04	33:53:20	32873.59	1.835		6.277	10/01/2003 15:50	30:39:59	8699.725	0.926
200	STHTREES 9287.10	ST12		9/01/2003 9:11	10.413	10/01/2003 19:07	33:56:39	32853.914	2.182		5.918	10/01/2003 15:57	30:46:40	8696.898	1.137
201	STHTREES 11258.10	ST13		9/01/2003 9:11	8.84	10/01/2003 19:14	34:03:20	32822.746	1.898		5.116	10/01/2003 16:11	31:00:00	8692.354	0.996
202	STHTREES 12688.10	ST14		9/01/2003 9:11	7.516	10/01/2003 19:17	34:06:39	32804.883	1.868		4.458	10/01/2003 16:24	31:13:19	8689.192	1.063
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.935	10/01/2003 19:21	34:10:00	32799.621	1.471		3.87	10/01/2003 16:37	31:26:40	8684.043	0.647
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	32800.586	6.093		2.42	9/01/2003 9:11	0:00:00	8681.88	1.613
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	16.117	10/01/2003 18:41	33:30:00	122.053	1.709		10.602	9/01/2003 11:44	2:33:20	121.234	1.712
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	16.117	10/01/2003 18:41	33:30:00	121.065	1.891		9.25	10/01/2003 15:11	30:00:00	120.952	1.891
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	16.117	10/01/2003 18:41	33:30:00	120.624	0.402		9.25	10/01/2003 15:11	30:00:00	120.633	0.402
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	16.116	10/01/2003 18:41	33:30:00	164.377	0.238		9.25	10/01/2003 15:11	30:00:00	119.181	0.238
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	16.116	10/01/2003 18:41	33:30:00	241.308	0.125		9.249	10/01/2003 15:11	30:00:00	117.032	0.124
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	13.129	9/01/2003 11:54	2:43:20	163.13	1.041		13.129	9/01/2003 11:51	2:40:00	162.999	1.041
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	11.148	10/01/2003 19:04	33:53:20	162.311	3.568		6.29	10/01/2003 15:24	30:13:19	162.311	3.568
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	11.148	10/01/2003 19:04	33:53:20	161.369	0.246		6.277	10/01/2003 15:44	30:33:19	161.345	0.247
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	11.147	10/01/2003 19:04	33:53:20	227.835	0.095		6.277	10/01/2003 15:50	30:39:59	159.507	0.095
214	ELEVENMILECK 3887.00			9/01/2003 9:11	11.147	10/01/2003 19:04	33:53:20	316.451	0.094		6.277	10/01/2003 15:50	30:39:59	158.019	0.094
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	38.43	10/01/2003 16:37	31:26:40	88.179	1.851		23.832	10/01/2003 11:57	26:46:40	87.499	1.851
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	38.426	10/01/2003 16:37	31:26:40	361.251	1.955		23.832	10/01/2003 11:57	26:46:40	186.216	11.5
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	38.426	10/01/2003 16:44	31:33:19	1263.315	0.215		23.832	10/01/2003 11:57	26:46:40	729.866	0.214
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	38.426	10/01/2003 16:44	31:33:19	1365.979	0.207		23.832	10/01/2003 11:57	26:46:40	788.267	0.206
219	SPELLWAY 0.00			9/01/2003 9:11	58.222	10/01/2003 9:34	24:23:20	16976.965	1.012		58.218	10/01/2003 9:31	24:20:00	15186.938	0.459
220	SPELLWAY 300.00			9/01/2003 9:11	51.145	10/01/2003 14:01	28:50:00	15146.225	0.557		30.333	10/01/2003 10:04	24:53:20	15142.651	0.557

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF - Failure					48hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
1	BOYNERIVER 0.00			9/01/2003 9:11	57.586	11/01/2003 1:21	40:10:00	18735.986	0.698	57.584	11/01/2003 1:24	40:13:19	18735.973	0.658
2	BOYNERIVER 100.00			9/01/2003 9:11	57.577	11/01/2003 1:07	39:56:39	122656.563	5.44	57.575	11/01/2003 1:04	39:53:20	17036.637	0.691
3	BOYNERIVER 100.00			9/01/2003 9:11	57.577	11/01/2003 1:07	39:56:39	111275.836	4.936	57.575	11/01/2003 1:04	39:53:20	2883.65	0.117
4	BOYNERIVER 150.00			9/01/2003 9:11	57.577	11/01/2003 1:07	39:56:39	110293.492	6.789	57.575	11/01/2003 1:04	39:53:20	2883.508	0.152
5	BOYNERIVER 350.00			9/01/2003 9:11	50.773	11/01/2003 5:24	44:13:19	107516.648	6.779	29.168	11/01/2003 1:30	40:19:59	2883.822	1.259
6	BOYNERIVER 420.00			9/01/2003 9:11	50.864	11/01/2003 5:21	44:10:00	106844.906	6.302	29.166	11/01/2003 1:30	40:19:59	2883.91	0.822
7	BOYNERIVER 420.00			9/01/2003 9:11	50.864	11/01/2003 5:21	44:10:00	104002.461	6.134	29.166	11/01/2003 1:30	40:19:59	17034.021	2.436
8	BOYNERIVER 817.70	B21.7	D/S Awoonga Dam	9/01/2003 9:11	50.779	11/01/2003 5:21	44:10:00	102296.141	4.616	28.673	11/01/2003 1:30	40:19:59	17034.025	2.588
9	BOYNERIVER 1383.80	B21.15		9/01/2003 9:11	47.949	11/01/2003 5:34	44:23:20	101952.063	8.024	27.798	11/01/2003 1:44	40:33:20	17033.816	2.941
10	BOYNERIVER 1985.90	B20.6		9/01/2003 9:11	44.84	11/01/2003 5:51	44:40:00	101573.992	9.366	26.71	11/01/2003 1:57	40:46:40	17032.803	3.275
11	BOYNERIVER 2182.33		Tucker Gully	9/01/2003 9:11	44.518	11/01/2003 5:57	44:46:40	101504.406	8.413	26.5	11/01/2003 1:57	40:46:40	17032.322	2.855
12	BOYNERIVER 2182.33			9/01/2003 9:11	44.518	11/01/2003 5:57	44:46:40	93506.711	7.359	26.5	11/01/2003 1:57	40:46:40	17073.277	2.861
13	BOYNERIVER 2462.80	B20.1		9/01/2003 9:11	43.242	11/01/2003 6:07	44:56:39	93454.68	7.501	25.997	11/01/2003 2:04	40:53:20	17073.375	2.989
14	BOYNERIVER 3120.26		Coomal Ck	9/01/2003 9:11	42.969	11/01/2003 6:11	45:00:00	93167.391	3.897	25.583	11/01/2003 2:04	40:53:20	17073.395	1.626
15	BOYNERIVER 3120.26			9/01/2003 9:11	42.969	11/01/2003 6:11	45:00:00	92094.891	3.777	25.583	11/01/2003 2:04	40:53:20	17091.92	1.627
16	BOYNERIVER 3313.40	B18.95	Pikes Crossing	9/01/2003 9:11	42.791	11/01/2003 6:11	45:00:00	92019.781	3.605	25.472	11/01/2003 2:04	40:53:20	17091.723	1.619
17	BOYNERIVER 3976.40	B18.3		9/01/2003 9:11	40.995	11/01/2003 7:04	45:53:20	91814.719	5.73	24.805	11/01/2003 2:24	41:13:19	17090.049	2.296
18	BOYNERIVER 4740.10	B17.6		9/01/2003 9:11	38.41	11/01/2003 8:17	47:06:39	91626.5	8.35	23.447	11/01/2003 2:44	41:33:20	17088.141	3.359
19	BOYNERIVER 5457.30	B17.0	Manns Weir 50m U/S	9/01/2003 9:11	38.269	11/01/2003 8:24	47:13:19	91285.203	4.735	23.035	11/01/2003 2:57	41:46:40	17086.66	1.68
20	BOYNERIVER 5457.30	B17.0	Little Oaky Ck	9/01/2003 9:11	38.269	11/01/2003 8:24	47:13:19	87990	4.481	23.035	11/01/2003 2:57	41:46:40	17085.213	1.679
21	BOYNERIVER 5934.10	B16.7		9/01/2003 9:11	38.225	11/01/2003 8:24	47:13:19	87605.367	3.143	22.781	11/01/2003 3:04	41:53:20	17083.455	2.201
22	BOYNERIVER 6676.80	B16.0	Yunka Ck	9/01/2003 9:11	37.942	11/01/2003 8:27	47:16:40	86728.133	2.914	22.385	11/01/2003 3:11	42:00:00	17079.926	1.723
23	BOYNERIVER 6676.80	B16.0		9/01/2003 9:11	37.942	11/01/2003 8:27	47:16:40	85069.781	2.829	22.385	11/01/2003 3:11	42:00:00	17190.508	1.739
24	BOYNERIVER 7293.40	B15.5		9/01/2003 9:11	37.623	11/01/2003 8:34	47:23:20	84217.258	3.342	21.893	11/01/2003 3:30	42:19:59	17186.566	2.072
25	BOYNERIVER 8050.70	B14.8	O'L Station Offtake	9/01/2003 9:11	37.22	11/01/2003 8:41	47:30:00	83133.289	3.838	21.435	11/01/2003 3:51	42:40:00	17182.5	2.098
26	BOYNERIVER 8050.70	B14.8	QR Railway Bridge	9/01/2003 9:11	37.22	11/01/2003 8:41	47:30:00	39157.754	2.073	21.435	11/01/2003 3:51	42:40:00	10720.494	2.066
27	BOYNERIVER 8522.40	B14.35		9/01/2003 9:11	37.165	11/01/2003 8:41	47:30:00	38483.27	1.939	21.327	11/01/2003 3:57	42:46:40	10717.526	1.583
28	BOYNERIVER 8856.20	B14.0		9/01/2003 9:11	37.158	11/01/2003 8:41	47:30:00	38038.883	1.487	21.306	11/01/2003 3:57	42:46:40	10715.194	0.967
29	BOYNERIVER 9247.40	B13.6		9/01/2003 9:11	36.963	11/01/2003 8:41	47:30:00	37665.988	3.093	21.171	11/01/2003 4:04	42:53:20	10712.863	1.742
30	BOYNERIVER 9679.30	B13.2		9/01/2003 9:11	36.738	11/01/2003 8:44	47:33:20	37414.504	3.781	20.988	11/01/2003 4:17	43:06:39	10711.373	1.929
31	BOYNERIVER 10080.40	B12.8		9/01/2003 9:11	36.8	11/01/2003 8:44	47:33:20	37130.238	2.526	20.93	11/01/2003 4:17	43:06:39	10713.52	1.74
32	BOYNERIVER 10401.00			9/01/2003 9:11	36.578	11/01/2003 8:47	47:36:39	36997.691	3.534	20.8	11/01/2003 4:30	43:19:59	10729.561	1.824
33	BOYNERIVER 10402.80			9/01/2003 9:11	36.581	11/01/2003 8:44	47:33:20	36998.496	3.535	20.803	11/01/2003 4:17	43:06:39	10729.837	1.826
34	BOYNERIVER 10412.80	B12.5		9/01/2003 9:11	36.592	11/01/2003 8:37	47:26:39	36989.82	3.532	20.816	11/01/2003 3:57	42:46:40	10728.929	1.823
35	BOYNERIVER 10414.00			9/01/2003 9:11	36.575	11/01/2003 8:47	47:36:39	36987.105	3.53	20.797	11/01/2003 4:24	43:13:19	10728.813	1.821
36	BOYNERIVER 10646.10	B12.2	Bruce H'way Bridge	9/01/2003 9:11	36.559	11/01/2003 8:47	47:36:39	36769.195	3.207	20.752	11/01/2003 4:24	43:13:19	10712.855	1.71
37	BOYNERIVER 10832.90		Station Ck	9/01/2003 9:11	36.423	11/01/2003 8:47	47:36:39	36656.316	3.768	20.658	11/01/2003 4:30	43:19:59	10708.796	2.108
38	BOYNERIVER 10832.90			9/01/2003 9:11	36.423	11/01/2003 8:47	47:36:39	67478.156	5.584	20.658	11/01/2003 4:30	43:19:59	17147.25	2.736
39	BOYNERIVER 11254.50	B11.6		9/01/2003 9:11	33.884	11/01/2003 8:54	47:43:19	67469.945	8.583	19.702	11/01/2003 4:57	43:46:40	17147.162	4.101
40	BOYNERIVER 11848.60	B11.05	Boyne Trib2 &	9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	67455.906	9.119	18.252	11/01/2003 4:57	43:46:40	17146.141	4.158
41	BOYNERIVER 11848.60	B11.05	O'L Boyne Offtake	9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	39304.145	5.38	18.252	11/01/2003 4:57	43:46:40	11532.397	2.797
42	BOYNERIVER 12303.00			9/01/2003 9:11	29.456	11/01/2003 9:17	48:06:39	39284.281	5.698	17.68	11/01/2003 5:37	44:26:39	11532.503	2.84

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF - Failure					48hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
43	BOYNERIVER 12303.00		Boyne Trib1	9/01/2003 9:11	29.456	11/01/2003 9:17	48:06:39	39000.699	5.579	17.68	11/01/2003 5:37	44:26:39	11531.177	2.839
44	BOYNERIVER 12455.40	B10.5		9/01/2003 9:11	29.025	11/01/2003 9:21	48:10:00	38996.043	5.707	17.471	11/01/2003 5:37	44:26:39	11530.96	2.865
45	BOYNERIVER 12785.40		Machine Ck	9/01/2003 9:11	28.244	11/01/2003 9:24	48:13:19	38983.922	5.614	16.932	11/01/2003 5:44	44:33:20	11530.417	3.021
46	BOYNERIVER 12785.40			9/01/2003 9:11	28.244	11/01/2003 9:24	48:13:19	38614.723	5.443	16.932	11/01/2003 5:44	44:33:20	11539.3	3.023
47	BOYNERIVER 12874.90	B10.2		9/01/2003 9:11	27.938	11/01/2003 9:27	48:16:40	38613.055	5.569	16.746	11/01/2003 5:51	44:40:00	11539.345	3.123
48	BOYNERIVER 13251.30	B9.8		9/01/2003 9:11	27.676	11/01/2003 9:27	48:16:40	38604.793	4.235	16.469	11/01/2003 5:51	44:40:00	11539.18	2.251
49	BOYNERIVER 13865.90	B9.1		9/01/2003 9:11	25.674	11/01/2003 9:37	48:26:39	38590.367	5.959	15.478	11/01/2003 5:51	44:40:00	11539.915	3.29
50	BOYNERIVER 14304.56		Wurdong Ck	9/01/2003 9:11	24.805	11/01/2003 9:44	48:33:20	38579.379	5.132	15.096	11/01/2003 5:57	44:46:40	11539.732	2.557
51	BOYNERIVER 14304.56			9/01/2003 9:11	24.805	11/01/2003 9:44	48:33:20	38295.211	5.05	15.096	11/01/2003 5:57	44:46:40	11573.881	2.564
52	BOYNERIVER 14472.20	B8.5		9/01/2003 9:11	24.522	11/01/2003 9:44	48:33:20	38294.496	4.782	14.987	11/01/2003 6:04	44:53:20	11573.777	2.351
53	BOYNERIVER 14964.20	B8.0		9/01/2003 9:11	24.113	11/01/2003 9:44	48:33:20	38290.934	3.351	14.615	11/01/2003 6:04	44:53:20	11573.271	2.049
54	BOYNERIVER 15341.20	B7.55		9/01/2003 9:11	22.785	11/01/2003 9:47	48:36:39	38287.363	4.796	13.928	11/01/2003 6:04	44:53:20	11573.079	2.984
55	BOYNERIVER 15741.50	B7.2		9/01/2003 9:11	22.433	11/01/2003 9:47	48:36:39	38282.676	2.89	13.499	11/01/2003 6:11	45:00:00	11573.092	2.187
56	BOYNERIVER 16062.90		O'L Boyne D/S	9/01/2003 9:11	22.142	11/01/2003 9:51	48:40:00	38277.816	2.4	13.335	11/01/2003 6:11	45:00:00	11573.18	1.523
57	BOYNERIVER 16062.90			9/01/2003 9:11	22.142	11/01/2003 9:51	48:40:00	33831.945	2.155	13.335	11/01/2003 6:11	45:00:00	11808.537	1.555
58	BOYNERIVER 16145.40	B6.8		9/01/2003 9:11	22.099	11/01/2003 9:51	48:40:00	33827.242	2.068	13.302	11/01/2003 6:11	45:00:00	11808.548	1.452
59	BOYNERIVER 16727.90	B6.2		9/01/2003 9:11	20.933	11/01/2003 9:54	48:43:19	33804.898	4.734	12.682	11/01/2003 6:11	45:00:00	11808.7	2.774
60	BOYNERIVER 17358.60	B5.55		9/01/2003 9:11	20.029	11/01/2003 10:00	48:49:59	33790.492	4.859	12.077	11/01/2003 6:17	45:06:39	11808.842	2.874
61	BOYNERIVER 17722.19		South Trees	9/01/2003 9:11	18.426	11/01/2003 10:07	48:56:39	33781.547	7.259	11.052	11/01/2003 6:24	45:13:19	11808.827	4.679
62	BOYNERIVER 17722.19			9/01/2003 9:11	18.426	11/01/2003 10:07	48:56:39	4397.933	2.088	11.052	11/01/2003 6:24	45:13:19	3934.726	2.088
63	BOYNERIVER 17874.50			9/01/2003 9:11	18.425	11/01/2003 10:07	48:56:39	4380.911	2.387	10.956	11/01/2003 6:24	45:13:19	3934.595	2.387
64	BOYNERIVER 18184.66		Cattle Ck	9/01/2003 9:11	18.425	11/01/2003 10:07	48:56:39	4344.072	2.09	10.899	11/01/2003 6:24	45:13:19	3934.307	2.091
65	BOYNERIVER 18184.66			9/01/2003 9:11	18.425	11/01/2003 10:07	48:56:39	32791.641	6.71	10.899	11/01/2003 6:24	45:13:19	9319.911	3.586
66	BOYNERIVER 18476.20	B4.5		9/01/2003 9:11	17.842	11/01/2003 10:11	49:00:00	32791.441	6.122	10.604	11/01/2003 6:24	45:13:19	9319.89	3.077
67	BOYNERIVER 18884.20	B4.05		9/01/2003 9:11	16.03	11/01/2003 10:11	49:00:00	32790.992	7.203	9.865	11/01/2003 6:30	45:19:59	9319.876	3.485
68	BOYNERIVER 19282.40	B3.65		9/01/2003 9:11	16.068	11/01/2003 10:11	49:00:00	32789.941	3.916	9.738	11/01/2003 6:30	45:19:59	9319.86	2.088
69	BOYNERIVER 19869.50	B3.15		9/01/2003 9:11	15.704	11/01/2003 10:14	49:03:20	32786.895	2.665	9.315	11/01/2003 6:30	45:19:59	9319.816	1.904
70	BOYNERIVER 20263.70	B2.75		9/01/2003 9:11	14.57	11/01/2003 10:14	49:03:20	32785.887	4.734	8.724	11/01/2003 6:30	45:19:59	9319.793	2.72
71	BOYNERIVER 20684.60	B2.45		9/01/2003 9:11	14.287	11/01/2003 10:14	49:03:20	32784.145	2.911	8.232	11/01/2003 6:30	45:19:59	9319.782	2.316
72	BOYNERIVER 20866.30	B2.25		9/01/2003 9:11	13.975	11/01/2003 10:14	49:03:20	32783.652	3.11	8.092	11/01/2003 6:30	45:19:59	9319.775	1.984
73	BOYNERIVER 21269.40	B1.85	John Oxley Bridge	9/01/2003 9:11	12.988	11/01/2003 10:14	49:03:20	32783.504	4.041	7.347	11/01/2003 6:30	45:19:59	9319.762	2.983
74	BOYNERIVER 21471.70	B1.65		9/01/2003 9:11	11.525	11/01/2003 10:14	49:03:20	32783.402	7.622	6.335	11/01/2003 6:30	45:19:59	9319.758	4.872
75	BOYNERIVER 21861.20	B1.2		9/01/2003 9:11	9.404	11/01/2003 10:14	49:03:20	32783.125	4.878	5.581	11/01/2003 6:37	45:26:39	9319.75	2.875
76	BOYNERIVER 22251.30	B0.9		9/01/2003 9:11	6.886	11/01/2003 10:17	49:06:39	32782.703	5.481	4.312	11/01/2003 6:37	45:26:39	9319.757	2.959
77	BOYNERIVER 22636.00	B0.5		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	32782.836	27.383	2.42	9/01/2003 9:11	0:00:00	9319.76	7.785
78	COOMALCK 0.00	C1		9/01/2003 9:11	43.006	11/01/2003 5:51	44:40:00	137.451	1.714	37.74	9/01/2003 11:44	2:33:20	137.394	1.711
79	COOMALCK 398.20	C2		9/01/2003 9:11	42.995	11/01/2003 6:04	44:53:20	137.368	1.676	33.058	9/01/2003 11:44	2:33:20	137.248	1.676
80	COOMALCK 794.20	C3		9/01/2003 9:11	42.992	11/01/2003 6:04	44:53:20	137.398	1.431	29.377	9/01/2003 11:51	2:40:00	137.308	1.784
81	COOMALCK 1209.50	C4		9/01/2003 9:11	42.972	11/01/2003 6:14	45:03:20	137.25	1.404	26.311	9/01/2003 9:24	0:13:20	137.245	2.861
82	COOMALCK 1813.30	C5		9/01/2003 9:11	42.971	11/01/2003 6:07	44:56:39	138.635	1.77	25.583	11/01/2003 2:04	40:53:20	249.187	5.118
83	COOMALCK 2352.80	C6		9/01/2003 9:11	42.972	11/01/2003 6:07	44:56:39	206.557	1.036	25.582	11/01/2003 2:04	40:53:20	236.273	1.035
84	COOMALCK 3112.20	C7		9/01/2003 9:11	42.977	11/01/2003 6:07	44:56:39	392.67	1.867	25.583	11/01/2003 2:11	41:00:00	471.855	1.866
85	COOMALCK 3751.30	C8		9/01/2003 9:11	42.971	11/01/2003 6:07	44:56:39	567.318	0.982	25.583	11/01/2003 2:04	40:53:20	515.152	0.982
86	COOMALCK 4222.50	C9		9/01/2003 9:11	42.969	11/01/2003 6:11	45:00:00	663.447	2.468	25.583	11/01/2003 2:04	40:53:20	511.583	2.462
87	COOMALCK 4305.00			9/01/2003 9:11	42.969	11/01/2003 6:11	45:00:00	671.52	27.793	25.583	11/01/2003 2:04	40:53:20	511.944	26.633

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF - Failure					48hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
88	YUNKACK 0.00	Y1		9/01/2003 9:11	37.946	11/01/2003 8:30	47:19:59	470.993	2.444	36.578	9/01/2003 13:37	4:26:40	470.697	2.443
89	YUNKACK 574.20	Y2		9/01/2003 9:11	37.943	11/01/2003 8:27	47:16:40	470.745	2.547	28.006	9/01/2003 13:44	4:33:19	470.497	2.547
90	YUNKACK 948.90	Y3		9/01/2003 9:11	37.943	11/01/2003 8:27	47:16:40	470.665	1.979	23.645	9/01/2003 13:44	4:33:19	470.676	1.978
91	YUNKACK 1253.10	Y4		9/01/2003 9:11	37.943	11/01/2003 8:27	47:16:40	470.646	5.434	22.386	11/01/2003 3:11	42:00:00	470.646	7.407
92	YUNKACK 1835.50	Y5		9/01/2003 9:11	37.943	11/01/2003 8:27	47:16:40	471.216	2.572	22.385	11/01/2003 3:11	42:00:00	471.133	2.572
93	YUNKACK 2434.60	Y6		9/01/2003 9:11	37.943	11/01/2003 8:27	47:16:40	503.722	2.561	22.385	11/01/2003 3:11	42:00:00	467.943	2.557
94	YUNKACK 2763.00	Y7		9/01/2003 9:11	37.942	11/01/2003 8:27	47:16:40	637.53	80.984	22.385	11/01/2003 3:11	42:00:00	463.799	69.594
95	TUCKERGULLY 0.00			9/01/2003 9:11	44.57	11/01/2003 5:57	44:46:40	221.077	0.783	36.533	9/01/2003 12:44	3:33:20	221.054	0.783
96	TUCKERGULLY 1066.80	TU-1		9/01/2003 9:11	44.563	11/01/2003 5:54	44:43:19	220.491	2.134	34.484	9/01/2003 12:44	3:33:20	220.491	2.135
97	TUCKERGULLY 1965.80	TU-2		9/01/2003 9:11	44.558	11/01/2003 5:57	44:46:40	250.639	1.805	29.501	9/01/2003 12:57	3:46:39	220.402	1.805
98	TUCKERGULLY 2491.10	TU-3		9/01/2003 9:11	44.56	11/01/2003 5:57	44:46:40	309.214	2.252	26.513	11/01/2003 1:30	40:19:59	220.377	2.252
99	TUCKERGULLY 3217.50	TU-4		9/01/2003 9:11	44.545	11/01/2003 5:57	44:46:40	395.397	2.017	26.5	11/01/2003 1:51	40:40:00	220.341	2.016
100	TUCKERGULLY 3966.50	TU-5		9/01/2003 9:11	44.537	11/01/2003 6:00	44:49:59	515.832	1.637	26.5	11/01/2003 2:04	40:53:20	220.213	1.637
101	TUCKERGULLY 4522.10	TU-6		9/01/2003 9:11	44.538	11/01/2003 6:00	44:49:59	653.267	1.792	26.5	11/01/2003 1:51	40:40:00	220.146	1.792
102	TUCKERGULLY 5384.20	TU-7	Awoonga Dam Rd Xing	9/01/2003 9:11	44.538	11/01/2003 6:00	44:49:59	888.999	2.539	26.5	11/01/2003 2:11	41:00:00	267.586	2.538
103	TUCKERGULLY 5765.40		Tucker Trib	9/01/2003 9:11	44.53	11/01/2003 5:57	44:46:40	978.398	2.777	26.5	11/01/2003 1:44	40:33:20	331.459	2.775
104	TUCKERGULLY 5765.40			9/01/2003 9:11	44.53	11/01/2003 5:57	44:46:40	1720.802	2.788	26.5	11/01/2003 1:44	40:33:20	503.564	3.428
105	TUCKERGULLY 6350.10	TU-8		9/01/2003 9:11	44.522	11/01/2003 5:57	44:46:40	1948.129	1.333	26.5	11/01/2003 1:57	40:46:40	635.885	1.33
106	TUCKERGULLY 6669.00	TU-9		9/01/2003 9:11	44.518	11/01/2003 5:57	44:46:40	2102.065	5.843	26.5	11/01/2003 1:57	40:46:40	735.122	5.731
107	TUCKERTRIB 0.00			9/01/2003 9:11	44.557	11/01/2003 5:54	44:43:19	2.5	0.274	30.815	9/01/2003 9:11	0:00:00	2.5	0.274
108	TUCKERTRIB 206.20	T1-1		9/01/2003 9:11	44.555	11/01/2003 5:54	44:43:19	98.173	0.639	30.261	9/01/2003 9:11	0:00:00	2.5	0.542
109	TUCKERTRIB 730.40	T1-2		9/01/2003 9:11	44.527	11/01/2003 6:04	44:53:20	232.843	3.288	27.265	9/01/2003 9:11	0:00:00	14.141	6.659
110	TUCKERTRIB 1416.70	T1-3		9/01/2003 9:11	44.525	11/01/2003 6:04	44:53:20	276.547	1.023	26.5	11/01/2003 1:51	40:40:00	45.01	1.27
111	TUCKERTRIB 1944.80	T1-4		9/01/2003 9:11	44.537	11/01/2003 5:51	44:40:00	394.775	0.316	26.501	11/01/2003 1:57	40:46:40	70.672	0.316
112	TUCKERTRIB 2331.50	T1-5		9/01/2003 9:11	44.52	11/01/2003 5:51	44:40:00	483.925	0.652	26.502	11/01/2003 2:17	41:06:39	100.137	0.652
113	TUCKERTRIB 2914.70	T1-6	Awoonga Dam Rd Xing	9/01/2003 9:11	44.523	11/01/2003 6:00	44:49:59	615.41	0.387	26.501	11/01/2003 1:37	40:26:39	134.145	0.387
114	TUCKERTRIB 3377.00			9/01/2003 9:11	44.53	11/01/2003 5:57	44:46:40	788.845	6.064	26.5	11/01/2003 1:44	40:33:20	172.105	8.333
115	STATIONCK 0.00	S1		9/01/2003 9:11	36.462	11/01/2003 8:47	47:36:39	167.994	0.996	20.684	11/01/2003 4:30	43:19:59	167.732	0.995
116	STATIONCK 684.50	S2		9/01/2003 9:11	36.462	11/01/2003 8:47	47:36:39	464.385	1.148	20.684	11/01/2003 4:30	43:19:59	168.682	1.058
117	STATIONCK 1599.70	S3		9/01/2003 9:11	36.462	11/01/2003 8:47	47:36:39	1212.844	1.16	20.684	11/01/2003 4:37	43:26:39	310.513	1.154
118	STATIONCK 2431.30	S4		9/01/2003 9:11	36.461	11/01/2003 8:47	47:36:39	1943.301	1.087	20.684	11/01/2003 4:30	43:19:59	489.91	1.087
119	STATIONCK 3013.70	S5		9/01/2003 9:11	36.461	11/01/2003 8:47	47:36:39	2500.388	0.631	20.684	11/01/2003 4:24	43:13:19	627.923	0.629
120	STATIONCK 3734.90	S6	Bruce H'way	9/01/2003 9:11	36.46	11/01/2003 8:47	47:36:39	3089.283	0.836	20.684	11/01/2003 4:30	43:19:59	821.845	0.825
121	STATIONCK 4481.70	S7		9/01/2003 9:11	36.459	11/01/2003 8:47	47:36:39	3563.63	0.893	20.684	11/01/2003 4:30	43:19:59	1039.906	0.892
122	STATIONCK 5140.80	S8		9/01/2003 9:11	36.458	11/01/2003 8:47	47:36:39	4019.986	0.288	20.684	11/01/2003 4:30	43:19:59	1289.691	0.288
123	STATIONCK 5918.90	S9		9/01/2003 9:11	36.457	11/01/2003 8:47	47:36:39	4612.145	0.16	20.684	11/01/2003 4:24	43:13:19	1623.38	0.158
124	STATIONCK 6575.50	S10		9/01/2003 9:11	36.456	11/01/2003 8:47	47:36:39	5038.4	0.235	20.684	11/01/2003 4:24	43:13:19	1824.459	0.265
125	STATIONCK 6954.40		O'L Station D/S	9/01/2003 9:11	36.455	11/01/2003 8:47	47:36:39	5255.014	0.29	20.684	11/01/2003 4:24	43:13:19	1903.518	0.322
126	STATIONCK 6954.40			9/01/2003 9:11	36.455	11/01/2003 8:47	47:36:39	36993.441	0.935	20.684	11/01/2003 4:24	43:13:19	6478.581	0.516
127	STATIONCK 7691.00	S11		9/01/2003 9:11	36.423	11/01/2003 8:47	47:36:39	37114.602	0.916	20.658	11/01/2003 4:30	43:19:59	6482.45	0.58
128	MACHINECK 0.00	M1		9/01/2003 9:11	33.615	9/01/2003 11:44	2:33:20	100.676	0.982	33.615	9/01/2003 11:44	2:33:20	100.035	0.98
129	MACHINECK 726.30	M2		9/01/2003 9:11	28.714	9/01/2003 11:51	2:40:00	99.47	0.97	28.714	9/01/2003 11:51	2:40:00	99.459	0.958
130	MACHINECK 1186.80	M3		9/01/2003 9:11	28.248	11/01/2003 9:24	48:13:19	99.141	1.269	26.615	9/01/2003 11:57	2:46:39	99.105	1.268
131	MACHINECK 1699.10	M4		9/01/2003 9:11	28.248	11/01/2003 9:24	48:13:19	98.658	0.639	22.924	9/01/2003 12:11	3:00:00	98.66	0.639
132	MACHINECK 2214.80	M5		9/01/2003 9:11	28.247	11/01/2003 9:24	48:13:19	98.511	2.051	20.809	9/01/2003 12:04	2:53:19	98.474	2.778



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF - Failure					48hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
133	MACHINECK 2730.60	M6		9/01/2003 9:11	28.247	11/01/2003 9:24	48:13:19	98.492	1.421	17.122	9/01/2003 12:11	3:00:00	98.493	1.419
134	MACHINECK 3140.90	M7		9/01/2003 9:11	28.247	11/01/2003 9:24	48:13:19	134.908	1.77	16.932	11/01/2003 5:17	44:06:39	98.396	1.771
135	MACHINECK 3611.90	M8		9/01/2003 9:11	28.247	11/01/2003 9:24	48:13:19	189.688	0.836	16.932	11/01/2003 5:30	44:19:59	98.037	0.835
136	MACHINECK 4246.80	M9	Road/Rail X-ing	9/01/2003 9:11	28.246	11/01/2003 9:24	48:13:19	294.291	2.628	16.932	11/01/2003 5:44	44:33:20	96.998	19.446
137	MACHINECK 5099.90	M10		9/01/2003 9:11	28.246	11/01/2003 9:24	48:13:19	452.452	2.087	16.932	11/01/2003 6:11	45:00:00	152.465	2.088
138	MACHINECK 5868.40	M11	Bruce H'way 100m U/S	9/01/2003 9:11	28.245	11/01/2003 9:24	48:13:19	599.185	0.73	16.932	11/01/2003 5:51	44:40:00	244.947	0.723
139	MACHINECK 6711.00	M12		9/01/2003 9:11	28.244	11/01/2003 9:24	48:13:19	725.192	0.592	16.932	11/01/2003 5:44	44:33:20	328.843	0.591
140	O'NSTATION 0.00			9/01/2003 9:11	37.22	11/01/2003 8:41	47:30:00	44197.148	1.85	21.435	11/01/2003 3:51	42:40:00	6466.482	1.602
141	O'NSTATION 304.10	O2-1		9/01/2003 9:11	37.186	11/01/2003 8:41	47:30:00	43736.734	1.968	21.381	11/01/2003 3:57	42:46:40	6464.998	1.965
142	O'NSTATION 1252.20	O2-2		9/01/2003 9:11	37.054	11/01/2003 8:41	47:30:00	42470.992	4.582	21.213	11/01/2003 4:04	42:53:20	6461.133	4.231
143	O'NSTATION 1924.60	O2-3		9/01/2003 9:11	36.777	11/01/2003 8:44	47:33:20	41836.367	3.72	20.992	11/01/2003 4:17	43:06:39	6458.958	3.455
144	O'NSTATION 2385.50			9/01/2003 9:11	36.532	11/01/2003 8:47	47:36:39	41527.215	4.05	20.778	11/01/2003 4:24	43:13:19	6457.901	2.461
145	O'NSTATION 2588.00	O2-4	Bruce H'way	9/01/2003 9:11	36.455	11/01/2003 8:47	47:36:39	41394.629	4.102	20.684	11/01/2003 4:24	43:13:19	6457.627	3.069
146	WURDONGCK 0.00	W1		9/01/2003 9:11	27.313	9/01/2003 12:14	3:03:20	203.685	1.272	27.313	9/01/2003 12:17	3:06:40	203.67	1.222
147	WURDONGCK 616.40	W2		9/01/2003 9:11	24.807	11/01/2003 9:44	48:33:20	203.571	1.2	22.025	9/01/2003 12:24	3:13:20	203.571	1.2
148	WURDONGCK 1311.60	W3		9/01/2003 9:11	24.806	11/01/2003 9:44	48:33:20	203.481	1.247	17.003	9/01/2003 12:37	3:26:39	203.48	1.483
149	WURDONGCK 1752.90	W4		9/01/2003 9:11	24.806	11/01/2003 9:44	48:33:20	203.509	1.049	15.098	11/01/2003 6:04	44:53:20	203.51	3.935
150	WURDONGCK 2482.50	W5	GLD/Benaraby Rd 100m D/S	9/01/2003 9:11	24.806	11/01/2003 9:44	48:33:20	293.062	0.992	15.096	11/01/2003 6:04	44:53:20	203.075	3.336
151	WURDONGCK 3446.50	W6		9/01/2003 9:11	24.806	11/01/2003 9:44	48:33:20	700.202	0.463	15.096	11/01/2003 6:11	45:00:00	243.104	0.462
152	WURDONGCK 4664.00	W7		9/01/2003 9:11	24.805	11/01/2003 9:44	48:33:20	1119.155	1.887	15.096	11/01/2003 5:57	44:46:40	496.996	1.885
153	BOYNETRIB1 0.00	T2-1		9/01/2003 9:11	29.457	11/01/2003 9:17	48:06:39	3.5	0.268	24.036	9/01/2003 9:11	0:00:00	3.5	0.268
154	BOYNETRIB1 573.10	T2-2		9/01/2003 9:11	29.457	11/01/2003 9:17	48:06:39	51.015	3.427	17.69	11/01/2003 4:44	43:33:20	29.778	6.222
155	BOYNETRIB1 1368.30	T2-3		9/01/2003 9:11	29.457	11/01/2003 9:17	48:06:39	162.71	0.141	17.68	11/01/2003 4:57	43:46:40	41.363	0.233
156	BOYNETRIB1 1848.20	T2-4	Bruce H'way 75m D/S	9/01/2003 9:11	29.456	11/01/2003 9:17	48:06:39	251.812	0.451	17.679	11/01/2003 5:37	44:26:39	54.59	0.446
157	BOYNETRIB1 2194.80	T2-5		9/01/2003 9:11	29.456	11/01/2003 9:17	48:06:39	311.882	0.548	17.68	11/01/2003 5:37	44:26:39	92.925	17.752
158	BOYNETRIB1 2663.00	T2-6		9/01/2003 9:11	29.456	11/01/2003 9:17	48:06:39	373.877	2.993	17.68	11/01/2003 5:37	44:26:39	141.631	2.992
159	BOYNETRIB2 0.00	T3-1		9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	1.5	0.167	18.325	9/01/2003 9:11	0:00:00	1.5	0.167
160	BOYNETRIB2 381.20	T3-2		9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	71.469	0.392	18.252	11/01/2003 5:17	44:06:39	52.375	10.54
161	BOYNETRIB2 713.60	T3-3		9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	143.925	0.641	18.252	11/01/2003 5:17	44:06:39	45.7	0.641
162	BOYNETRIB2 1247.10	T3-4		9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	255.839	0.519	18.252	11/01/2003 4:57	43:46:40	74.489	0.519
163	BOYNETRIB2 1804.00	T3-5		9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	404.643	1.329	18.252	11/01/2003 4:57	43:46:40	136.258	1.329
164	O'LANDBOYNE 0.00			9/01/2003 9:11	30.57	11/01/2003 9:07	47:56:39	28187.416	7.874	18.252	11/01/2003 4:57	43:46:40	5618.758	3.366
165	O'LANDBOYNE 462.10	O3-1		9/01/2003 9:11	25.014	11/01/2003 9:14	48:03:20	28185.623	10.382	15.554	11/01/2003 5:30	44:19:59	5618.763	4.493
166	O'LANDBOYNE 843.90	O3-2		9/01/2003 9:11	22.943	11/01/2003 9:41	48:30:00	28178.623	4.861	14.568	11/01/2003 5:57	44:46:40	5618.347	2.222
167	O'LANDBOYNE 1492.50	O3-3		9/01/2003 9:11	22.218	11/01/2003 9:47	48:36:39	28136.637	3.267	13.509	11/01/2003 6:11	45:00:00	5617.756	2.755
168	O'LANDBOYNE 1924.31		O'Land01 U/S	9/01/2003 9:11	22.141	11/01/2003 9:51	48:40:00	28095.451	1.917	13.335	11/01/2003 6:11	45:00:00	5617.402	1.01
169	O'LANDBOYNE 1924.31			9/01/2003 9:11	22.141	11/01/2003 9:51	48:40:00	2206.084	0.502	13.335	11/01/2003 6:11	45:00:00	864.935	0.502
170	O'LANDBOYNE 2032.00	O3-4		9/01/2003 9:11	22.142	11/01/2003 9:51	48:40:00	2135.789	0.728	13.335	11/01/2003 6:11	45:00:00	854.005	0.728
171	O'LAND01 0.00			9/01/2003 9:11	22.141	11/01/2003 9:51	48:40:00	32436.906	3.342	13.335	11/01/2003 6:11	45:00:00	5380.455	1.532
172	O'LAND01 415.30	O4-01		9/01/2003 9:11	21.314	11/01/2003 9:54	48:43:19	32425.93	3.582	12.897	11/01/2003 6:11	45:00:00	5380.513	1.648
173	O'LAND01 1018.80	O4-02		9/01/2003 9:11	20.754	11/01/2003 9:57	48:46:40	32405.311	2.926	12.365	11/01/2003 6:17	45:06:39	5380.52	1.495
174	O'LAND01 1360.20	O4-03		9/01/2003 9:11	20.545	11/01/2003 9:57	48:46:40	32392.234	2.536	12.109	11/01/2003 6:17	45:06:39	5380.423	1.229
175	O'LAND01 1988.30	O4-04		9/01/2003 9:11	20.223	11/01/2003 10:00	48:49:59	32364.629	2.177	11.83	11/01/2003 6:24	45:13:19	5380.208	0.974
176	O'LAND01 2586.50	O4-05		9/01/2003 9:11	19.973	11/01/2003 10:00	48:49:59	32337.918	1.995	11.672	11/01/2003 6:24	45:13:19	5380.111	0.848
177	O'LAND01 3091.00	O4-06		9/01/2003 9:11	19.276	11/01/2003 10:07	48:56:39	32318.629	3.521	11.283	11/01/2003 6:24	45:13:19	5380.063	2.321

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

### 48hr PMF Failure & No Failure

No.	River/Branch Name	Cross Section ID	Location	Start of Computation	48hr - PMF - Failure					48hr - PMF - No Failure				
					Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity	Maximum		Time to Max WL	Maximum Discharge	Maximum Velocity
					WL (m)	Time	(hrs:min:sec)	m**3/s	m/s	WL (m)	Time	(hrs:min:sec)	m**3/s	m/s
178	CATTLECK 0.00	CC1	Tannum Sands Rd 50m D/S	9/01/2003 9:11	19.277	11/01/2003 10:07	48:56:39	55.289	0.305	11.283	11/01/2003 6:24	45:13:19	55.264	0.305
179	CATTLECK 743.60	CC2		9/01/2003 9:11	19.276	11/01/2003 10:07	48:56:39	179.66	0.859	11.283	11/01/2003 6:24	45:13:19	54.138	0.859
180	CATTLECK 1293.10	CC3		9/01/2003 9:11	19.276	11/01/2003 10:07	48:56:39	306.054	0.765	11.283	11/01/2003 6:24	45:13:19	79.74	0.764
181	CATTLECK 1994.43		O'Land 01 D/S	9/01/2003 9:11	19.276	11/01/2003 10:07	48:56:39	441.353	0.172	11.283	11/01/2003 6:24	45:13:19	143.402	0.172
182	CATTLECK 1994.43			9/01/2003 9:11	19.276	11/01/2003 10:07	48:56:39	32236.24	2.44	11.283	11/01/2003 6:24	45:13:19	5386.793	0.985
183	CATTLECK 2124.80	CC4		9/01/2003 9:11	18.88	11/01/2003 10:07	48:56:39	32234.127	3.459	11.103	11/01/2003 6:24	45:13:19	5386.78	2.033
184	CATTLECK 2335.00			9/01/2003 9:11	18.425	11/01/2003 10:07	48:56:39	32230.686	3.654	10.899	11/01/2003 6:24	45:13:19	5386.759	2.103
185	STHTREES 0.00	ST1	Sth Trees/BoyneR Bifurcate	9/01/2003 9:11	18.426	11/01/2003 10:07	48:56:39	33276.254	1.906	11.052	11/01/2003 6:24	45:13:19	7875.938	1.85
186	STHTREES 851.80	ST2		9/01/2003 9:11	17.671	11/01/2003 10:14	49:03:20	33161.734	1.757	10.049	11/01/2003 6:37	45:26:39	7874.874	1.077
187	STHTREES 1579.60	ST3	Boyne Is Rd Bridge	9/01/2003 9:11	17.415	11/01/2003 10:17	49:06:39	33072.051	1.774	9.78	11/01/2003 6:44	45:33:20	7873.968	1.332
188	STHTREES 2361.30	ST4		9/01/2003 9:11	17.191	11/01/2003 10:21	49:10:00	32986.945	1.598	9.563	11/01/2003 6:51	45:40:00	7873.235	0.898
189	STHTREES 2829.50	ST5		9/01/2003 9:11	17.147	11/01/2003 10:21	49:10:00	32935.504	1.168	9.491	11/01/2003 6:51	45:40:00	7872.831	0.71
190	STHTREES 3773.50	ST6		9/01/2003 9:11	16.947	11/01/2003 10:21	49:10:00	32858.82	1.399	9.348	11/01/2003 6:51	45:40:00	7872.37	0.754
191	STHTREES 4171.60	ST7		9/01/2003 9:11	16.754	11/01/2003 10:21	49:10:00	32841.754	1.938	9.263	11/01/2003 6:51	45:40:00	7872.317	0.942
192	STHTREES 4595.40	ST8		9/01/2003 9:11	16.407	11/01/2003 10:24	49:13:19	32829.613	2.607	9.097	11/01/2003 6:51	45:40:00	7872.323	1.349
193	STHTREES 5122.39		Ten Mile Ck	9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	32815.691	2.469	8.858	11/01/2003 6:51	45:40:00	7872.323	1.412
194	STHTREES 5122.39			9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	32784.477	2.459	8.858	11/01/2003 6:51	45:40:00	7882.759	1.414
195	STHTREES 5493.40	ST9		9/01/2003 9:11	15.63	11/01/2003 10:27	49:16:40	32779.629	2.987	8.671	11/01/2003 6:51	45:40:00	7882.688	1.516
196	STHTREES 6390.90	ST10		9/01/2003 9:11	13.484	11/01/2003 10:30	49:19:59	32770.605	6.216	7.486	11/01/2003 6:57	45:46:40	7882.553	3.814
197	STHTREES 7658.80	ST11		9/01/2003 9:11	11.412	11/01/2003 10:44	49:33:20	32736.582	1.72	6.14	11/01/2003 7:17	46:06:39	7881.984	0.792
198	STHTREES 8251.05		Eleven Mile Ck	9/01/2003 9:11	11.118	11/01/2003 10:47	49:36:39	32711.738	1.835	6.005	11/01/2003 7:17	46:06:39	7881.658	0.882
199	STHTREES 8251.05			9/01/2003 9:11	11.118	11/01/2003 10:47	49:36:39	32660.229	1.828	6.005	11/01/2003 7:17	46:06:39	7889.329	0.883
200	STHTREES 9287.10	ST12		9/01/2003 9:11	10.387	11/01/2003 10:51	49:40:00	32642.348	2.175	5.664	11/01/2003 7:24	46:13:19	7888.733	1.084
201	STHTREES 11258.10	ST13		9/01/2003 9:11	8.82	11/01/2003 10:57	49:46:40	32615.105	1.891	4.904	11/01/2003 7:37	46:26:39	7887.759	0.948
202	STHTREES 12688.10	ST14		9/01/2003 9:11	7.5	11/01/2003 11:00	49:49:59	32599.15	1.863	4.284	11/01/2003 7:51	46:40:00	7887.122	1.012
203	STHTREES 14444.90	ST15		9/01/2003 9:11	5.931	11/01/2003 11:04	49:53:20	32594.664	1.463	3.73	11/01/2003 8:11	47:00:00	7886.11	0.615
204	STHTREES 17478.00	ST16		9/01/2003 9:11	2.42	9/01/2003 9:11	0:00:00	32594.658	6.055	2.42	9/01/2003 9:11	0:00:00	7885.674	1.465
205	TENMILECK 0.00	T4-1	GLD/Benaraby Boyne X-ing	9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	88.46	1.709	10.371	9/01/2003 11:44	2:33:20	87.804	1.709
206	TENMILECK 510.20	T4-2		9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	87.996	1.683	8.858	11/01/2003 6:51	45:40:00	87.99	3.157
207	TENMILECK 1040.50	T4-3		9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	87.738	0.319	8.858	11/01/2003 6:51	45:40:00	87.501	0.319
208	TENMILECK 1753.90	T4-4		9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	147.576	0.177	8.858	11/01/2003 6:51	45:40:00	86.801	0.177
209	TENMILECK 2298.00	T4-5		9/01/2003 9:11	16.072	11/01/2003 10:24	49:13:19	216.835	0.092	8.858	11/01/2003 6:51	45:40:00	97.207	0.091
210	ELEVENMILECK 0.00	T5-1		9/01/2003 9:11	12.456	9/01/2003 11:47	2:36:40	73.109	0.766	12.456	9/01/2003 11:44	2:33:20	72.659	0.766
211	ELEVENMILECK 883.90	T5-2	GLD/Benaraby Rd	9/01/2003 9:11	11.119	11/01/2003 10:47	49:36:39	72.02	3.03	6.005	11/01/2003 7:17	46:06:39	72.021	3.03
212	ELEVENMILECK 1811.40	T5-3		9/01/2003 9:11	11.119	11/01/2003 10:47	49:36:39	76.904	0.114	6.005	11/01/2003 7:24	46:13:19	72.224	0.115
213	ELEVENMILECK 3118.20	T5-4		9/01/2003 9:11	11.119	11/01/2003 10:47	49:36:39	205.495	0.043	6.005	11/01/2003 7:17	46:06:39	92.79	0.044
214	ELEVENMILECK 3887.00			9/01/2003 9:11	11.118	11/01/2003 10:47	49:36:39	285.416	0.047	6.005	11/01/2003 7:17	46:06:39	138.873	0.053
215	LITTLEOAKYCK 0.00	O1-1A		9/01/2003 9:11	38.269	11/01/2003 8:21	47:10:00	89.56	1.329	23.035	11/01/2003 2:57	41:46:40	88.739	1.338
216	LITTLEOAKYCK 670.00	O1-2A		9/01/2003 9:11	38.269	11/01/2003 8:24	47:13:19	314.111	1.98	23.035	11/01/2003 2:57	41:46:40	179.119	11.502
217	LITTLEOAKYCK 1834.00	O1-3A		9/01/2003 9:11	38.269	11/01/2003 8:24	47:13:19	1119.821	0.179	23.035	11/01/2003 2:57	41:46:40	677.617	0.178
218	LITTLEOAKYCK 1958.00			9/01/2003 9:11	38.269	11/01/2003 8:24	47:13:19	1210.831	0.168	23.035	11/01/2003 2:57	41:46:40	731.728	0.167
219	SPILLWAY 0.00			9/01/2003 9:11	57.577	11/01/2003 1:07	39:56:39	15750.697	1.135	57.575	11/01/2003 1:04	39:53:20	14154.96	0.435
220	SPILLWAY 300.00			9/01/2003 9:11	50.864	11/01/2003 5:21	44:10:00	14152.548	0.543	29.166	11/01/2003 1:30	40:19:59	14150.174	0.543

# **AWOONGA DAM**

## **BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**

### **VOLUME II**

#### **SECTION 6.0                      DAM BREAK STUDY – Sensitivity Analyses**

- Table 6.1 – FSL40, PMF Failure (48hr) – Sensitivity Analysis on Time for Failure & Breach Width
- Table 6.2 – FSL45, PMF Failure (48hr) – Sensitivity Analysis on Time for Failure & Breach Width
- Table 6.3 – FSL55, PMF Failure (24hr) – Sensitivity Analysis on Time for Failure & Breach Width

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 300m Time = 4hrs	Time = 3.5hrs	Time = 4.5hrs	Width = 250m	Width = 325m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00		0		52.29	52.29	52.29	52.29	52.29
2	BOYNERIVER 100.00		100		52.283	52.283	52.283	52.283	52.283
3	BOYNERIVER 100.00		100		52.283	52.283	52.283	52.283	52.283
4	BOYNERIVER 150.00		150		52.283	52.283	52.283	52.283	52.283
5	BOYNERIVER 350.00		350		45.983	46.21	45.78	45.836	46.039
6	BOYNERIVER 420.00		420		46.05	46.3	45.877	46.548	46.103
7	BOYNERIVER 420.00		420		46.05	46.3	45.877	46.548	46.103
8	BOYNERIVER 817.70	B21.7	817.7	D/S Awoonga Dam	45.871	46.152	45.668	45.856	45.933
9	BOYNERIVER 1383.80	B21.15	1383.8		43.52	43.674	43.367	43.359	43.566
10	BOYNERIVER 1985.90	B20.6	1985.9		40.816	40.93	40.705	40.651	40.882
11	BOYNERIVER 2182.33		2182.33	Tucker Gully	40.476	40.579	40.357	40.319	40.54
12	BOYNERIVER 2182.33		2182.33		40.476	40.579	40.357	40.319	40.54
13	BOYNERIVER 2462.80	B20.1	2462.8		39.313	39.406	39.209	39.165	39.388
14	BOYNERIVER 3120.26		3120.26	Coomal Ck	38.89	38.979	38.796	38.733	38.973
15	BOYNERIVER 3120.26		3120.26		38.89	38.979	38.796	38.733	38.973
16	BOYNERIVER 3313.40	B18.95	3313.4	Pikes Crossing	38.708	38.794	38.615	38.554	38.789
17	BOYNERIVER 3976.40	B18.3	3976.4		37.061	37.12	36.994	36.943	37.15
18	BOYNERIVER 4740.10	B17.6	4740.1		34.476	34.507	34.398	34.359	34.525
19	BOYNERIVER 5457.30	B17.0	5457.3	Manns Weir 50m U/S	34.192	34.236	34.121	34.084	34.254
20	BOYNERIVER 5457.30	B17.0	5457.3	Little Oaky Ck	34.192	34.236	34.121	34.084	34.254
21	BOYNERIVER 5934.10	B16.7	5934.1		34.08	34.129	34.012	33.977	34.149
22	BOYNERIVER 6676.80	B16.0	6676.8	Yunka Ck	33.773	33.825	33.706	33.67	33.843
23	BOYNERIVER 6676.80	B16.0	6676.8		33.773	33.825	33.706	33.67	33.843
24	BOYNERIVER 7293.40	B15.5	7293.4		33.42	33.473	33.353	33.317	33.491
25	BOYNERIVER 8050.70	B14.8	8050.7	O'L Station Offtake	32.993	33.046	32.925	32.888	33.064
26	BOYNERIVER 8050.70	B14.8	8050.7	QR Railway Bridge	32.993	33.046	32.925	32.888	33.064
27	BOYNERIVER 8522.40	B14.35	8522.4		32.938	32.99	32.868	32.831	33.007
28	BOYNERIVER 8856.20	B14.0	8856.2		32.93	32.98	32.859	32.821	32.998
29	BOYNERIVER 9247.40	B13.6	9247.4		32.761	32.811	32.69	32.654	32.828
30	BOYNERIVER 9679.30	B13.2	9679.3		32.548	32.599	32.478	32.442	32.617
31	BOYNERIVER 10080.40	B12.8	10080.4		32.582	32.633	32.511	32.475	32.65
32	BOYNERIVER 10401.00		10401		32.398	32.448	32.326	32.29	32.467
33	BOYNERIVER 10402.80		10402.8		32.411	32.479	32.367	32.329	32.467
34	BOYNERIVER 10412.80	B12.5	10412.8		32.482	32.579	32.4	32.316	32.57
35	BOYNERIVER 10414.00		10414		32.396	32.438	32.327	32.293	32.463
36	BOYNERIVER 10646.10	B12.2	10646.1	Bruce H'way Bridge	32.37	32.422	32.301	32.265	32.439
37	BOYNERIVER 10832.90		10832.9	Station Ck	32.252	32.303	32.183	32.147	32.32
38	BOYNERIVER 10832.90		10832.9		32.252	32.303	32.183	32.147	32.32
39	BOYNERIVER 11254.50	B11.6	11254.5		30.199	30.245	30.137	30.105	30.259
40	BOYNERIVER 11848.60	B11.05	11848.6	Boyne Trib2 &	27.464	27.505	27.412	27.386	27.517
41	BOYNERIVER 11848.60	B11.05	11848.6	O'L Boyne Offtake	27.464	27.505	27.412	27.386	27.517
42	BOYNERIVER 12303.00		12303		26.456	26.494	26.406	26.382	26.505
43	BOYNERIVER 12303.00		12303	Boyne Trib1	26.456	26.494	26.406	26.382	26.505
44	BOYNERIVER 12455.40	B10.5	12455.4		26.018	26.056	25.971	25.947	26.065
45	BOYNERIVER 12785.40		12785.4	Machine Ck	25.141	25.177	25.095	25.072	25.186
46	BOYNERIVER 12785.40		12785.4		25.141	25.177	25.095	25.072	25.186
47	BOYNERIVER 12874.90	B10.2	12874.9		24.778	24.813	24.732	24.709	24.822
48	BOYNERIVER 13251.30	B9.8	13251.3		24.654	24.69	24.607	24.584	24.699
49	BOYNERIVER 13865.90	B9.1	13865.9		22.999	23.032	22.958	22.938	23.04
50	BOYNERIVER 14304.56		14304.56	Wurdong Ck	22.277	22.309	22.238	22.219	22.316
51	BOYNERIVER 14304.56		14304.56		22.277	22.309	22.238	22.219	22.316
52	BOYNERIVER 14472.20	B8.5	14472.2		22.047	22.078	22.009	21.99	22.085
53	BOYNERIVER 14964.20	B8.0	14964.2		21.603	21.634	21.564	21.545	21.641
54	BOYNERIVER 15341.20	B7.55	15341.2		20.473	20.502	20.437	20.419	20.508
55	BOYNERIVER 15741.50	B7.2	15741.5		20.044	20.074	20.007	19.988	20.079
56	BOYNERIVER 16062.90		16062.9	O'L Boyne D/S	19.772	19.802	19.735	19.717	19.808
57	BOYNERIVER 16062.90		16062.9		19.772	19.802	19.735	19.717	19.808
58	BOYNERIVER 16145.40	B6.8	16145.4		19.727	19.757	19.69	19.672	19.763
59	BOYNERIVER 16727.90	B6.2	16727.9		18.699	18.726	18.664	18.646	18.732
60	BOYNERIVER 17358.60	B5.55	17358.6		17.863	17.89	17.829	17.811	17.894
61	BOYNERIVER 17722.19		17722.19	South Trees	16.408	16.433	16.376	16.36	16.438
62	BOYNERIVER 17722.19		17722.19		16.408	16.433	16.376	16.36	16.438
63	BOYNERIVER 17874.50		17874.5		16.399	16.425	16.367	16.351	16.429
64	BOYNERIVER 18184.66		18184.66	Cattle Ck	16.395	16.421	16.363	16.347	16.425
65	BOYNERIVER 18184.66		18184.66		16.395	16.421	16.363	16.347	16.425

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 300m Time = 4hrs	Time = 3.5hrs	Time = 4.5hrs	Width = 250m	Width = 325m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
66	BOYNERIVER 18476.20	B4.5	18476.2		15.913	15.938	15.883	15.867	15.942
67	BOYNERIVER 18884.20	B4.05	18884.2		14.441	14.462	14.415	14.402	14.465
68	BOYNERIVER 19282.40	B3.65	19282.4		14.437	14.458	14.411	14.397	14.462
69	BOYNERIVER 19869.50	B3.15	19869.5		14.038	14.06	14.011	13.997	14.064
70	BOYNERIVER 20263.70	B2.75	20263.7		13.076	13.096	13.051	13.038	13.1
71	BOYNERIVER 20684.60	B2.45	20684.6		12.676	12.697	12.649	12.636	12.701
72	BOYNERIVER 20866.30	B2.25	20866.3		12.447	12.468	12.422	12.409	12.471
73	BOYNERIVER 21269.40	B1.85	21269.4	John Oxley Bridge	11.521	11.541	11.496	11.483	11.544
74	BOYNERIVER 21471.70	B1.65	21471.7		10.084	10.103	10.06	10.047	10.107
75	BOYNERIVER 21861.20	B1.2	21861.2		8.379	8.392	8.362	8.354	8.394
76	BOYNERIVER 22251.30	B0.9	22251.3		6.181	6.19	6.17	6.165	6.191
77	BOYNERIVER 22636.00	B0.5	22636		2.42	2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1			38.903	38.992	38.82	38.742	39.003
79	COOMALCK 398.20	C2			38.903	38.989	38.816	38.764	38.989
80	COOMALCK 794.20	C3			38.9	38.988	38.81	38.76	38.974
81	COOMALCK 1209.50	C4			38.895	38.987	38.805	38.758	38.966
82	COOMALCK 1813.30	C5			38.891	38.984	38.795	38.745	38.967
83	COOMALCK 2352.80	C6			38.892	38.983	38.795	38.741	38.969
84	COOMALCK 3112.20	C7			38.892	38.984	38.795	38.748	38.971
85	COOMALCK 3751.30	C8			38.891	38.983	38.796	38.744	38.974
86	COOMALCK 4222.50	C9			38.89	38.98	38.796	38.736	38.973
87	COOMALCK 4305.00				38.89	38.979	38.796	38.733	38.973
88	YUNKACK 0.00	Y1			36.578	36.578	36.578	36.578	36.578
89	YUNKACK 574.20	Y2			33.772	33.825	33.707	33.67	33.844
90	YUNKACK 948.90	Y3			33.778	33.825	33.707	33.672	33.844
91	YUNKACK 1253.10	Y4			33.778	33.825	33.707	33.671	33.844
92	YUNKACK 1835.50	Y5			33.775	33.825	33.707	33.67	33.844
93	YUNKACK 2434.60	Y6			33.773	33.825	33.706	33.671	33.844
94	YUNKACK 2763.00	Y7			33.773	33.825	33.706	33.67	33.843
95	TUCKERGULLY 0.00				40.514	40.641	40.406	40.408	40.562
96	TUCKERGULLY 1066.80	TU-1			40.535	40.621	40.386	40.329	40.565
97	TUCKERGULLY 1965.80	TU-2			40.509	40.629	40.38	40.342	40.551
98	TUCKERGULLY 2491.10	TU-3			40.503	40.612	40.379	40.331	40.535
99	TUCKERGULLY 3217.50	TU-4			40.497	40.599	40.366	40.318	40.543
100	TUCKERGULLY 3966.50	TU-5			40.49	40.594	40.363	40.314	40.545
101	TUCKERGULLY 4522.10	TU-6			40.477	40.59	40.364	40.337	40.559
102	TUCKERGULLY 5384.20	TU-7		Awoonga Dam Rd Xing	40.482	40.585	40.36	40.332	40.545
103	TUCKERGULLY 5765.40			Tucker Trib	40.482	40.582	40.361	40.324	40.537
104	TUCKERGULLY 5765.40				40.482	40.582	40.361	40.324	40.537
105	TUCKERGULLY 6350.10	TU-8			40.478	40.58	40.359	40.324	40.538
106	TUCKERGULLY 6669.00	TU-9			40.476	40.579	40.357	40.319	40.54
107	TUCKERTRIB 0.00				40.499	40.601	40.374	40.36	40.595
108	TUCKERTRIB 206.20	T1-1			40.5	40.601	40.372	40.346	40.594
109	TUCKERTRIB 730.40	T1-2			40.502	40.601	40.369	40.38	40.584
110	TUCKERTRIB 1416.70	T1-3			40.495	40.604	40.365	40.329	40.58
111	TUCKERTRIB 1944.80	T1-4			40.483	40.608	40.367	40.353	40.551
112	TUCKERTRIB 2331.50	T1-5			40.479	40.604	40.364	40.344	40.543
113	TUCKERTRIB 2914.70	T1-6		Awoonga Dam Rd Xing	40.488	40.592	40.361	40.33	40.55
114	TUCKERTRIB 3377.00				40.482	40.582	40.361	40.324	40.537
115	STATIONCK 0.00	S1			32.292	32.343	32.223	32.187	32.36
116	STATIONCK 684.50	S2			32.291	32.342	32.223	32.187	32.36
117	STATIONCK 1599.70	S3			32.289	32.342	32.222	32.186	32.36
118	STATIONCK 2431.30	S4			32.289	32.341	32.222	32.186	32.359
119	STATIONCK 3013.70	S5			32.291	32.341	32.221	32.185	32.358
120	STATIONCK 3734.90	S6		Bruce H'way	32.29	32.34	32.22	32.184	32.358
121	STATIONCK 4481.70	S7			32.288	32.339	32.219	32.183	32.357
122	STATIONCK 5140.80	S8			32.286	32.338	32.218	32.183	32.356
123	STATIONCK 5918.90	S9			32.285	32.337	32.217	32.182	32.355
124	STATIONCK 6575.50	S10			32.284	32.336	32.216	32.18	32.353
125	STATIONCK 6954.40			O'L Station D/S	32.283	32.335	32.215	32.179	32.352
126	STATIONCK 6954.40				32.283	32.335	32.215	32.179	32.352
127	STATIONCK 7691.00	S11			32.252	32.303	32.183	32.147	32.32
128	MACHINECK 0.00	M1			33.615	33.615	33.615	33.615	33.615
129	MACHINECK 726.30	M2			28.714	28.714	28.714	28.714	28.714
130	MACHINECK 1186.80	M3			26.615	26.615	26.615	26.615	26.615
131	MACHINECK 1699.10	M4			25.144	25.18	25.098	25.075	25.189
132	MACHINECK 2214.80	M5			25.144	25.179	25.098	25.075	25.189
133	MACHINECK 2730.60	M6			25.143	25.179	25.097	25.075	25.189

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 300m Time = 4hrs	Time = 3.5hrs	Time = 4.5hrs	Width = 250m	Width = 325m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
134	MACHINECK 3140.90	M7			25.143	25.179	25.097	25.075	25.189
135	MACHINECK 3611.90	M8			25.143	25.179	25.097	25.074	25.188
136	MACHINECK 4246.80	M9		Road/Rail X-ing	25.142	25.179	25.097	25.074	25.188
137	MACHINECK 5099.90	M10			25.142	25.178	25.096	25.074	25.188
138	MACHINECK 5868.40	M11		Bruce H'way 100m U/S	25.141	25.178	25.096	25.073	25.187
139	MACHINECK 6711.00	M12			25.141	25.177	25.095	25.072	25.186
140	O'NSTATION 0.00				32.993	33.046	32.925	32.888	33.064
141	O'NSTATION 304.10	O2-1			32.957	33.01	32.888	32.851	33.027
142	O'NSTATION 1252.20	O2-2			32.83	32.88	32.759	32.722	32.897
143	O'NSTATION 1924.60	O2-3			32.584	32.636	32.515	32.479	32.653
144	O'NSTATION 2385.50				32.36	32.412	32.292	32.256	32.429
145	O'NSTATION 2588.00	O2-4		Bruce H'way	32.283	32.335	32.215	32.179	32.352
146	WURDONGCK 0.00	W1			27.313	27.313	27.313	27.313	27.313
147	WURDONGCK 616.40	W2			22.279	22.31	22.24	22.221	22.317
148	WURDONGCK 1311.60	W3			22.279	22.31	22.24	22.22	22.317
149	WURDONGCK 1752.90	W4			22.278	22.31	22.239	22.22	22.317
150	WURDONGCK 2482.50	W5		GLD/Benaraby Rd 100m D/S	22.278	22.31	22.239	22.22	22.317
151	WURDONGCK 3446.50	W6			22.278	22.309	22.239	22.22	22.317
152	WURDONGCK 4664.00	W7			22.277	22.309	22.238	22.219	22.316
153	BOYNETRIB1 0.00	T2-1			26.456	26.495	26.407	26.383	26.506
154	BOYNETRIB1 573.10	T2-2			26.456	26.495	26.407	26.382	26.506
155	BOYNETRIB1 1368.30	T2-3			26.456	26.495	26.407	26.382	26.505
156	BOYNETRIB1 1848.20	T2-4		Bruce H'way 75m D/S	26.456	26.495	26.407	26.382	26.505
157	BOYNETRIB1 2194.80	T2-5			26.456	26.495	26.406	26.382	26.505
158	BOYNETRIB1 2663.00	T2-6			26.456	26.494	26.406	26.382	26.505
159	BOYNETRIB2 0.00	T3-1			27.467	27.506	27.413	27.386	27.517
160	BOYNETRIB2 381.20	T3-2			27.466	27.505	27.413	27.386	27.517
161	BOYNETRIB2 713.60	T3-3			27.466	27.505	27.413	27.386	27.517
162	BOYNETRIB2 1247.10	T3-4			27.465	27.505	27.413	27.386	27.517
163	BOYNETRIB2 1804.00	T3-5			27.464	27.505	27.412	27.386	27.517
164	O'LANDBOYNE 0.00				27.464	27.505	27.412	27.386	27.517
165	O'LANDBOYNE 462.10	O3-1			22.503	22.535	22.462	22.442	22.544
166	O'LANDBOYNE 843.90	O3-2			20.756	20.784	20.721	20.704	20.79
167	O'LANDBOYNE 1492.50	O3-3			19.865	19.895	19.829	19.81	19.901
168	O'LANDBOYNE 1924.31			O'Land01 U/S	19.772	19.801	19.735	19.716	19.807
169	O'LANDBOYNE 1924.31				19.772	19.801	19.735	19.716	19.807
170	O'LANDBOYNE 2032.00	O3-4			19.772	19.802	19.735	19.717	19.808
171	O'LAND01 0.00				19.772	19.801	19.735	19.716	19.807
172	O'LAND01 415.30	O4-01			19.043	19.072	19.008	18.99	19.077
173	O'LAND01 1018.80	O4-02			18.502	18.531	18.467	18.449	18.536
174	O'LAND01 1360.20	O4-03			18.295	18.323	18.26	18.242	18.328
175	O'LAND01 1988.30	O4-04			17.994	18.022	17.959	17.942	18.027
176	O'LAND01 2586.50	O4-05			17.775	17.803	17.74	17.723	17.808
177	O'LAND01 3091.00	O4-06			17.183	17.209	17.15	17.134	17.214
178	CATTLECK 0.00	CC1		Tannum Sands Rd 50m D/S	17.184	17.21	17.151	17.134	17.214
179	CATTLECK 743.60	CC2			17.184	17.21	17.151	17.134	17.214
180	CATTLECK 1293.10	CC3			17.184	17.21	17.151	17.134	17.214
181	CATTLECK 1994.43			O'Land 01 D/S	17.183	17.209	17.15	17.134	17.214
182	CATTLECK 1994.43				17.183	17.209	17.15	17.134	17.214
183	CATTLECK 2124.80	CC4			16.835	16.861	16.803	16.787	16.866
184	CATTLECK 2335.00				16.395	16.421	16.363	16.347	16.425
185	STHTREES 0.00	ST1		Sth Trees/BoyneR Bifurcate	16.408	16.433	16.376	16.36	16.438
186	STHTREES 851.80	ST2			15.634	15.659	15.602	15.585	15.663
187	STHTREES 1579.60	ST3		Boyne Is Rd Bridge	15.383	15.408	15.351	15.335	15.413
188	STHTREES 2361.30	ST4			15.166	15.192	15.135	15.118	15.196
189	STHTREES 2829.50	ST5			15.115	15.141	15.083	15.066	15.145
190	STHTREES 3773.50	ST6			14.935	14.96	14.903	14.887	14.964
191	STHTREES 4171.60	ST7			14.778	14.803	14.747	14.731	14.807
192	STHTREES 4595.40	ST8			14.491	14.515	14.46	14.445	14.519
193	STHTREES 5122.39			Ten Mile Ck	14.161	14.185	14.13	14.115	14.188
194	STHTREES 5122.39				14.161	14.185	14.13	14.115	14.188
195	STHTREES 5493.40	ST9			13.791	13.814	13.762	13.747	13.818
196	STHTREES 6390.90	ST10			11.899	11.918	11.874	11.861	11.921
197	STHTREES 7658.80	ST11			10.02	10.038	9.999	9.987	10.04
198	STHTREES 8251.05			Eleven Mile Ck	9.775	9.791	9.754	9.743	9.793
199	STHTREES 8251.05				9.775	9.791	9.754	9.743	9.793
200	STHTREES 9287.10	ST12			9.163	9.178	9.144	9.134	9.18
201	STHTREES 11258.10	ST13			7.843	7.856	7.827	7.819	7.857

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL40

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 300m Time = 4hrs	Time = 3.5hrs	Time = 4.5hrs	Width = 250m	Width = 325m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
202	STHTREES 12688.10	ST14			6.731	6.741	6.718	6.711	6.742
203	STHTREES 14444.90	ST15			5.575	5.581	5.567	5.563	5.581
204	STHTREES 17478.00	ST16			2.42	2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1		GLD/Benaraby Boyne X-ing	14.161	14.185	14.131	14.115	14.189
206	TENMILECK 510.20	T4-2			14.161	14.185	14.131	14.115	14.189
207	TENMILECK 1040.50	T4-3			14.161	14.185	14.131	14.115	14.189
208	TENMILECK 1753.90	T4-4			14.161	14.185	14.131	14.115	14.188
209	TENMILECK 2298.00	T4-5			14.161	14.185	14.13	14.115	14.188
210	ELEVENMILECK 0.00	T5-1			12.456	12.456	12.456	12.456	12.456
211	ELEVENMILECK 883.90	T5-2		GLD/Benaraby Rd	9.776	9.792	9.755	9.744	9.794
212	ELEVENMILECK 1811.40	T5-3			9.775	9.792	9.754	9.743	9.794
213	ELEVENMILECK 3118.20	T5-4			9.775	9.792	9.754	9.743	9.793
214	ELEVENMILECK 3887.00				9.775	9.791	9.754	9.743	9.793
215	LITTLEOAKYCK 0.00	O1-1A			34.189	34.236	34.121	34.084	34.255
216	LITTLEOAKYCK 670.00	O1-2A			34.186	34.236	34.121	34.085	34.254
217	LITTLEOAKYCK 1834.00	O1-3A			34.193	34.236	34.121	34.084	34.254
218	LITTLEOAKYCK 1958.00				34.192	34.236	34.121	34.084	34.254
219	SPILLWAY 0.00				52.283	52.283	52.283	52.283	52.283
220	SPILLWAY 300.00				46.05	46.3	45.877	46.548	46.103

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 325m Time = 4.25hrs	Time = 3.75hrs	Time = 4.75hrs	Width = 275m	Width = 350m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00		0		53.769	53.769	53.769	53.769	53.769
2	BOYNERIVER 100.00		100		53.762	53.762	53.762	53.762	53.762
3	BOYNERIVER 100.00		100		53.762	53.762	53.762	53.762	53.762
4	BOYNERIVER 150.00		150		53.762	53.762	53.762	53.762	53.762
5	BOYNERIVER 350.00		350		47.584	47.762	47.407	47.491	47.631
6	BOYNERIVER 420.00		420		47.622	47.801	47.438	47.523	47.67
7	BOYNERIVER 420.00		420		47.622	47.801	47.438	47.523	47.67
8	BOYNERIVER 817.70	B21.7	817.7	D/S Awoonga Dam	47.373	47.558	47.178	47.269	47.42
9	BOYNERIVER 1383.80	B21.15	1383.8		44.839	44.988	44.705	44.762	44.92
10	BOYNERIVER 1985.90	B20.6	1985.9		42.02	42.116	41.946	41.953	42.089
11	BOYNERIVER 2182.33		2182.33	Tucker Gully	41.678	41.772	41.607	41.615	41.751
12	BOYNERIVER 2182.33		2182.33		41.678	41.772	41.607	41.615	41.751
13	BOYNERIVER 2462.80	B20.1	2462.8		40.486	40.567	40.427	40.423	40.552
14	BOYNERIVER 3120.26		3120.26	Coomal Ck	40.114	40.177	40.054	40.036	40.172
15	BOYNERIVER 3120.26		3120.26		40.114	40.177	40.054	40.036	40.172
16	BOYNERIVER 3313.40	B18.95	3313.4	Pikes Crossing	39.936	39.993	39.873	39.853	39.99
17	BOYNERIVER 3976.40	B18.3	3976.4		38.262	38.309	38.209	38.155	38.285
18	BOYNERIVER 4740.10	B17.6	4740.1		35.623	35.675	35.568	35.521	35.631
19	BOYNERIVER 5457.30	B17.0	5457.3	Manns Weir 50m U/S	35.387	35.44	35.329	35.282	35.395
20	BOYNERIVER 5457.30	B17.0	5457.3	Little Oaky Ck	35.387	35.44	35.329	35.282	35.395
21	BOYNERIVER 5934.10	B16.7	5934.1		35.298	35.352	35.239	35.191	35.306
22	BOYNERIVER 6676.80	B16.0	6676.8	Yunka Ck	35	35.055	34.941	34.894	35.008
23	BOYNERIVER 6676.80	B16.0	6676.8		35	35.055	34.941	34.894	35.008
24	BOYNERIVER 7293.40	B15.5	7293.4		34.66	34.715	34.6	34.553	34.668
25	BOYNERIVER 8050.70	B14.8	8050.7	O'L Station Offtake	34.242	34.298	34.182	34.135	34.25
26	BOYNERIVER 8050.70	B14.8	8050.7	QR Railway Bridge	34.242	34.298	34.182	34.135	34.25
27	BOYNERIVER 8522.40	B14.35	8522.4		34.186	34.242	34.126	34.079	34.194
28	BOYNERIVER 8856.20	B14.0	8856.2		34.177	34.234	34.117	34.07	34.186
29	BOYNERIVER 9247.40	B13.6	9247.4		34.002	34.058	33.942	33.895	34.01
30	BOYNERIVER 9679.30	B13.2	9679.3		33.787	33.843	33.728	33.682	33.796
31	BOYNERIVER 10080.40	B12.8	10080.4		33.829	33.885	33.769	33.722	33.837
32	BOYNERIVER 10401.00		10401		33.635	33.691	33.575	33.529	33.643
33	BOYNERIVER 10402.80		10402.8		33.648	33.706	33.584	33.545	33.657
34	BOYNERIVER 10412.80	B12.5	10412.8		33.732	33.791	33.675	33.627	33.728
35	BOYNERIVER 10414.00		10414		33.635	33.691	33.572	33.528	33.643
36	BOYNERIVER 10646.10	B12.2	10646.1	Bruce H'way Bridge	33.611	33.667	33.551	33.505	33.619
37	BOYNERIVER 10832.90		10832.9	Station Ck	33.488	33.544	33.428	33.382	33.496
38	BOYNERIVER 10832.90		10832.9		33.488	33.544	33.428	33.382	33.496
39	BOYNERIVER 11254.50	B11.6	11254.5		31.3	31.35	31.247	31.208	31.307
40	BOYNERIVER 11848.60	B11.05	11848.6	Boyne Trib2 &	28.414	28.457	28.368	28.335	28.421
41	BOYNERIVER 11848.60	B11.05	11848.6	O'L Boyne Offtake	28.414	28.457	28.368	28.335	28.421
42	BOYNERIVER 12303.00		12303		27.349	27.389	27.305	27.275	27.355
43	BOYNERIVER 12303.00		12303	Boyne Trib1	27.349	27.389	27.305	27.275	27.355
44	BOYNERIVER 12455.40	B10.5	12455.4		26.884	26.923	26.842	26.812	26.89
45	BOYNERIVER 12785.40		12785.4	Machine Ck	25.975	26.013	25.935	25.907	25.981
46	BOYNERIVER 12785.40		12785.4		25.975	26.013	25.935	25.907	25.981
47	BOYNERIVER 12874.90	B10.2	12874.9		25.6	25.637	25.56	25.532	25.605
48	BOYNERIVER 13251.30	B9.8	13251.3		25.493	25.531	25.452	25.423	25.498
49	BOYNERIVER 13865.90	B9.1	13865.9		23.749	23.784	23.713	23.688	23.754
50	BOYNERIVER 14304.56		14304.56	Wurdong Ck	22.992	23.024	22.957	22.933	22.996
51	BOYNERIVER 14304.56		14304.56		22.992	23.024	22.957	22.933	22.996
52	BOYNERIVER 14472.20	B8.5	14472.2		22.749	22.781	22.715	22.691	22.753
53	BOYNERIVER 14964.20	B8.0	14964.2		22.313	22.346	22.278	22.255	22.318
54	BOYNERIVER 15341.20	B7.55	15341.2		21.135	21.166	21.103	21.081	21.14
55	BOYNERIVER 15741.50	B7.2	15741.5		20.728	20.76	20.695	20.673	20.733
56	BOYNERIVER 16062.90		16062.9	O'L Boyne D/S	20.454	20.485	20.42	20.398	20.458
57	BOYNERIVER 16062.90		16062.9		20.454	20.485	20.42	20.398	20.458
58	BOYNERIVER 16145.40	B6.8	16145.4		20.409	20.44	20.375	20.354	20.413
59	BOYNERIVER 16727.90	B6.2	16727.9		19.341	19.371	19.31	19.289	19.346
60	BOYNERIVER 17358.60	B5.55	17358.6		18.486	18.514	18.455	18.435	18.49
61	BOYNERIVER 17722.19		17722.19	South Trees	16.989	17.016	16.961	16.943	16.993
62	BOYNERIVER 17722.19		17722.19		16.989	17.016	16.961	16.943	16.993
63	BOYNERIVER 17874.50		17874.5		16.984	17.011	16.956	16.937	16.988
64	BOYNERIVER 18184.66		18184.66	Cattle Ck	16.982	17.009	16.953	16.935	16.986
65	BOYNERIVER 18184.66		18184.66		16.982	17.009	16.953	16.935	16.986



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 325m Time = 4.25hrs	Time = 3.75hrs	Time = 4.75hrs	Width = 275m	Width = 350m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
66	BOYNERIVER 18476.20	B4.5	18476.2		16.475	16.501	16.448	16.43	16.479
67	BOYNERIVER 18884.20	B4.05	18884.2		14.914	14.936	14.891	14.876	14.917
68	BOYNERIVER 19282.40	B3.65	19282.4		14.926	14.949	14.902	14.887	14.93
69	BOYNERIVER 19869.50	B3.15	19869.5		14.545	14.569	14.52	14.505	14.549
70	BOYNERIVER 20263.70	B2.75	20263.7		13.542	13.564	13.519	13.505	13.546
71	BOYNERIVER 20684.60	B2.45	20684.6		13.163	13.185	13.139	13.124	13.166
72	BOYNERIVER 20866.30	B2.25	20866.3		12.919	12.94	12.895	12.88	12.922
73	BOYNERIVER 21269.40	B1.85	21269.4	John Oxley Bridge	11.979	12	11.956	11.942	11.982
74	BOYNERIVER 21471.70	B1.65	21471.7		10.532	10.553	10.51	10.495	10.535
75	BOYNERIVER 21861.20	B1.2	21861.2		8.681	8.695	8.666	8.656	8.683
76	BOYNERIVER 22251.30	B0.9	22251.3		6.379	6.388	6.369	6.363	6.38
77	BOYNERIVER 22636.00	B0.5	22636		2.42	2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1			38.903	40.196	40.079	40.048	40.196
79	COOMALCK 398.20	C2			38.903	40.2	40.065	40.047	40.191
80	COOMALCK 794.20	C3			38.9	40.203	40.06	40.047	40.189
81	COOMALCK 1209.50	C4			38.895	40.197	40.06	40.046	40.186
82	COOMALCK 1813.30	C5			38.891	40.183	40.055	40.043	40.178
83	COOMALCK 2352.80	C6			38.892	40.18	40.053	40.042	40.176
84	COOMALCK 3112.20	C7			38.892	40.18	40.051	40.04	40.171
85	COOMALCK 3751.30	C8			38.891	40.178	40.053	40.038	40.172
86	COOMALCK 4222.50	C9			38.89	40.177	40.054	40.037	40.172
87	COOMALCK 4305.00				38.89	40.177	40.054	40.036	40.172
88	YUNKACK 0.00	Y1			36.578	36.579	36.579	36.579	36.579
89	YUNKACK 574.20	Y2			33.772	35.056	34.942	34.894	35.009
90	YUNKACK 948.90	Y3			33.778	35.056	34.941	34.894	35.009
91	YUNKACK 1253.10	Y4			33.778	35.055	34.941	34.894	35.008
92	YUNKACK 1835.50	Y5			33.775	35.055	34.941	34.894	35.008
93	YUNKACK 2434.60	Y6			33.773	35.055	34.941	34.894	35.008
94	YUNKACK 2763.00	Y7			33.773	35.055	34.941	34.894	35.008
95	TUCKERGULLY 0.00				40.514	41.809	41.649	41.646	41.819
96	TUCKERGULLY 1066.80	TU-1			40.535	41.809	41.625	41.631	41.796
97	TUCKERGULLY 1965.80	TU-2			40.509	41.799	41.624	41.622	41.806
98	TUCKERGULLY 2491.10	TU-3			40.503	41.798	41.612	41.617	41.776
99	TUCKERGULLY 3217.50	TU-4			40.497	41.799	41.618	41.619	41.782
100	TUCKERGULLY 3966.50	TU-5			40.49	41.785	41.616	41.619	41.769
101	TUCKERGULLY 4522.10	TU-6			40.477	41.778	41.615	41.621	41.755
102	TUCKERGULLY 5384.20	TU-7		Awoonga Dam Rd Xing	40.482	41.782	41.616	41.62	41.755
103	TUCKERGULLY 5765.40			Tucker Trib	40.482	41.777	41.61	41.62	41.755
104	TUCKERGULLY 5765.40				40.482	41.777	41.61	41.62	41.755
105	TUCKERGULLY 6350.10	TU-8			40.478	41.774	41.608	41.616	41.752
106	TUCKERGULLY 6669.00	TU-9			40.476	41.772	41.607	41.615	41.751
107	TUCKERTRIB 0.00				40.499	41.793	41.646	41.641	41.793
108	TUCKERTRIB 206.20	T1-1			40.5	41.794	41.643	41.641	41.793
109	TUCKERTRIB 730.40	T1-2			40.502	41.796	41.623	41.638	41.796
110	TUCKERTRIB 1416.70	T1-3			40.495	41.794	41.617	41.634	41.785
111	TUCKERTRIB 1944.80	T1-4			40.483	41.792	41.615	41.63	41.772
112	TUCKERTRIB 2331.50	T1-5			40.479	41.784	41.611	41.63	41.771
113	TUCKERTRIB 2914.70	T1-6		Awoonga Dam Rd Xing	40.488	41.776	41.611	41.626	41.764
114	TUCKERTRIB 3377.00				40.482	41.777	41.61	41.62	41.755
115	STATIONCK 0.00	S1			32.292	33.583	33.468	33.422	33.536
116	STATIONCK 684.50	S2			32.291	33.583	33.468	33.422	33.536
117	STATIONCK 1599.70	S3			32.289	33.583	33.468	33.421	33.535
118	STATIONCK 2431.30	S4			32.289	33.582	33.467	33.421	33.535
119	STATIONCK 3013.70	S5			32.291	33.582	33.466	33.42	33.534
120	STATIONCK 3734.90	S6		Bruce H'way	32.29	33.581	33.466	33.419	33.533
121	STATIONCK 4481.70	S7			32.288	33.58	33.465	33.418	33.532
122	STATIONCK 5140.80	S8			32.286	33.579	33.464	33.417	33.531
123	STATIONCK 5918.90	S9			32.285	33.578	33.463	33.417	33.53
124	STATIONCK 6575.50	S10			32.284	33.577	33.461	33.415	33.529
125	STATIONCK 6954.40			O'L Station D/S	32.283	33.576	33.46	33.414	33.528
126	STATIONCK 6954.40				32.283	33.576	33.46	33.414	33.528
127	STATIONCK 7691.00	S11			32.252	33.544	33.428	33.382	33.496
128	MACHINECK 0.00	M1			33.615	33.615	33.615	33.615	33.615
129	MACHINECK 726.30	M2			28.714	28.714	28.714	28.714	28.714
130	MACHINECK 1186.80	M3			26.615	26.615	26.615	26.615	26.615
131	MACHINECK 1699.10	M4			25.144	26.016	25.938	25.91	25.984
132	MACHINECK 2214.80	M5			25.144	26.016	25.938	25.909	25.984
133	MACHINECK 2730.60	M6			25.143	26.016	25.937	25.909	25.983

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 325m Time = 4.25hrs	Time = 3.75hrs	Time = 4.75hrs	Width = 275m	Width = 350m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
134	MACHINECK 3140.90	M7			25.143	26.016	25.937	25.909	25.983
135	MACHINECK 3611.90	M8			25.143	26.015	25.937	25.909	25.983
136	MACHINECK 4246.80	M9		Road/Rail X-ing	25.142	26.015	25.937	25.908	25.983
137	MACHINECK 5099.90	M10			25.142	26.015	25.936	25.908	25.982
138	MACHINECK 5868.40	M11		Bruce H'way 100m U/S	25.141	26.014	25.936	25.907	25.982
139	MACHINECK 6711.00	M12			25.141	26.013	25.935	25.907	25.981
140	O'LSTATION 0.00				32.993	34.298	34.182	34.135	34.25
141	O'LSTATION 304.10	O2-1			32.957	34.262	34.146	34.099	34.214
142	O'LSTATION 1252.20	O2-2			32.83	34.133	34.017	33.97	34.085
143	O'LSTATION 1924.60	O2-3			32.584	33.88	33.765	33.719	33.833
144	O'LSTATION 2385.50				32.36	33.652	33.537	33.491	33.605
145	O'LSTATION 2588.00	O2-4		Bruce H'way	32.283	33.576	33.46	33.414	33.528
146	WURDONGCK 0.00	W1			27.313	27.313	27.313	27.313	27.313
147	WURDONGCK 616.40	W2			22.279	23.026	22.958	22.935	22.998
148	WURDONGCK 1311.60	W3			22.279	23.026	22.958	22.935	22.998
149	WURDONGCK 1752.90	W4			22.278	23.025	22.958	22.935	22.998
150	WURDONGCK 2482.50	W5		GLD/Benaraby Rd 100m D/S	22.278	23.025	22.958	22.934	22.997
151	WURDONGCK 3446.50	W6			22.278	23.025	22.958	22.934	22.997
152	WURDONGCK 4664.00	W7			22.277	23.024	22.957	22.933	22.996
153	BOYNETRIB1 0.00	T2-1			26.456	27.39	27.306	27.276	27.355
154	BOYNETRIB1 573.10	T2-2			26.456	27.39	27.306	27.275	27.355
155	BOYNETRIB1 1368.30	T2-3			26.456	27.39	27.306	27.276	27.355
156	BOYNETRIB1 1848.20	T2-4		Bruce H'way 75m D/S	26.456	27.39	27.306	27.275	27.355
157	BOYNETRIB1 2194.80	T2-5			26.456	27.39	27.306	27.275	27.355
158	BOYNETRIB1 2663.00	T2-6			26.456	27.389	27.305	27.275	27.355
159	BOYNETRIB2 0.00	T3-1			27.467	28.458	28.369	28.335	28.421
160	BOYNETRIB2 381.20	T3-2			27.466	28.458	28.369	28.335	28.421
161	BOYNETRIB2 713.60	T3-3			27.466	28.458	28.369	28.335	28.421
162	BOYNETRIB2 1247.10	T3-4			27.465	28.458	28.369	28.335	28.421
163	BOYNETRIB2 1804.00	T3-5			27.464	28.457	28.368	28.335	28.421
164	O'LANDBOYNE 0.00				27.464	28.457	28.368	28.335	28.421
165	O'LANDBOYNE 462.10	O3-1			22.503	23.287	23.216	23.191	23.258
166	O'LANDBOYNE 843.90	O3-2			20.756	21.425	21.365	21.344	21.4
167	O'LANDBOYNE 1492.50	O3-3			19.865	20.574	20.509	20.488	20.547
168	O'LANDBOYNE 1924.31			O'Land01 U/S	19.772	20.484	20.419	20.398	20.457
169	O'LANDBOYNE 1924.31				19.772	20.484	20.419	20.398	20.457
170	O'LANDBOYNE 2032.00	O3-4			19.772	20.485	20.42	20.398	20.458
171	O'LAND01 0.00				19.772	20.484	20.419	20.398	20.457
172	O'LAND01 415.30	O4-01			19.043	19.726	19.664	19.643	19.7
173	O'LAND01 1018.80	O4-02			18.502	19.179	19.118	19.097	19.153
174	O'LAND01 1360.20	O4-03			18.295	18.972	18.91	18.89	18.946
175	O'LAND01 1988.30	O4-04			17.994	18.665	18.604	18.584	18.64
176	O'LAND01 2586.50	O4-05			17.775	18.436	18.376	18.356	18.412
177	O'LAND01 3091.00	O4-06			17.183	17.815	17.757	17.738	17.791
178	CATTLECK 0.00	CC1		Tannum Sands Rd 50m D/S	17.184	17.815	17.758	17.739	17.791
179	CATTLECK 743.60	CC2			17.184	17.815	17.758	17.739	17.791
180	CATTLECK 1293.10	CC3			17.184	17.815	17.758	17.738	17.791
181	CATTLECK 1994.43			O'Land 01 D/S	17.183	17.815	17.757	17.738	17.791
182	CATTLECK 1994.43				17.183	17.815	17.757	17.738	17.791
183	CATTLECK 2124.80	CC4			16.835	17.453	17.397	17.378	17.43
184	CATTLECK 2335.00				16.395	17.009	16.953	16.935	16.986
185	STHTREES 0.00	ST1		Sth Trees/BoyneR Bifurcate	16.408	17.016	16.961	16.943	16.993
186	STHTREES 851.80	ST2			15.634	16.249	16.193	16.175	16.226
187	STHTREES 1579.60	ST3		Boyne Is Rd Bridge	15.383	15.998	15.942	15.924	15.975
188	STHTREES 2361.30	ST4			15.166	15.78	15.724	15.706	15.757
189	STHTREES 2829.50	ST5			15.115	15.731	15.675	15.657	15.707
190	STHTREES 3773.50	ST6			14.935	15.545	15.489	15.472	15.522
191	STHTREES 4171.60	ST7			14.778	15.378	15.324	15.306	15.356
192	STHTREES 4595.40	ST8			14.491	15.074	15.021	15.004	15.052
193	STHTREES 5122.39			Ten Mile Ck	14.161	14.742	14.689	14.672	14.72
194	STHTREES 5122.39				14.161	14.742	14.689	14.672	14.72
195	STHTREES 5493.40	ST9			13.791	14.349	14.298	14.282	14.327
196	STHTREES 6390.90	ST10			11.899	12.375	12.332	12.318	12.357
197	STHTREES 7658.80	ST11			10.02	10.442	10.403	10.391	10.425
198	STHTREES 8251.05			Eleven Mile Ck	9.775	10.182	10.145	10.134	10.167
199	STHTREES 8251.05				9.775	10.182	10.145	10.134	10.167
200	STHTREES 9287.10	ST12			9.163	9.537	9.503	9.493	9.523
201	STHTREES 11258.10	ST13			7.843	8.152	8.125	8.116	8.14

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL45

#### PMF Failure - Max Water Levels - 48hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 325m Time = 4.25hrs	Time = 3.75hrs	Time = 4.75hrs	Width = 275m	Width = 350m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
202	STHTREES 12688.10	ST14			6.731	6.978	6.957	6.95	6.97
203	STHTREES 14444.90	ST15			5.575	5.712	5.701	5.697	5.708
204	STHTREES 17478.00	ST16			2.42	2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1		GLD/Benaraby Boyne X-ing	14.161	14.742	14.689	14.672	14.72
206	TENMILECK 510.20	T4-2			14.161	14.742	14.689	14.672	14.72
207	TENMILECK 1040.50	T4-3			14.161	14.742	14.689	14.672	14.72
208	TENMILECK 1753.90	T4-4			14.161	14.742	14.689	14.672	14.72
209	TENMILECK 2298.00	T4-5			14.161	14.742	14.689	14.672	14.72
210	ELEVENMILECK 0.00	T5-1			12.456	12.456	12.456	12.456	12.456
211	ELEVENMILECK 883.90	T5-2		GLD/Benaraby Rd	9.776	10.183	10.146	10.134	10.168
212	ELEVENMILECK 1811.40	T5-3			9.775	10.183	10.146	10.134	10.168
213	ELEVENMILECK 3118.20	T5-4			9.775	10.183	10.145	10.134	10.167
214	ELEVENMILECK 3887.00				9.775	10.182	10.145	10.134	10.167
215	LITTLEOAKYCK 0.00	O1-1A			34.189	35.441	35.329	35.282	35.395
216	LITTLEOAKYCK 670.00	O1-2A			34.186	35.441	35.329	35.282	35.395
217	LITTLEOAKYCK 1834.00	O1-3A			34.193	35.44	35.329	35.282	35.395
218	LITTLEOAKYCK 1958.00				34.192	35.44	35.329	35.282	35.395
219	SPILLWAY 0.00				52.283	53.762	53.762	53.762	53.762
220	SPILLWAY 300.00				46.05	47.801	47.438	47.523	47.67

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - 24hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 370m Time = 4.5hrs	Time = 4.0hrs	Time = 4.75hrs	Width = 350m	Width = 400m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
1	BOYNERIVER 0.00		0		58.233	58.233	58.233	58.233	58.233
2	BOYNERIVER 100.00		100		58.222	58.222	58.222	58.222	58.222
3	BOYNERIVER 100.00		100		58.222	58.222	58.222	58.222	58.222
4	BOYNERIVER 150.00		150		58.221	58.221	58.221	58.221	58.221
5	BOYNERIVER 350.00		350		51.018	51.306	50.924	51.168	51.089
6	BOYNERIVER 420.00		420		51.145	51.408	51.023	51.266	51.21
7	BOYNERIVER 420.00		420		51.145	51.408	51.023	51.266	51.21
8	BOYNERIVER 817.70	B21.7	817.7	D/S Awoonga Dam	51.093	51.34	50.953	51.134	51.165
9	BOYNERIVER 1383.80	B21.15	1383.8		48.246	48.432	48.136	48.222	48.28
10	BOYNERIVER 1985.90	B20.6	1985.9		45.11	45.244	45.033	45.099	45.14
11	BOYNERIVER 2182.33		2182.33	Tucker Gully	44.785	44.928	44.713	44.772	44.832
12	BOYNERIVER 2182.33		2182.33		44.785	44.928	44.713	44.772	44.832
13	BOYNERIVER 2462.80	B20.1	2462.8		43.499	43.629	43.451	43.503	43.54
14	BOYNERIVER 3120.26		3120.26	Coomal Ck	43.24	43.346	43.193	43.251	43.271
15	BOYNERIVER 3120.26		3120.26		43.24	43.346	43.193	43.251	43.271
16	BOYNERIVER 3313.40	B18.95	3313.4	Pikes Crossing	43.061	43.166	43.015	43.073	43.086
17	BOYNERIVER 3976.40	B18.3	3976.4		41.296	41.312	41.196	41.234	41.263
18	BOYNERIVER 4740.10	B17.6	4740.1		38.575	38.646	38.524	38.554	38.587
19	BOYNERIVER 5457.30	B17.0	5457.3	Manns Weir 50m U/S	38.426	38.508	38.382	38.414	38.447
20	BOYNERIVER 5457.30	B17.0	5457.3	Little Oaky Ck	38.426	38.508	38.382	38.414	38.447
21	BOYNERIVER 5934.10	B16.7	5934.1		38.382	38.466	38.339	38.371	38.405
22	BOYNERIVER 6676.80	B16.0	6676.8	Yunka Ck	38.1	38.183	38.055	38.088	38.121
23	BOYNERIVER 6676.80	B16.0	6676.8		38.1	38.183	38.055	38.088	38.121
24	BOYNERIVER 7293.40	B15.5	7293.4		37.781	37.864	37.734	37.768	37.801
25	BOYNERIVER 8050.70	B14.8	8050.7	O'L Station Offtake	37.374	37.461	37.33	37.364	37.398
26	BOYNERIVER 8050.70	B14.8	8050.7	QR Railway Bridge	37.374	37.461	37.33	37.364	37.398
27	BOYNERIVER 8522.40	B14.35	8522.4		37.32	37.405	37.274	37.308	37.342
28	BOYNERIVER 8856.20	B14.0	8856.2		37.313	37.398	37.267	37.301	37.335
29	BOYNERIVER 9247.40	B13.6	9247.4		37.117	37.202	37.072	37.106	37.139
30	BOYNERIVER 9679.30	B13.2	9679.3		36.89	36.975	36.846	36.879	36.913
31	BOYNERIVER 10080.40	B12.8	10080.4		36.953	37.038	36.908	36.942	36.976
32	BOYNERIVER 10401.00		10401		36.731	36.815	36.686	36.719	36.753
33	BOYNERIVER 10402.80		10402.8		36.733	36.816	36.683	36.721	36.751
34	BOYNERIVER 10412.80	B12.5	10412.8		36.739	36.829	36.696	36.723	36.766
35	BOYNERIVER 10414.00		10414		36.727	36.81	36.681	36.715	36.748
36	BOYNERIVER 10646.10	B12.2	10646.1	Bruce H'way Bridge	36.712	36.796	36.667	36.7	36.734
37	BOYNERIVER 10832.90		10832.9	Station Ck	36.575	36.658	36.53	36.563	36.597
38	BOYNERIVER 10832.90		10832.9		36.575	36.658	36.53	36.563	36.597
39	BOYNERIVER 11254.50	B11.6	11254.5		34.015	34.089	33.975	34.005	34.034
40	BOYNERIVER 11848.60	B11.05	11848.6	Boyne Trib2 &	30.674	30.738	30.641	30.666	30.691
41	BOYNERIVER 11848.60	B11.05	11848.6	O'L Boyne Offtake	30.674	30.738	30.641	30.666	30.691
42	BOYNERIVER 12303.00		12303		29.552	29.612	29.52	29.544	29.568
43	BOYNERIVER 12303.00		12303	Boyne Trib1	29.552	29.612	29.52	29.544	29.568
44	BOYNERIVER 12455.40	B10.5	12455.4		29.117	29.176	29.086	29.109	29.133
45	BOYNERIVER 12785.40		12785.4	Machine Ck	28.333	28.391	28.303	28.326	28.349
46	BOYNERIVER 12785.40		12785.4		28.333	28.391	28.303	28.326	28.349
47	BOYNERIVER 12874.90	B10.2	12874.9		28.025	28.082	27.995	28.018	28.04
48	BOYNERIVER 13251.30	B9.8	13251.3		27.763	27.821	27.733	27.756	27.779
49	BOYNERIVER 13865.90	B9.1	13865.9		25.747	25.798	25.721	25.741	25.761
50	BOYNERIVER 14304.56		14304.56	Wurdong Ck	24.873	24.921	24.848	24.867	24.886
51	BOYNERIVER 14304.56		14304.56		24.873	24.921	24.848	24.867	24.886
52	BOYNERIVER 14472.20	B8.5	14472.2		24.588	24.635	24.563	24.582	24.6
53	BOYNERIVER 14964.20	B8.0	14964.2		24.18	24.228	24.155	24.174	24.193
54	BOYNERIVER 15341.20	B7.55	15341.2		22.845	22.89	22.822	22.84	22.857
55	BOYNERIVER 15741.50	B7.2	15741.5		22.495	22.542	22.471	22.49	22.508
56	BOYNERIVER 16062.90		16062.9	O'L Boyne D/S	22.204	22.25	22.18	22.198	22.217
57	BOYNERIVER 16062.90		16062.9		22.204	22.25	22.18	22.198	22.217
58	BOYNERIVER 16145.40	B6.8	16145.4		22.161	22.207	22.137	22.155	22.173
59	BOYNERIVER 16727.90	B6.2	16727.9		20.99	21.033	20.967	20.984	21.002
60	BOYNERIVER 17358.60	B5.55	17358.6		20.083	20.125	20.061	20.078	20.095
61	BOYNERIVER 17722.19		17722.19	South Trees	18.475	18.514	18.455	18.47	18.486
62	BOYNERIVER 17722.19		17722.19		18.475	18.514	18.455	18.47	18.486
63	BOYNERIVER 17874.50		17874.5		18.475	18.514	18.455	18.47	18.485
64	BOYNERIVER 18184.66		18184.66	Cattle Ck	18.474	18.513	18.454	18.469	18.485
65	BOYNERIVER 18184.66		18184.66		18.474	18.513	18.454	18.469	18.485

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - 24hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 370m Time = 4.5hrs	Time = 4.0hrs	Time = 4.75hrs	Width = 350m	Width = 400m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
66	BOYNERIVER 18476.20	B4.5	18476.2		17.889	17.926	17.87	17.884	17.899
67	BOYNERIVER 18884.20	B4.05	18884.2		16.068	16.098	16.052	16.064	16.076
68	BOYNERIVER 19282.40	B3.65	19282.4		16.106	16.137	16.09	16.102	16.114
69	BOYNERIVER 19869.50	B3.15	19869.5		15.742	15.774	15.727	15.739	15.751
70	BOYNERIVER 20263.70	B2.75	20263.7		14.604	14.631	14.59	14.601	14.611
71	BOYNERIVER 20684.60	B2.45	20684.6		14.324	14.353	14.308	14.32	14.332
72	BOYNERIVER 20866.30	B2.25	20866.3		14.01	14.038	13.996	14.007	14.018
73	BOYNERIVER 21269.40	B1.85	21269.4	John Oxley Bridge	13.02	13.046	13.007	13.017	13.027
74	BOYNERIVER 21471.70	B1.65	21471.7		11.557	11.582	11.544	11.554	11.564
75	BOYNERIVER 21861.20	B1.2	21861.2		9.428	9.447	9.418	9.426	9.433
76	BOYNERIVER 22251.30	B0.9	22251.3		6.903	6.917	6.896	6.902	6.907
77	BOYNERIVER 22636.00	B0.5	22636		2.42	2.42	2.42	2.42	2.42
78	COOMALCK 0.00	C1			43.3	43.421	43.241	43.278	43.335
79	COOMALCK 398.20	C2			43.276	43.431	43.23	43.283	43.323
80	COOMALCK 794.20	C3			43.254	43.414	43.228	43.27	43.317
81	COOMALCK 1209.50	C4			43.24	43.392	43.218	43.255	43.305
82	COOMALCK 1813.30	C5			43.251	43.368	43.203	43.255	43.29
83	COOMALCK 2352.80	C6			43.253	43.359	43.198	43.255	43.288
84	COOMALCK 3112.20	C7			43.247	43.354	43.191	43.249	43.286
85	COOMALCK 3751.30	C8			43.239	43.351	43.191	43.246	43.285
86	COOMALCK 4222.50	C9			43.239	43.348	43.193	43.25	43.275
87	COOMALCK 4305.00				43.24	43.346	43.193	43.251	43.271
88	YUNKACK 0.00	Y1			38.117	38.184	38.056	38.091	38.124
89	YUNKACK 574.20	Y2			38.105	38.184	38.057	38.09	38.122
90	YUNKACK 948.90	Y3			38.103	38.184	38.055	38.089	38.121
91	YUNKACK 1253.10	Y4			38.1	38.184	38.055	38.089	38.121
92	YUNKACK 1835.50	Y5			38.099	38.184	38.055	38.09	38.122
93	YUNKACK 2434.60	Y6			38.099	38.183	38.055	38.089	38.121
94	YUNKACK 2763.00	Y7			38.1	38.183	38.055	38.088	38.121
95	TUCKERGULLY 0.00				44.868	44.98	44.786	44.839	44.986
96	TUCKERGULLY 1066.80	TU-1			44.833	44.963	44.735	44.826	44.893
97	TUCKERGULLY 1965.80	TU-2			44.799	44.948	44.761	44.814	44.892
98	TUCKERGULLY 2491.10	TU-3			44.783	44.933	44.73	44.821	44.847
99	TUCKERGULLY 3217.50	TU-4			44.801	44.942	44.748	44.825	44.829
100	TUCKERGULLY 3966.50	TU-5			44.819	44.969	44.733	44.808	44.845
101	TUCKERGULLY 4522.10	TU-6			44.802	44.941	44.741	44.785	44.859
102	TUCKERGULLY 5384.20	TU-7		Awoonga Dam Rd Xing	44.779	44.926	44.723	44.779	44.843
103	TUCKERGULLY 5765.40			Tucker Trib	44.794	44.936	44.715	44.79	44.837
104	TUCKERGULLY 5765.40				44.794	44.936	44.715	44.79	44.837
105	TUCKERGULLY 6350.10	TU-8			44.79	44.933	44.715	44.78	44.837
106	TUCKERGULLY 6669.00	TU-9			44.785	44.928	44.713	44.772	44.832
107	TUCKERTRIB 0.00				44.808	45.017	44.759	44.797	44.901
108	TUCKERTRIB 206.20	T1-1			44.794	45.027	44.769	44.788	44.882
109	TUCKERTRIB 730.40	T1-2			44.814	44.981	44.745	44.798	44.833
110	TUCKERTRIB 1416.70	T1-3			44.806	44.977	44.764	44.777	44.85
111	TUCKERTRIB 1944.80	T1-4			44.795	44.942	44.755	44.789	44.868
112	TUCKERTRIB 2331.50	T1-5			44.807	44.94	44.733	44.807	44.849
113	TUCKERTRIB 2914.70	T1-6		Awoonga Dam Rd Xing	44.803	44.942	44.735	44.779	44.834
114	TUCKERTRIB 3377.00				44.794	44.936	44.715	44.79	44.837
115	STATIONCK 0.00	S1			36.613	36.699	36.57	36.604	36.637
116	STATIONCK 684.50	S2			36.613	36.699	36.57	36.604	36.636
117	STATIONCK 1599.70	S3			36.614	36.698	36.569	36.603	36.636
118	STATIONCK 2431.30	S4			36.612	36.697	36.569	36.602	36.636
119	STATIONCK 3013.70	S5			36.613	36.697	36.568	36.602	36.635
120	STATIONCK 3734.90	S6		Bruce H'way	36.612	36.696	36.567	36.601	36.634
121	STATIONCK 4481.70	S7			36.61	36.695	36.567	36.6	36.633
122	STATIONCK 5140.80	S8			36.61	36.694	36.566	36.599	36.632
123	STATIONCK 5918.90	S9			36.609	36.693	36.564	36.598	36.631
124	STATIONCK 6575.50	S10			36.607	36.691	36.563	36.596	36.63
125	STATIONCK 6954.40			O'L Station D/S	36.606	36.69	36.562	36.595	36.629
126	STATIONCK 6954.40				36.606	36.69	36.562	36.595	36.629
127	STATIONCK 7691.00	S11			36.575	36.658	36.53	36.563	36.597
128	MACHINECK 0.00	M1			34.288	34.288	34.288	34.288	34.288
129	MACHINECK 726.30	M2			29.39	29.39	29.39	29.39	29.39
130	MACHINECK 1186.80	M3			28.337	28.395	28.307	28.33	28.353
131	MACHINECK 1699.10	M4			28.337	28.395	28.307	28.329	28.352
132	MACHINECK 2214.80	M5			28.336	28.394	28.306	28.329	28.352
133	MACHINECK 2730.60	M6			28.336	28.394	28.306	28.329	28.351

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - 24hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 370m Time = 4.5hrs	Time = 4.0hrs	Time = 4.75hrs	Width = 350m	Width = 400m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
134	MACHINECK 3140.90	M7			28.335	28.393	28.306	28.328	28.351
135	MACHINECK 3611.90	M8			28.335	28.393	28.305	28.328	28.351
136	MACHINECK 4246.80	M9		Road/Rail X-ing	28.335	28.393	28.305	28.328	28.351
137	MACHINECK 5099.90	M10			28.334	28.392	28.304	28.327	28.35
138	MACHINECK 5868.40	M11		Bruce H'way 100m U/S	28.334	28.392	28.304	28.327	28.349
139	MACHINECK 6711.00	M12			28.333	28.391	28.303	28.326	28.349
140	O'NSTATION 0.00				37.374	37.461	37.33	37.364	37.398
141	O'NSTATION 304.10	O2-1			37.34	37.426	37.295	37.329	37.363
142	O'NSTATION 1252.20	O2-2			37.208	37.294	37.163	37.197	37.231
143	O'NSTATION 1924.60	O2-3			36.929	37.014	36.885	36.918	36.952
144	O'NSTATION 2385.50				36.684	36.768	36.639	36.673	36.706
145	O'NSTATION 2588.00	O2-4		Bruce H'way	36.606	36.69	36.562	36.595	36.629
146	WURDONGCK 0.00	W1			26.761	26.761	26.761	26.761	26.761
147	WURDONGCK 616.40	W2			24.874	24.922	24.849	24.868	24.887
148	WURDONGCK 1311.60	W3			24.874	24.922	24.849	24.868	24.887
149	WURDONGCK 1752.90	W4			24.874	24.922	24.849	24.868	24.887
150	WURDONGCK 2482.50	W5		GLD/Benaraby Rd 100m D/S	24.874	24.922	24.849	24.868	24.887
151	WURDONGCK 3446.50	W6			24.873	24.922	24.849	24.867	24.886
152	WURDONGCK 4664.00	W7			24.873	24.921	24.848	24.867	24.886
153	BOYNETRIB1 0.00	T2-1			29.554	29.613	29.521	29.545	29.569
154	BOYNETRIB1 573.10	T2-2			29.553	29.613	29.521	29.545	29.569
155	BOYNETRIB1 1368.30	T2-3			29.553	29.613	29.521	29.545	29.569
156	BOYNETRIB1 1848.20	T2-4		Bruce H'way 75m D/S	29.552	29.613	29.521	29.544	29.568
157	BOYNETRIB1 2194.80	T2-5			29.552	29.613	29.52	29.544	29.568
158	BOYNETRIB1 2663.00	T2-6			29.552	29.612	29.52	29.544	29.568
159	BOYNETRIB2 0.00	T3-1			30.675	30.739	30.641	30.667	30.692
160	BOYNETRIB2 381.20	T3-2			30.675	30.739	30.641	30.667	30.692
161	BOYNETRIB2 713.60	T3-3			30.675	30.739	30.641	30.667	30.692
162	BOYNETRIB2 1247.10	T3-4			30.674	30.738	30.641	30.667	30.692
163	BOYNETRIB2 1804.00	T3-5			30.674	30.738	30.641	30.666	30.691
164	O'LANDBOYNE 0.00				30.674	30.738	30.641	30.666	30.691
165	O'LANDBOYNE 462.10	O3-1			25.096	25.148	25.068	25.089	25.11
166	O'LANDBOYNE 843.90	O3-2			23.003	23.046	22.98	22.997	23.014
167	O'LANDBOYNE 1492.50	O3-3			22.279	22.326	22.256	22.274	22.292
168	O'LANDBOYNE 1924.31			O'Land01 U/S	22.203	22.249	22.179	22.197	22.216
169	O'LANDBOYNE 1924.31				22.203	22.249	22.179	22.197	22.216
170	O'LANDBOYNE 2032.00	O3-4			22.204	22.25	22.18	22.198	22.217
171	O'LAND01 0.00				22.203	22.249	22.179	22.197	22.216
172	O'LAND01 415.30	O4-01			21.372	21.416	21.349	21.367	21.384
173	O'LAND01 1018.80	O4-02			20.811	20.855	20.789	20.806	20.823
174	O'LAND01 1360.20	O4-03			20.602	20.646	20.579	20.596	20.614
175	O'LAND01 1988.30	O4-04			20.279	20.323	20.257	20.274	20.291
176	O'LAND01 2586.50	O4-05			20.029	20.071	20.007	20.023	20.04
177	O'LAND01 3091.00	O4-06			19.328	19.368	19.307	19.323	19.339
178	CATTLECK 0.00	CC1		Tannum Sands Rd 50m D/S	19.328	19.369	19.308	19.323	19.34
179	CATTLECK 743.60	CC2			19.328	19.369	19.307	19.323	19.339
180	CATTLECK 1293.10	CC3			19.328	19.369	19.307	19.323	19.339
181	CATTLECK 1994.43			O'Land 01 D/S	19.328	19.368	19.307	19.323	19.339
182	CATTLECK 1994.43				19.328	19.368	19.307	19.323	19.339
183	CATTLECK 2124.80	CC4			18.93	18.97	18.91	18.925	18.941
184	CATTLECK 2335.00				18.474	18.513	18.454	18.469	18.485
185	STHTREES 0.00	ST1		Sth Trees/BoyneR Bifurcate	18.475	18.514	18.455	18.47	18.486
186	STHTREES 851.80	ST2			17.719	17.759	17.699	17.715	17.73
187	STHTREES 1579.60	ST3		Boyne Is Rd Bridge	17.463	17.502	17.443	17.458	17.473
188	STHTREES 2361.30	ST4			17.239	17.279	17.219	17.234	17.25
189	STHTREES 2829.50	ST5			17.195	17.234	17.175	17.19	17.206
190	STHTREES 3773.50	ST6			16.994	17.033	16.974	16.99	17.005
191	STHTREES 4171.60	ST7			16.8	16.838	16.781	16.795	16.81
192	STHTREES 4595.40	ST8			16.451	16.488	16.432	16.447	16.461
193	STHTREES 5122.39			Ten Mile Ck	16.116	16.153	16.097	16.112	16.126
194	STHTREES 5122.39				16.116	16.153	16.097	16.112	16.126
195	STHTREES 5493.40	ST9			15.673	15.708	15.655	15.668	15.682
196	STHTREES 6390.90	ST10			13.52	13.551	13.504	13.516	13.529
197	STHTREES 7658.80	ST11			11.442	11.468	11.428	11.438	11.449
198	STHTREES 8251.05			Eleven Mile Ck	11.147	11.173	11.134	11.144	11.154
199	STHTREES 8251.05				11.147	11.173	11.134	11.144	11.154
200	STHTREES 9287.10	ST12			10.413	10.437	10.401	10.41	10.42
201	STHTREES 11258.10	ST13			8.84	8.859	8.831	8.838	8.845

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: Dambreak FSL55

#### PMF Failure - Max Water Levels - 24hr

#### Sensitivity Analysis - Time for Failure & Breach Width

No	River/Branch Name	Cross Section ID	Section Distance	Location	Adopted Values	Sensitivity Analyses			
					Width = 370m Time = 4.5hrs	Time = 4.0hrs	Time = 4.75hrs	Width = 350m	Width = 400m
					Maximum	Maximum	Maximum	Maximum	Maximum
					WL (m)	WL (m)	WL (m)	WL (m)	WL (m)
202	STHTREES 12688.10	ST14			7.516	7.529	7.508	7.514	7.519
203	STHTREES 14444.90	ST15			5.935	5.938	5.933	5.934	5.936
204	STHTREES 17478.00	ST16			2.42	2.42	2.42	2.42	2.42
205	TENMILECK 0.00	T4-1		GLD/Benaraby Boyne X-ing	16.117	16.153	16.098	16.112	16.127
206	TENMILECK 510.20	T4-2			16.117	16.153	16.098	16.112	16.127
207	TENMILECK 1040.50	T4-3			16.117	16.153	16.098	16.112	16.127
208	TENMILECK 1753.90	T4-4			16.116	16.153	16.098	16.112	16.126
209	TENMILECK 2298.00	T4-5			16.116	16.153	16.097	16.112	16.126
210	ELEVENMILECK 0.00	T5-1			13.129	13.129	13.129	13.129	13.129
211	ELEVENMILECK 883.90	T5-2		GLD/Benaraby Rd	11.148	11.174	11.135	11.145	11.155
212	ELEVENMILECK 1811.40	T5-3			11.148	11.173	11.135	11.145	11.155
213	ELEVENMILECK 3118.20	T5-4			11.147	11.173	11.134	11.144	11.154
214	ELEVENMILECK 3887.00				11.147	11.173	11.134	11.144	11.154
215	LITTLEOAKYCK 0.00	O1-1A			38.43	38.508	38.382	38.415	38.448
216	LITTLEOAKYCK 670.00	O1-2A			38.426	38.509	38.382	38.415	38.447
217	LITTLEOAKYCK 1834.00	O1-3A			38.426	38.508	38.382	38.415	38.447
218	LITTLEOAKYCK 1958.00				38.426	38.508	38.382	38.414	38.447
219	SPILLWAY 0.00				58.222	58.222	58.222	58.222	58.222
220	SPILLWAY 300.00				51.145	51.408	51.023	51.266	51.21

# **AWOONGA DAM**

## **BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**

### **VOLUME II**

#### **SECTION 7.0            1 IN 100 AEP FLOOD MODELLING STUDY**

- Photo Mosaic – FSL 40, 45 & 55 – Maximum Flood Levels
- Photo Mosaic – FSL 55 – Maximum Flood Levels
- Table 7.1 – Model with Bridges included, Maximum Water Level – FSL 30, 40, 45, 55
- Table 7.2 – Model with Bridges included, Maximum Discharge - FSL 30, 40, 45, 55
- Table 7.3 – Model with Bridges included, Maximum Velocity - FSL 30, 40, 45, 55
- Table 7.4 – Model without Bridges, Maximum Water Level – FSL 30, 40, 45, 55
- Table 7.5 – FSL 55 - Sensitivity Analysis on adopted Mannings 'n' value



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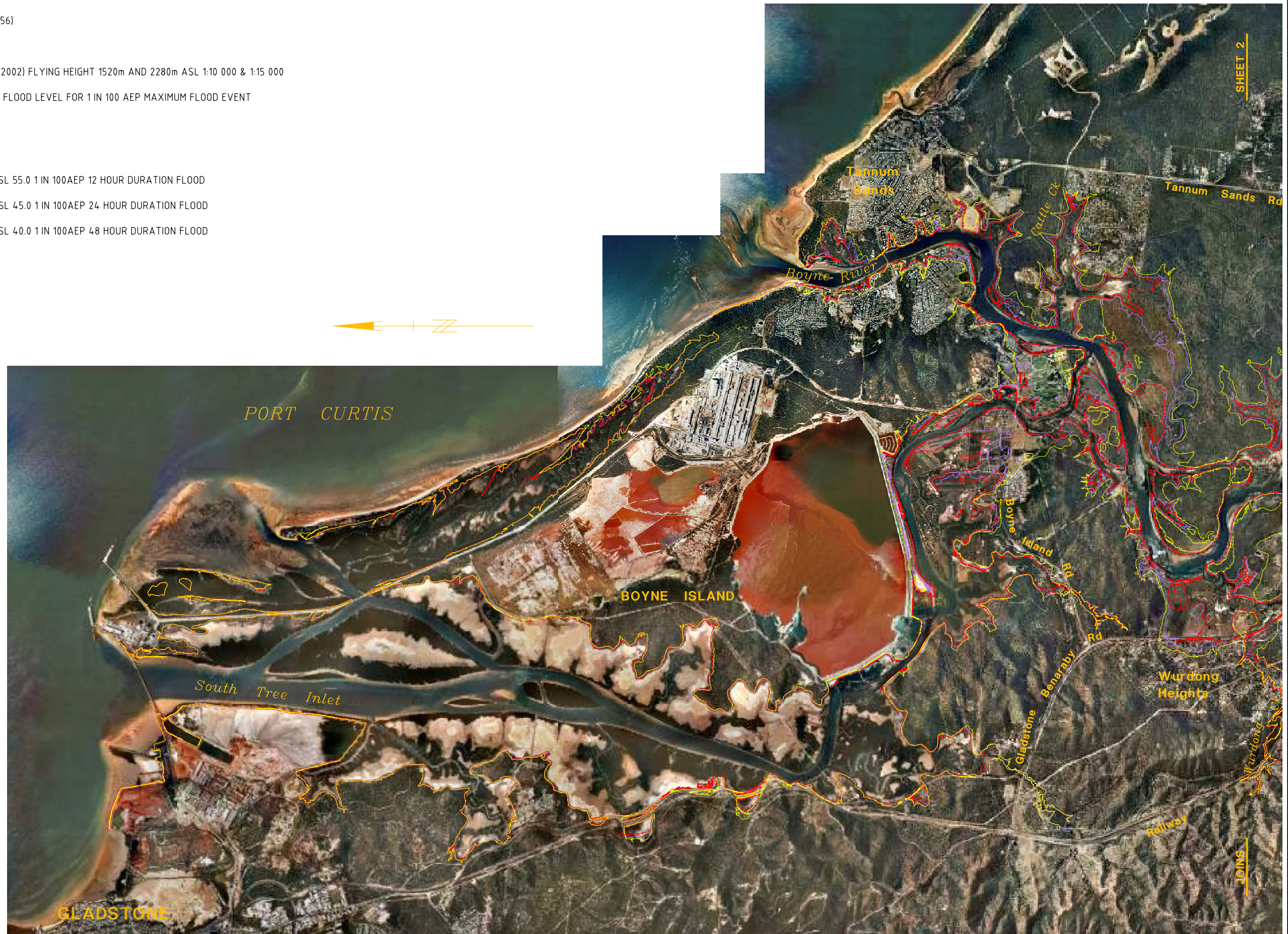
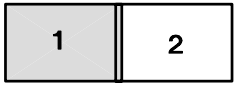
**NOTES:**

1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000
4. FLOOD LINES REPRESENTS PEAK FLOOD LEVEL FOR 1 IN 100 AEP MAXIMUM FLOOD EVENT

**LEGEND:**

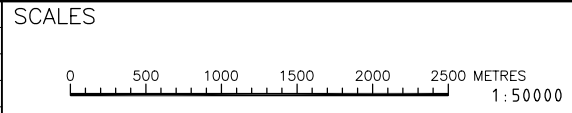
-  AWOONGA DAM FSL 55.0 1 IN 100AEP 12 HOUR DURATION FLOOD
-  AWOONGA DAM FSL 45.0 1 IN 100AEP 24 HOUR DURATION FLOOD
-  AWOONGA DAM FSL 40.0 1 IN 100AEP 48 HOUR DURATION FLOOD

**KEY TO SHEETS:**



REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220485	SHEET 2 OF 2



DRAFTING	RET	DESIGN	DR
DRAFTING CHK		DESIGN CHK	
APPROVED			
R.AYRE			
PROJECT MANAGER			
WATER STUDIES			



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**1 IN 100 AEP - FSL 40.0, 45.0 AND 55.0**  
**MAXIMUM FLOOD LEVELS**




SH 1 OF 2

CONTRACT NUMBER	
DRAWING NUMBER	<b>220484</b>
DATE	OCT 2003

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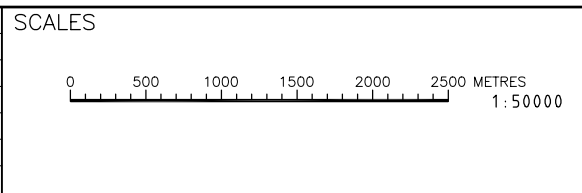
**LEGEND:**

-  AWOONGA DAM FSL 55.0 1 IN 100AEP 12 HOUR DURATION FLOOD
-  AWOONGA DAM FSL 45.0 1 IN 100AEP 24 HOUR DURATION FLOOD
-  AWOONGA DAM FSL 40.0 1 IN 100AEP 48 HOUR DURATION FLOOD

**KEY TO SHEETS:**

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REVISION	DATE	REMARKS	CKD	PSD	REFERENCE DRAWINGS



DRAFTING	RET	DESIGN	DR
DRAFTING CHK		DESIGN CHK	
APPROVED			
<b>R.AYRE</b>			
PROJECT MANAGER			
WATER STUDIES			




**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**1 IN 100 AEP - FSL 40.0, 45.0 AND 55.0**  
**MAXIMUM FLOOD LEVELS**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220485</b>
DATE	OCT 2003

**NOTES:**

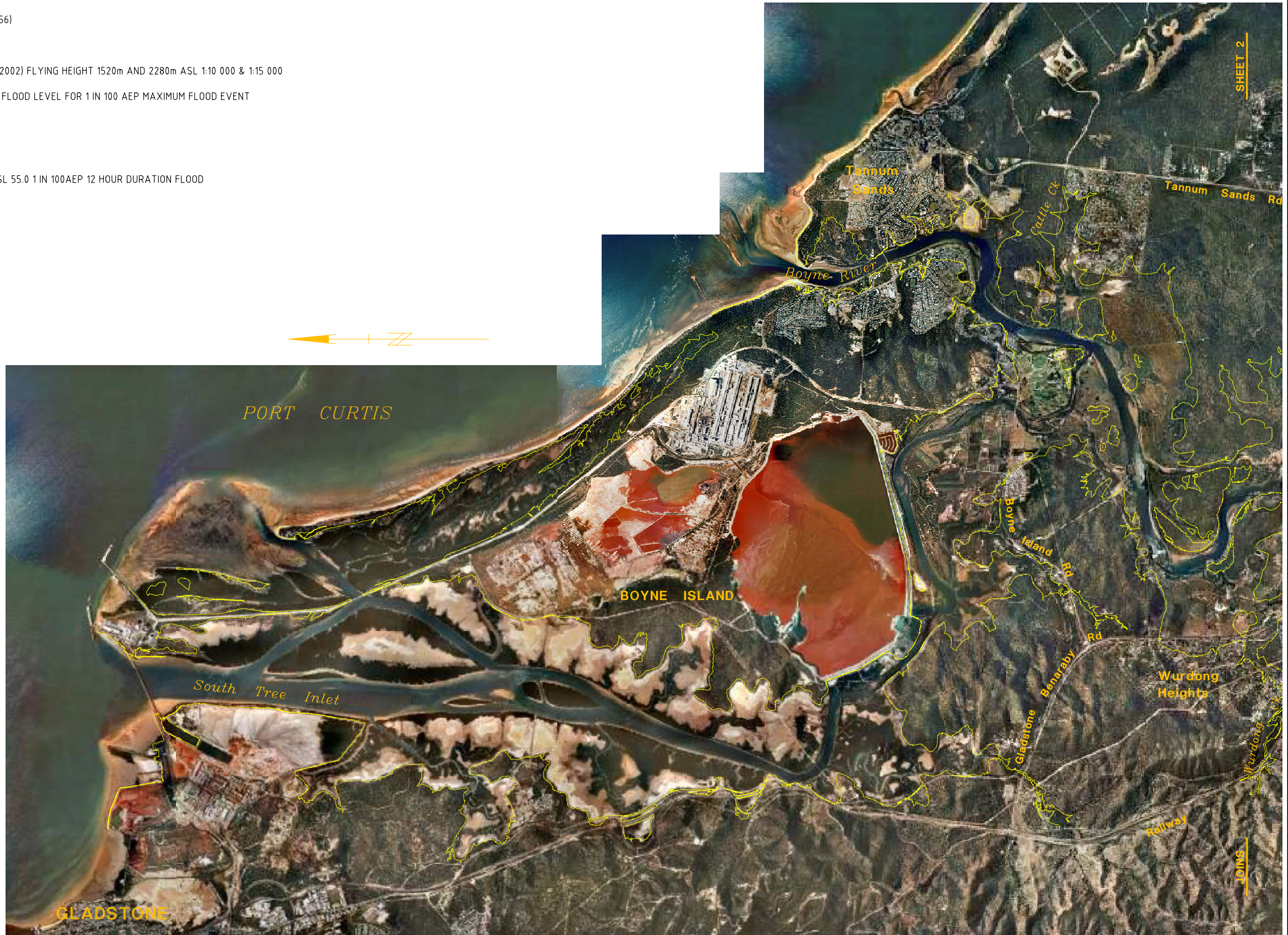
1. PROJECTION : AMG (AGD84 ZONE 56)
2. LEVELS DATUM : AHD
3. PHOTOGRAPHY : GAWB 01 (JUNE 2002) FLYING HEIGHT 1520m AND 2280m ASL 1:10 000 & 1:15 000
4. FLOOD LINES REPRESENTS PEAK FLOOD LEVEL FOR 1 IN 100 AEP MAXIMUM FLOOD EVENT

**LEGEND:**

 AWOONGA DAM FSL 55.0 1 IN 100AEP 12 HOUR DURATION FLOOD

**KEY TO SHEETS:**

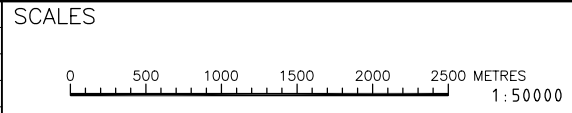
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REVISION	DATE	REMARKS	CKD	PSD

REFERENCE	DRAWINGS
220483	HYDRAULIC MODEL LAYOUT
220487	SHEET 2 OF 2



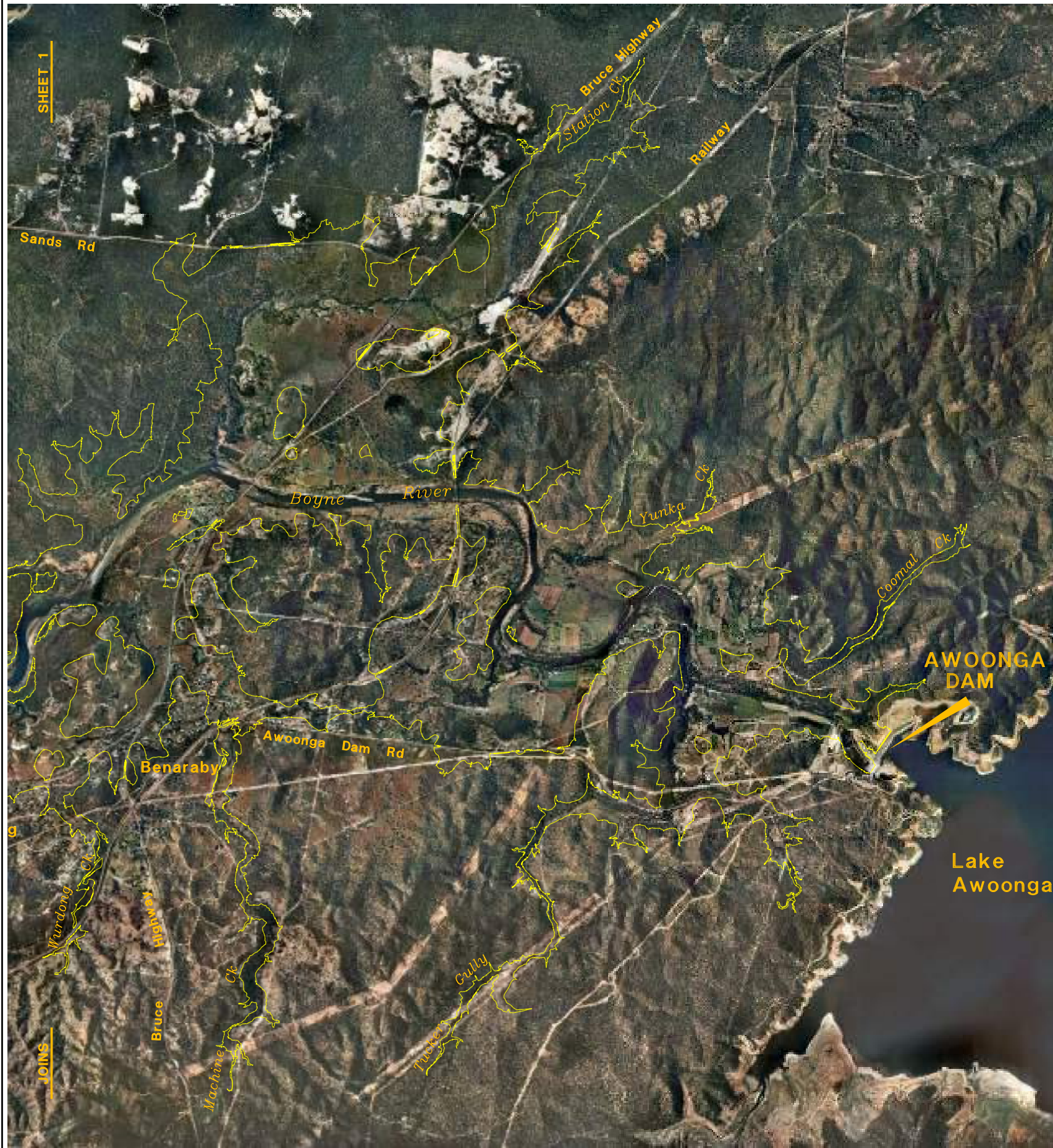
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R.AYRE			
PROJECT MANAGER WATER STUDIES			




**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**1 IN 100 AEP - FSL 55.0**  
**MAXIMUM FLOOD LEVEL**

CONTRACT NUMBER	
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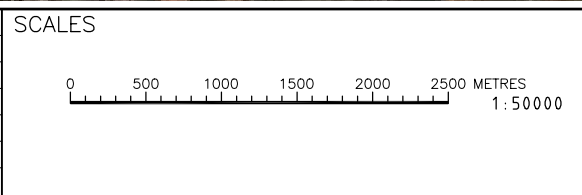
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 AWOONGA DAM FSL 55.0 1 IN 100AEP 12 HOUR DURATION FLOOD

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REVISION	DATE	REMARKS	CKD	PSD	REFERENCE DRAWINGS
					220486 SHEET 1 OF 2



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<b>R.AYRE</b>			
PROJECT MANAGER WATER STUDIES			



**AWOONGA DAM**  
**BOYNE RIVER DAM BREAK AND FLOOD MODELLING STUDY**  
**PHOTO MOSAIC**  
**1 IN 100 AEP - FSL 55.0**  
**MAXIMUM FLOOD LEVEL**

CONTRACT NUMBER	
DRAWING NUMBER	<b>220487</b>
DATE	OCT 2003

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Water Level

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	River Bed EL (m) AHD	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
1	BOYNE RIVER	0.00			8	15.252	17.086	18.721	17.814	11.721	13.141	14.275	15.160	16.081	16.955	17.286	16.953	21.978	23.235	21.878	20.684
2	BOYNE RIVER	817.70	B21.7	D/S Awoonga Dam	1.2	14.603	16.348	17.957	17.093	11.274	12.655	13.751	14.555	15.375	16.238	16.582	16.265	21.075	22.337	20.985	19.846
3	BOYNE RIVER	1383.80	B21.15		1.15	14.262	15.911	17.532	16.679	10.978	12.346	13.431	14.239	14.961	15.813	16.172	15.86	20.504	21.737	20.428	19.338
4	BOYNE RIVER	1985.90	B20.6		1.1	13.765	15.273	16.894	16.070	10.577	11.917	12.975	13.782	14.421	15.204	15.573	15.272	19.703	20.9	19.65	18.608
5	BOYNE RIVER	2182.33		Tucker Gully	1	13.627	15.110	16.763	15.932	10.450	11.781	12.838	13.655	14.289	15.048	15.428	15.124	19.569	20.761	19.519	18.481
6	BOYNE RIVER	2182.33			0.5	13.627	15.110	16.763	15.932	10.450	11.781	12.838	13.655	14.289	15.048	15.428	15.124	19.569	20.761	19.519	18.481
7	BOYNE RIVER	2462.80	B20.1		-1.49	13.4	14.820	16.440	15.625	10.287	11.599	12.637	13.442	14.051	14.773	15.127	14.853	19.176	20.352	19.135	18.111
8	BOYNE RIVER	3120.26		Coomal Ck	-1	13.162	14.575	16.139	15.319	10.084	11.377	12.414	13.220	13.817	14.544	14.849	14.626	18.834	19.991	18.803	17.801
9	BOYNE RIVER	3120.26			-1	13.162	14.575	16.139	15.319	10.084	11.377	12.414	13.220	13.817	14.544	14.849	14.626	18.834	19.991	18.803	17.801
10	BOYNE RIVER	3313.40	B18.95	Pikes Crossing	-0.185	13.101	14.513	16.061	15.245	10.035	11.326	12.358	13.162	13.758	14.483	14.79	14.568	18.746	19.9	18.716	17.716
11	BOYNE RIVER	3976.40	B18.3		-0.986	12.735	14.137	15.605	14.835	9.717	10.975	12.008	12.816	13.395	14.112	14.43	14.214	18.252	19.393	18.231	17.235
12	BOYNE RIVER	4740.10	B17.6		-0.982	11.948	13.297	14.610	13.999	9.081	10.266	11.277	12.080	12.600	13.283	13.617	13.424	16.992	18.096	17.007	16.048
13	BOYNE RIVER	5457.30	B17.0	Manns Weir 50m U/S	0.3	11.693	13.048	14.364	13.764	8.829	10.016	11.031	11.846	12.353	13.036	13.383	13.193	16.608	17.637	16.63	15.691
14	BOYNE RIVER	5457.30	B17.0	Little Oaky Ck	0.3	11.693	13.048	14.364	13.764	8.829	10.016	11.031	11.846	12.353	13.036	13.383	13.193	16.608	17.637	16.63	15.691
15	BOYNE RIVER	5934.10	B16.7		-3.516	11.433	12.760	14.056	13.476	8.627	9.796	10.793	11.601	12.085	12.753	13.102	12.922	16.248	17.276	16.276	15.334
16	BOYNE RIVER	6676.80	B16.0	Yunka Ck	-3.83	11.105	12.406	13.664	13.124	8.370	9.510	10.491	11.297	11.751	12.405	12.764	12.592	15.643	16.664	15.681	14.826
17	BOYNE RIVER	6676.80	B16.0		-3.83	11.105	12.406	13.664	13.124	8.370	9.510	10.491	11.297	11.751	12.405	12.764	12.592	15.643	16.664	15.681	14.826
18	BOYNE RIVER	7293.40	B15.5		-1.175	10.826	12.103	13.346	12.815	8.143	9.264	10.233	11.023	11.466	12.107	12.472	12.297	15.149	16.144	15.197	14.457
19	BOYNE RIVER	8050.70	B14.8	O'Land Station Ck Offtake	-0.76	10.412	11.652	12.925	12.374	7.808	8.898	9.845	10.614	11.041	11.661	12.039	11.852	14.61	15.63	14.678	14.009
20	BOYNE RIVER	8050.70	B14.8	QR Railway Bridge	-0.76	10.412	11.652	12.925	12.374	7.808	8.898	9.845	10.614	11.041	11.661	12.039	11.852	14.61	15.63	14.678	14.009
21	BOYNE RIVER	8522.40	B14.35		-0.11	10.198	11.445	12.726	12.171	7.601	8.685	9.635	10.406	10.832	11.456	11.847	11.653	14.393	15.432	14.473	13.793
22	BOYNE RIVER	8856.20	B14.0		-0.552	10.118	11.375	12.666	12.107	7.493	8.590	9.552	10.329	10.757	11.386	11.783	11.587	14.339	15.381	14.423	13.736
23	BOYNE RIVER	9247.40	B13.6		-5.211	9.984	11.235	12.526	11.966	7.368	8.461	9.422	10.197	10.621	11.248	11.65	11.45	14.185	15.234	14.276	13.584
24	BOYNE RIVER	9679.30	B13.2		-8.227	9.862	11.094	12.372	11.817	7.284	8.362	9.311	10.074	10.490	11.107	11.511	11.309	14.003	15.056	14.103	13.408
25	BOYNE RIVER	10080.40	B12.8		0.193	9.737	10.957	12.233	11.676	7.188	8.253	9.194	9.950	10.360	10.971	11.38	11.174	13.86	14.929	13.969	13.262
26	BOYNE RIVER	10362.80			-0.53	9.632	10.846	12.120	11.565	7.093	8.155	9.093	9.847	10.254	10.861	11.276	11.065	13.736	14.79	13.851	13.138
27	BOYNE RIVER	10412.80	B12.5		-1.19	9.581	10.794	12.047	11.515	7.055	8.114	9.047	9.797	10.204	10.813	11.228	11.017	13.734	14.723	13.849	13.136
28	BOYNE RIVER	10646.10	B12.2	Bruce Hwy Bridge	-6.758	9.512	10.717	11.972	11.440	7.000	8.054	8.982	9.727	10.131	10.737	11.156	10.942	13.661	14.068	13.78	13.06
29	BOYNE RIVER	10832.90		Station Ck	-6	9.431	10.623	11.868	11.339	6.945	7.988	8.907	9.646	10.044	10.642	11.064	10.847	13.549	14.03	13.674	12.947
30	BOYNE RIVER	10832.90			-6	9.431	10.623	11.868	11.339	6.945	7.988	8.907	9.646	10.044	10.642	11.064	10.847	13.549	14.03	13.674	12.947
31	BOYNE RIVER	11254.50	B11.6		-4.335	9.152	10.295	11.488	10.987	6.756	7.762	8.649	9.362	9.742	10.315	10.725	10.517	13.077	13.525	13.203	12.51
32	BOYNE RIVER	11848.60	B11.05	Boyne Trib2 &	-1.522	8.69	9.763	10.881	10.421	6.437	7.384	8.221	8.894	9.248	9.783	10.177	9.982	12.335	12.737	12.468	11.823
33	BOYNE RIVER	11848.60	B11.05	O'L Boyne Offtake	-1.522	8.69	9.763	10.881	10.421	6.437	7.384	8.221	8.894	9.248	9.783	10.177	9.982	12.335	12.737	12.468	11.823
34	BOYNE RIVER	12303.00			-1.3	8.396	9.454	10.558	10.110	6.180	7.109	7.934	8.603	8.949	9.475	9.873	9.68	11.971	12.358	12.113	11.477
35	BOYNE RIVER	12303.00		Boyne Trib1	-1.3	8.396	9.454	10.558	10.110	6.180	7.109	7.934	8.603	8.949	9.475	9.873	9.68	11.971	12.358	12.113	11.477
36	BOYNE RIVER	12455.40	B10.5		-1.219	8.283	9.337	10.436	9.993	6.073	6.999	7.823	8.491	8.835	9.358	9.757	9.566	11.833	12.216	11.979	11.347
37	BOYNE RIVER	12785.40		Machine Ck	-2	7.996	9.035	10.119	9.691	5.808	6.725	7.542	8.208	8.543	9.057	9.461	9.271	11.476	11.846	11.634	11.009
38	BOYNE RIVER	12785.40			-2	7.996	9.035	10.119	9.691	5.808	6.725	7.542	8.208	8.543	9.057	9.461	9.271	11.476	11.846	11.634	11.009
39	BOYNE RIVER	12874.90	B10.2		-5.183	7.909	8.943	10.022	9.598	5.733	6.644	7.457	8.121	8.455	8.965	9.368	9.181	11.366	11.731	11.523	10.904
40	BOYNE RIVER	13251.30	B9.8		-2.052	7.718	8.750	9.830	9.410	5.559	6.459	7.268	7.933	8.264	8.772	9.178	8.993	11.17	11.534	11.33	10.711
41	BOYNE RIVER	13865.90	B9.1		-3.814	7.303	8.285	9.315	8.927	5.249	6.102	6.874	7.515	7.827	8.306	8.7	8.532	10.562	10.9	10.72	10.14
42	BOYNE RIVER	14304.56		Wurdong Ck	-3	7.108	8.073	9.089	8.713	5.094	5.926	6.685	7.319	7.625	8.094	8.487	8.324	10.309	10.64	10.468	9.897
43	BOYNE RIVER	14304.56			-3	7.108	8.073	9.089	8.713	5.094	5.926	6.685	7.319	7.625	8.094	8.487	8.324	10.309	10.64	10.468	9.897
44	BOYNE RIVER	14472.20	B8.5		-3.39	7.056	8.018	9.032	8.657	5.052	5.879	6.635	7.268	7.573	8.039	8.432	8.27	10.244	10.573	10.402	9.834
45	BOYNE RIVER	14964.20	B8.0		-4.348	6.843	7.783	8.783	8.414	4.887	5.691	6.431	7.051	7.351	7.804	8.191	8.033	9.97	10.292	10.125	9.567

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Water Level

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	River Bed EL (m) AHD	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
46	BOYNE RIVER	15341.20	B7.55		-8.212	6.566	7.474	8.439	8.089	4.689	5.456	6.168	6.768	7.061	7.494	7.874	7.722	9.565	9.87	9.713	9.182
47	BOYNE RIVER	15741.50	B7.2		-2.008	6.311	7.204	8.158	7.818	4.474	5.219	5.918	6.511	6.801	7.224	7.606	7.456	9.247	9.542	9.389	8.874
48	BOYNE RIVER	16062.90		O'L Boyne D/S	-2	6.171	7.068	8.030	7.691	4.335	5.075	5.777	6.371	6.664	7.088	7.477	7.326	9.12	9.417	9.263	8.745
49	BOYNE RIVER	16062.90			-2	6.171	7.068	8.030	7.691	4.335	5.075	5.777	6.371	6.664	7.088	7.477	7.326	9.12	9.417	9.263	8.745
50	BOYNE RIVER	16145.40	B6.8		-3.303	6.14	7.035	7.996	7.658	4.310	5.047	5.748	6.341	6.633	7.055	7.444	7.294	9.087	9.385	9.231	8.711
51	BOYNE RIVER	16727.90	B6.2		-1.982	5.805	6.665	7.612	7.286	4.063	4.757	5.429	5.999	6.281	6.685	7.076	6.931	8.676	8.972	8.819	8.304
52	BOYNE RIVER	17358.60	B5.55		-3.638	5.438	6.253	7.185	6.872	3.807	4.448	5.082	5.625	5.894	6.272	6.667	6.529	8.238	8.542	8.384	7.861
53	BOYNE RIVER	17722.19		South Trees	-5	5.073	5.799	6.668	6.388	3.615	4.184	4.753	5.243	5.484	5.816	6.2	6.076	7.645	7.944	7.783	7.284
54	BOYNE RIVER	17722.19			-5	5.073	5.799	6.668	6.388	3.615	4.184	4.753	5.243	5.484	5.816	6.2	6.076	7.645	7.944	7.783	7.284
55	BOYNE RIVER	17874.50			-9.286	4.968	5.674	6.527	6.249	3.564	4.110	4.660	5.132	5.366	5.690	6.065	5.944	7.502	7.802	7.642	7.142
56	BOYNE RIVER	18184.66		Cattle Ck	-5	4.828	5.516	6.365	6.084	3.486	4.004	4.530	4.986	5.212	5.532	5.901	5.782	7.359	7.667	7.505	6.993
57	BOYNE RIVER	18184.66			-5	4.828	5.516	6.365	6.084	3.486	4.004	4.530	4.986	5.212	5.532	5.901	5.782	7.359	7.667	7.505	6.993
58	BOYNE RIVER	18476.20	B4.5		-4.314	4.686	5.357	6.194	5.915	3.399	3.890	4.397	4.840	5.061	5.374	5.735	5.619	7.18	7.489	7.327	6.816
59	BOYNE RIVER	18884.20	B4.05		-5.69	4.449	5.076	5.871	5.604	3.269	3.713	4.181	4.593	4.798	5.091	5.432	5.321	6.818	7.116	6.96	6.469
60	BOYNE RIVER	19282.40	B3.65		-4.216	4.339	4.961	5.754	5.488	3.202	3.623	4.075	4.480	4.685	4.977	5.317	5.207	6.703	7.005	6.847	6.351
61	BOYNE RIVER	19869.50	B3.15		-4.786	4.111	4.703	5.464	5.207	3.075	3.447	3.865	4.245	4.439	4.717	5.043	4.938	6.408	6.719	6.557	6.047
62	BOYNE RIVER	20263.70	B2.75		-8.132	3.889	4.448	5.175	4.928	2.970	3.292	3.665	4.014	4.197	4.462	4.772	4.672	6.089	6.401	6.237	5.738
63	BOYNE RIVER	20684.60	B2.45		-7.427	3.689	4.193	4.902	4.653	2.882	3.158	3.488	3.802	3.967	4.206	4.496	4.397	5.818	6.136	5.969	5.466
64	BOYNE RIVER	20866.30	B2.25		-6.386	3.613	4.115	4.816	4.571	2.848	3.105	3.416	3.725	3.889	4.128	4.416	4.319	5.723	6.045	5.873	5.373
65	BOYNE RIVER	21269.40	B1.85	John Oxley Bridge	-7.437	3.412	3.858	4.522	4.286	2.768	2.978	3.240	3.509	3.654	3.870	4.14	4.048	5.397	5.718	5.546	5.058
66	BOYNE RIVER	21471.70	B1.65		-6.99	3.114	3.410	3.821	3.680	2.658	2.816	3.000	3.179	3.275	3.417	3.591	3.533	4.279	4.416	4.343	4.111
67	BOYNE RIVER	21861.20	B1.2		-6.234	2.993	3.251	3.617	3.492	2.610	2.741	2.895	3.050	3.133	3.258	3.412	3.36	4.003	4.115	4.055	3.863
68	BOYNE RIVER	22251.30	B0.9		-5.304	2.799	2.983	3.251	3.159	2.541	2.627	2.732	2.839	2.898	2.988	3.1	3.062	3.538	3.619	3.576	3.435
69	BOYNE RIVER	22636.00	B0.5		-6.273	2.42	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.42	2.42	2.42	2.42	2.42	2.42
70	COOMAL CK	0.00	C1			38.018	38.051	38.064	37.740	38.018	38.051	38.064	37.740	38.018	38.051	38.064	37.74	38.021	38.057	38.064	37.74
71	COOMAL CK	398.20	C2			33.341	33.375	33.385	33.058	33.341	33.375	33.385	33.058	33.341	33.375	33.385	33.058	33.341	33.376	33.385	33.059
72	COOMAL CK	794.20	C3			29.642	29.675	29.684	29.377	30.506	29.675	29.684	29.377	29.642	33.599	29.684	29.377	29.643	29.676	29.684	29.378
73	COOMAL CK	1209.50	C4			26.578	26.613	26.636	26.244	26.578	26.613	26.636	26.244	26.579	26.613	26.636	26.243	26.578	26.617	26.636	26.245
74	COOMAL CK	1813.30	C5			21.907	21.945	21.956	21.603	22.041	21.944	21.956	21.603	21.904	22.118	21.953	21.604	21.939	21.961	21.97	21.599
75	COOMAL CK	2352.80	C6			17.112	17.132	17.193	16.770	17.114	17.134	17.195	16.771	17.133	17.152	17.212	16.785	18.835	21.255	18.805	17.804
76	COOMAL CK	3112.20	C7			13.182	14.578	16.138	15.319	12.396	12.254	12.440	13.220	13.838	14.548	14.85	14.627	18.835	21.255	18.803	17.802
77	COOMAL CK	3751.30	C8			13.164	14.575	16.138	15.319	10.084	11.386	12.415	13.220	13.818	14.539	14.85	14.626	18.835	21.255	18.803	17.801
78	COOMAL CK	4222.50	C9			13.162	14.575	16.139	15.319	10.083	11.377	12.413	13.220	13.816	14.543	14.849	14.626	18.834	21.255	18.803	17.801
79	COOMAL CK	4305.00				13.162	14.575	16.139	15.319	10.084	11.377	12.414	13.220	13.817	14.544	14.849	14.626	18.834	21.255	18.803	17.801
80	YUNKA CK	0.00	Y1			34.489	34.469	34.713	36.578	34.489	34.469	34.713	36.578	34.489	34.469	34.713	36.578	34.49	34.472	34.713	36.579
81	YUNKA CK	574.20	Y2			26.859	26.836	26.994	28.006	26.859	26.836	26.994	28.006	26.859	26.836	26.994	28.006	26.859	26.836	26.994	28.007
82	YUNKA CK	948.90	Y3			22.26	22.245	22.403	23.645	22.260	22.245	22.403	23.645	22.260	22.245	22.403	23.645	22.261	22.246	22.404	23.645
83	YUNKA CK	1253.10	Y4			19.001	18.989	19.111	20.621	19.001	18.989	19.111	20.620	19.002	18.996	19.112	20.625	19.011	19.844	19.118	20.62
84	YUNKA CK	1835.50	Y5			11.106	12.407	13.663	13.135	9.440	9.510	10.489	12.016	11.750	12.405	12.797	12.608	15.643	19.844	15.681	14.832
85	YUNKA CK	2434.60	Y6			11.105	12.406	13.664	13.126	8.370	9.510	10.492	11.300	11.751	12.406	12.761	12.594	15.643	19.844	15.681	14.827
86	YUNKA CK	2763.00	Y7			11.105	12.406	13.664	13.124	8.370	9.510	10.491	11.297	11.751	12.405	12.764	12.592	15.643	19.844	15.681	14.826
87	TUCKER GULLY	0.00				36.642	36.659	36.799	36.533	36.642	36.659	36.799	36.533	36.642	36.659	36.799	36.533	36.642	36.659	36.799	36.533
88	TUCKER GULLY	1066.80	TU-1			34.565	34.578	34.682	34.484	34.565	34.578	34.682	34.484	34.565	34.578	34.682	34.484	34.565	34.578	34.682	34.484
89	TUCKER GULLY	1965.80	TU-2			29.598	29.607	29.736	29.501	29.598	29.607	29.736	29.501	29.598	29.607	29.736	29.501	29.598	29.607	29.736	29.501
90	TUCKER GULLY	2491.10	TU-3			26.377	26.385	26.512	26.280	26.377	26.385	26.512	26.280	26.377	26.385	26.512	26.28	26.378	26.386	26.513	26.28

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Water Level

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	River Bed EL (m) AHD	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr	
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
91	TUCKER GULLY	3217.50	TU-4			22.046	22.056	22.185	21.949	22.046	22.056	22.185	21.949	22.046	22.056	22.185	21.949	22.042	22.054	22.184	21.949	
92	TUCKER GULLY	3966.50	TU-5			18.377	18.381	18.540	18.261	18.377	18.381	18.540	18.261	18.377	18.381	18.54	18.261	19.572	21.741	19.528	18.495	
93	TUCKER GULLY	4522.10	TU-6			16.391	16.395	16.766	16.282	16.391	16.395	16.545	16.282	16.385	16.396	16.544	16.283	19.57	21.741	19.521	18.483	
94	TUCKER GULLY	5384.20	TU-7	Awoonga Dam Road X-ing		13.628	15.110	16.763	15.932	12.531	12.535	12.838	13.659	14.289	15.052	15.428	15.125	19.569	21.74	19.52	18.481	
95	TUCKER GULLY	5765.40		Tucker Trib		13.627	15.110	16.763	15.932	10.450	11.782	12.838	13.656	14.289	15.051	15.428	15.124	19.569	21.74	19.519	18.481	
96	TUCKER GULLY	5765.40				13.627	15.110	16.763	15.932	10.450	11.782	12.838	13.656	14.289	15.051	15.428	15.124	19.569	21.74	19.519	18.481	
97	TUCKER GULLY	6350.10	TU-8			13.627	15.110	16.763	15.932	10.450	11.781	12.838	13.655	14.289	15.049	15.428	15.124	19.569	21.74	19.519	18.481	
98	TUCKER GULLY	6669.00	TU-9			13.627	15.110	16.763	15.932	10.450	11.781	12.838	13.655	14.289	15.049	15.428	15.124	19.569	21.74	19.519	18.481	
99	TUCKER TRIB	0.00				30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815
100	TUCKER TRIB	206.20	T1-1			30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261
101	TUCKER TRIB	730.40	T1-2			27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265
102	TUCKER TRIB	1416.70	T1-3			20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	21.741	20.311	20.311	20.311
103	TUCKER TRIB	1944.80	T1-4			15.755	15.755	16.764	15.952	15.755	15.755	15.755	15.755	15.755	15.755	15.755	15.755	19.57	21.741	19.52	18.483	
104	TUCKER TRIB	2331.50	T1-5			14.178	15.111	16.763	15.932	14.178	14.178	14.178	14.178	14.300	15.055	15.428	15.125	19.57	21.741	19.52	18.482	
105	TUCKER TRIB	2914.70	T1-6	Awoonga Dam Road X-ing		13.628	15.110	16.763	15.932	11.713	11.832	12.841	13.656	14.290	15.053	15.428	15.124	19.569	21.74	19.52	18.482	
106	TUCKER TRIB	3377.00				13.627	15.110	16.763	15.932	10.450	11.782	12.838	13.656	14.289	15.051	15.428	15.124	19.569	21.74	19.519	18.481	
107	STATION CK	0.00	S1			16.576	16.527	16.666	15.793	16.576	16.527	16.666	15.793	16.576	16.527	16.666	15.793	16.577	16.528	16.666	15.794	
108	STATION CK	684.50	S2			15.244	15.135	15.359	14.072	15.244	15.135	15.359	14.072	15.244	15.135	15.359	14.072	15.245	15.136	15.359	14.072	
109	STATION CK	1599.70	S3			13.599	13.452	13.695	11.804	13.599	13.452	13.695	11.804	13.599	13.452	13.695	11.804	13.598	14.323	13.751	12.954	
110	STATION CK	2431.30	S4			10.733	10.654	11.871	11.341	10.733	10.654	10.892	9.766	10.733	10.655	11.114	10.849	13.554	14.321	13.685	12.95	
111	STATION CK	3013.70	S5			9.432	10.624	11.869	11.340	9.304	9.223	9.458	9.647	10.044	10.643	11.074	10.848	13.553	14.32	13.681	12.95	
112	STATION CK	3734.90	S6	Bruce H'way		9.431	10.624	11.869	11.340	8.004	7.988	8.908	9.646	10.044	10.643	11.067	10.848	13.553	14.32	13.68	12.95	
113	STATION CK	4481.70	S7			9.431	10.624	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.643	11.065	10.848	13.553	14.32	13.679	12.95	
114	STATION CK	5140.80	S8			9.431	10.624	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.643	11.065	10.847	13.553	14.319	13.679	12.949	
115	STATION CK	5918.90	S9			9.431	10.623	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.643	11.065	10.847	13.552	14.319	13.679	12.949	
116	STATION CK	6575.50	S10			9.431	10.623	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.643	11.065	10.847	13.552	14.318	13.678	12.949	
117	STATION CK	6954.40		O'L Station D/S		9.431	10.623	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.642	11.065	10.847	13.552	14.318	13.678	12.949	
118	STATION CK	6954.40				9.431	10.623	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.642	11.065	10.847	13.552	14.318	13.678	12.949	
119	STATION CK	7691.00	S11			9.431	10.623	11.868	11.339	6.945	7.988	8.907	9.646	10.044	10.642	11.064	10.847	13.549	14.03	13.674	12.947	
120	MACHINE CK	0.00	M1			34.181	34.203	34.288	33.615	34.181	34.203	34.288	33.615	34.181	34.203	34.288	33.615	34.181	34.203	34.288	33.616	
121	MACHINE CK	726.30	M2			29.298	29.313	29.390	28.714	29.298	29.313	29.390	28.714	29.298	29.313	29.39	28.714	29.298	29.313	29.39	28.714	
122	MACHINE CK	1186.80	M3			27.084	27.093	27.141	26.615	27.084	27.093	27.141	26.615	27.084	27.093	27.141	26.615	27.084	27.093	27.142	26.615	
123	MACHINE CK	1699.10	M4			23.586	23.598	23.693	22.924	23.586	23.598	23.693	22.924	23.586	23.598	23.693	22.924	23.586	23.599	23.693	22.925	
124	MACHINE CK	2214.80	M5			21.151	21.158	21.217	20.809	21.151	21.158	21.217	20.809	21.151	21.158	21.217	20.809	21.151	21.159	21.217	20.81	
125	MACHINE CK	2730.60	M6			17.541	17.549	17.611	17.122	17.541	17.549	17.611	17.122	17.541	17.549	17.611	17.122	17.541	17.549	17.611	17.122	
126	MACHINE CK	3140.90	M7			15.53	15.538	15.602	14.841	15.530	15.538	15.602	14.841	15.530	15.538	15.602	14.841	15.53	15.538	15.602	14.842	
127	MACHINE CK	3611.90	M8			13.25	13.260	13.342	12.686	13.250	13.260	13.342	12.686	13.250	13.260	13.342	12.686	13.25	13.26	13.342	12.685	
128	MACHINE CK	4246.80	M9	Road/Rail X-ing		11.452	11.457	11.529	10.988	11.452	11.457	11.528	10.987	11.454	11.458	11.529	10.992	11.477	11.848	11.672	11.014	
129	MACHINE CK	5099.90	M10			7.996	9.035	10.119	9.691	6.664	6.725	7.542	8.208	8.543	9.057	9.461	9.271	11.476	11.847	11.635	11.009	
130	MACHINE CK	5868.40	M11	Bruce H'way 100m U/S		7.996	9.035	10.119	9.691	5.808	6.725	7.542	8.208	8.543	9.057	9.461	9.271	11.476	11.847	11.634	11.009	
131	MACHINE CK	6711.00	M12			7.996	9.035	10.119	9.691	5.808	6.725	7.542	8.208	8.543	9.057	9.461	9.271	11.476	11.846	11.634	11.009	
132	O'NSTATION	0.00				10.412	11.652	12.925	12.374	7.808	8.898	9.845	10.614	11.041	11.661	12.039	11.852	14.61	19.551	14.678	14.009	
133	O'NSTATION	304.10	O2-1			10.405	11.649	12.905	12.370	7.591	8.702	9.840	10.607	11.028	11.659	12.031	11.85	14.572	19.382	14.64	13.987	
134	O'NSTATION	1252.20	O2-2			10.326	11.609	12.777	12.313	7.287	8.366	9.771	10.530	10.921	11.620	11.974	11.819	14.379	18.77	14.445	13.855	
135	O'NSTATION	1924.60	O2-3			9.735	10.665	12.309	11.386	7.161	8.228	9.362	9.977	10.199	10.683	11.109	10.875	13.839	17.684	13.946	13.199	

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Water Level

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	River Bed EL (m) AHD	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
136	O'NSTATION	2385.50				9.546	10.641	11.903	11.352	7.028	8.078	9.174	9.785	10.113	10.660	11.081	10.861	13.61	15.879	13.734	12.984
137	O'NSTATION	2588.00	O2-4	Bruce H'way		9.431	10.623	11.869	11.340	6.945	7.988	8.908	9.646	10.044	10.642	11.065	10.847	13.552	14.318	13.678	12.949
138	WURDONG CK	0.00	W1			26.604	26.598	26.761	27.313	26.604	26.598	26.761	27.313	26.604	26.598	26.761	27.313	26.605	26.602	26.761	27.313
139	WURDONG CK	616.40	W2			21.383	21.390	21.557	22.025	21.383	21.390	21.557	22.025	21.383	21.390	21.557	22.025	21.384	21.391	21.558	22.025
140	WURDONG CK	1311.60	W3			16.266	16.239	16.472	17.003	16.266	16.239	16.472	17.003	16.265	16.239	16.472	17.003	16.266	16.24	16.472	17.003
141	WURDONG CK	1752.90	W4			13.748	13.739	13.960	14.556	13.748	13.739	13.960	14.556	13.749	13.741	13.961	14.556	13.75	13.746	13.963	14.557
142	WURDONG CK	2482.50	W5	GLD/Benaraby Rd 100m D/S		8.493	8.479	9.089	9.147	8.493	8.480	8.583	9.147	8.489	8.474	8.579	9.144	10.309	10.641	10.469	9.901
143	WURDONG CK	3446.50	W6			7.108	8.073	9.089	8.713	5.094	5.926	6.685	7.320	7.625	8.094	8.487	8.325	10.309	10.641	10.468	9.898
144	WURDONG CK	4664.00	W7			7.108	8.073	9.089	8.713	5.094	5.926	6.685	7.319	7.625	8.094	8.487	8.324	10.309	10.64	10.468	9.897
145	BOYNETRIB1	0.00	T2-1			24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036
146	BOYNETRIB1	573.10	T2-2			16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242
147	BOYNETRIB1	1368.30	T2-3			10.418	10.418	10.563	10.418	10.418	10.418	10.418	10.418	10.418	10.418	10.418	10.418	11.971	12.359	12.113	11.478
148	BOYNETRIB1	1848.20	T2-4	Bruce H'way 75m D/S		10.163	10.163	10.559	10.163	10.163	10.163	10.163	10.163	10.163	10.163	10.163	10.163	11.971	12.359	12.113	11.478
149	BOYNETRIB1	2194.80	T2-5			9.444	9.456	10.558	10.110	9.444	9.444	9.444	9.444	9.444	9.476	9.873	9.68	11.971	12.359	12.113	11.477
150	BOYNETRIB1	2663.00	T2-6			8.396	9.454	10.558	10.110	6.180	7.109	7.934	8.603	8.949	9.475	9.873	9.68	11.971	12.358	12.113	11.477
151	BOYNETRIB2	0.00	T3-1			18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325
152	BOYNETRIB2	381.20	T3-2			14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526
153	BOYNETRIB2	713.60	T3-3			10.377	10.377	10.882	10.428	10.377	10.377	10.377	10.377	10.377	10.377	10.377	10.377	12.336	12.737	12.468	11.823
154	BOYNETRIB2	1247.10	T3-4			8.691	9.763	10.881	10.421	6.805	7.402	8.222	8.894	9.248	9.783	10.178	9.982	12.335	12.737	12.468	11.823
155	BOYNETRIB2	1804.00	T3-5			8.69	9.763	10.881	10.421	6.437	7.384	8.221	8.894	9.248	9.783	10.177	9.982	12.335	12.737	12.468	11.823
156	O'LANDBOYNE	0.00				8.69	9.763	10.881	10.421	6.437	7.384	8.221	8.894	9.248	9.783	10.177	9.982	12.335	12.737	12.468	11.823
157	O'LANDBOYNE	462.10	O3-1			7.211	8.204	9.271	8.849	5.153	6.012	6.782	7.409	7.736	8.225	8.615	8.436	10.621	10.987	10.765	10.144
158	O'LANDBOYNE	843.90	O3-2			6.603	7.582	8.630	8.236	4.586	5.410	6.177	6.810	7.131	7.604	8.005	7.833	9.892	10.241	10.043	9.448
159	O'LANDBOYNE	1492.50	O3-3			6.272	7.154	8.091	7.758	4.429	5.183	5.884	6.468	6.757	7.174	7.549	7.4	9.177	9.473	9.319	8.802
160	O'LANDBOYNE	1924.31		O'Land01 U/S		6.199	7.093	8.044	7.710	4.350	5.098	5.805	6.399	6.692	7.113	7.497	7.346	9.125	9.419	9.267	8.752
161	O'LANDBOYNE	1924.31				6.199	7.093	8.044	7.710	4.350	5.098	5.805	6.399	6.692	7.113	7.497	7.346	9.125	9.419	9.267	8.752
162	O'LANDBOYNE	2032.00	O3-4			6.171	7.068	8.030	7.691	4.335	5.075	5.777	6.371	6.664	7.088	7.477	7.326	9.12	9.417	9.263	8.745
163	O'LAND01	0.00				6.199	7.093	8.044	7.710	4.350	5.098	5.805	6.399	6.692	7.113	7.497	7.346	9.125	9.419	9.267	8.752
164	O'LAND01	415.30	O4-01			6.199	7.083	7.999	7.687	4.350	5.098	5.805	6.399	6.692	7.102	7.478	7.33	8.998	9.269	9.13	8.65
165	O'LAND01	1018.80	O4-02			6.198	7.042	7.858	7.606	5.800	5.800	5.805	6.396	6.687	7.060	7.409	7.269	8.682	8.919	8.801	8.382
166	O'LAND01	1360.20	O4-03			4.972	6.181	7.163	6.943	4.200	4.200	4.536	5.194	5.491	6.212	6.732	6.543	8.078	8.382	8.232	7.731
167	O'LAND01	1988.30	O4-04			4.831	5.591	6.525	6.219	4.200	4.200	4.531	4.991	5.220	5.612	6.025	5.887	7.596	7.938	7.761	7.202
168	O'LAND01	2586.50	O4-05			4.828	5.519	6.395	6.097	3.486	4.004	4.530	4.987	5.213	5.536	5.91	5.789	7.471	7.811	7.635	7.074
169	O'LAND01	3091.00	O4-06			4.828	5.517	6.372	6.087	3.486	4.004	4.530	4.986	5.212	5.533	5.903	5.784	7.389	7.707	7.541	7.013
170	CATTLE CK	0.00	CC1	Tannum Sands Rd 50m D/S		7.945	7.928	8.015	7.939	7.945	7.928	8.015	7.939	7.944	7.928	8.015	7.939	7.944	7.929	8.015	7.939
171	CATTLE CK	743.60	CC2			6.096	6.089	6.372	6.088	6.096	6.089	6.194	6.088	6.095	6.089	6.193	6.088	7.389	7.708	7.541	7.014
172	CATTLE CK	1293.10	CC3			4.828	5.517	6.372	6.087	3.486	4.004	4.530	4.987	5.212	5.533	5.903	5.784	7.389	7.708	7.541	7.013
173	CATTLE CK	1994.43		O'Land01 D/S		4.828	5.517	6.372	6.087	3.486	4.004	4.530	4.986	5.212	5.533	5.903	5.784	7.389	7.707	7.541	7.013
174	CATTLE CK	1994.43				4.828	5.517	6.372	6.087	3.486	4.004	4.530	4.986	5.212	5.533	5.903	5.784	7.389	7.707	7.541	7.013
175	CATTLE CK	2124.80	CC4			4.828	5.516	6.369	6.085	3.486	4.004	4.530	4.986	5.212	5.533	5.902	5.783	7.376	7.69	7.525	7.005
176	CATTLE CK	2335.00				4.828	5.516	6.365	6.084	3.486	4.004	4.530	4.986	5.212	5.532	5.901	5.782	7.359	7.667	7.505	6.993
177	STH TREES	0.00	ST1	Sth Trees/BoyneR Bifurcate		5.073	5.799	6.668	6.388	3.615	4.184	4.753	5.243	5.484	5.816	6.2	6.076	7.645	7.944	7.783	7.284
178	STH TREES	851.80	ST2			4.438	4.990	5.557	5.190	3.158	3.588	4.095	4.629	4.861	5.000	5.039	5.04	6.895	7.269	7.019	6.371
179	STH TREES	1400.00				4.268	4.799	5.387	5.003	3.034	3.428	3.919	4.464	4.712	4.807	4.838	4.839	6.773	7.169	6.896	6.213
180	STH TREES	1470.00				3.864	4.458	4.935	4.686	2.955	3.282	3.638	3.981	4.156	4.484	4.567	4.557	5.667	5.845	5.815	5.447



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Water Level

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	River Bed EL (m) AHD	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
181	STH TREES	1579.60	ST3	Boyne Is Rd Bridge		3.813	4.383	4.852	4.599	2.934	3.249	3.595	3.927	4.096	4.408	4.487	4.477	5.602	5.778	5.757	5.381
182	STH TREES	2361.30	ST4			3.522	4.037	4.528	4.252	2.820	3.071	3.347	3.616	3.752	4.064	4.144	4.132	5.317	5.499	5.495	5.1
183	STH TREES	2829.50	ST5			3.436	3.935	4.421	4.149	2.783	3.014	3.272	3.524	3.652	3.962	4.042	4.03	5.22	5.404	5.405	5.002
184	STH TREES	3773.50	ST6			3.296	3.772	4.242	3.980	2.706	2.908	3.144	3.381	3.502	3.799	3.876	3.867	5.047	5.236	5.246	4.829
185	STH TREES	4171.60	ST7			3.236	3.705	4.171	3.911	2.672	2.860	3.087	3.319	3.438	3.731	3.808	3.8	4.974	5.164	5.178	4.759
186	STH TREES	4595.40	ST8			3.151	3.602	4.059	3.804	2.634	2.802	3.011	3.231	3.344	3.628	3.703	3.697	4.856	5.045	5.065	4.644
187	STH TREES	5122.39		Ten Mile Ck		3.064	3.484	3.924	3.678	2.602	2.749	2.936	3.137	3.242	3.508	3.581	3.578	4.704	4.889	4.919	4.498
188	STH TREES	5122.39				3.064	3.484	3.924	3.678	2.602	2.749	2.936	3.137	3.242	3.508	3.581	3.578	4.704	4.889	4.919	4.498
189	STH TREES	5493.40	ST9			3.021	3.422	3.848	3.609	2.588	2.725	2.901	3.092	3.191	3.446	3.516	3.513	4.609	4.789	4.82	4.408
190	STH TREES	6390.90	ST10			2.755	3.026	3.341	3.163	2.502	2.576	2.680	2.801	2.867	3.044	3.095	3.093	3.934	4.079	4.115	3.778
191	STH TREES	7658.80	ST11			2.585	2.733	2.920	2.813	2.459	2.495	2.547	2.610	2.645	2.743	2.781	2.774	3.299	3.401	3.458	3.203
192	STH TREES	8251.05		Eleven Mile Ck		2.571	2.707	2.882	2.782	2.456	2.488	2.536	2.593	2.625	2.717	2.754	2.746	3.243	3.341	3.4	3.151
193	STH TREES	8251.05				2.571	2.707	2.882	2.782	2.456	2.488	2.536	2.593	2.625	2.717	2.754	2.746	3.243	3.341	3.4	3.151
194	STH TREES	9287.10	ST12			2.543	2.656	2.804	2.719	2.449	2.475	2.514	2.561	2.588	2.664	2.695	2.689	3.117	3.206	3.258	3.036
195	STH TREES	11258.10	ST13			2.492	2.560	2.653	2.599	2.437	2.452	2.475	2.503	2.519	2.565	2.585	2.581	2.857	2.917	2.954	2.803
196	STH TREES	12688.10	ST14			2.461	2.500	2.554	2.522	2.429	2.438	2.451	2.467	2.476	2.502	2.514	2.511	2.677	2.714	2.739	2.644
197	STH TREES	14444.90	ST15			2.442	2.463	2.493	2.476	2.425	2.430	2.437	2.445	2.450	2.465	2.471	2.47	2.564	2.586	2.6	2.545
198	STH TREES	17478.00	ST16			2.42	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.42	2.42	2.42	2.42	2.42	2.42
199	TEN MILE CK	0.00	T4-1	GLD/Benaraby Boyne X-ing		10.472	10.477	10.602	10.371	10.472	10.477	10.602	10.371	10.472	10.477	10.602	10.371	10.472	10.478	10.602	10.372
200	TEN MILE CK	510.20	T4-2			4.944	4.951	5.095	4.822	4.944	4.951	5.095	4.822	4.944	4.951	5.095	4.821	4.944	4.951	5.097	4.822
201	TEN MILE CK	1040.50	T4-3			3.064	3.484	3.924	3.678	2.668	2.749	2.937	3.138	3.242	3.508	3.581	3.579	4.705	4.89	4.92	4.498
202	TEN MILE CK	1753.90	T4-4			3.064	3.484	3.924	3.678	2.602	2.749	2.936	3.137	3.242	3.508	3.581	3.578	4.704	4.89	4.919	4.498
203	TEN MILE CK	2298.00	T4-5			3.064	3.484	3.924	3.678	2.602	2.749	2.936	3.137	3.242	3.508	3.581	3.578	4.704	4.889	4.919	4.498
204	ELEVEN MILE CK	0.00	T5-1			13.072	13.083	13.129	12.456	13.072	13.083	13.129	12.456	13.072	13.083	13.129	12.456	13.072	13.083	13.129	12.456
205	ELEVEN MILE CK	883.90	T5-2	GLD/Benaraby Rd		5.735	5.761	5.874	4.935	5.735	5.761	5.874	4.935	5.735	5.761	5.874	4.935	5.735	5.761	5.874	4.935
206	ELEVEN MILE CK	1811.40	T5-3			2.571	2.707	2.882	2.782	2.513	2.516	2.536	2.593	2.625	2.717	2.758	2.747	3.243	3.341	3.403	3.151
207	ELEVEN MILE CK	3118.20	T5-4			2.571	2.707	2.882	2.782	2.456	2.488	2.536	2.593	2.625	2.717	2.755	2.746	3.243	3.341	3.401	3.151
208	ELEVEN MILE CK	3887.00				2.571	2.707	2.882	2.782	2.456	2.488	2.536	2.593	2.625	2.717	2.754	2.746	3.243	3.341	3.4	3.151
209	LITTLE OAKY CK	0.00	O1-1A			17.66	17.672	17.731	17.737	17.661	17.673	17.731	17.738	17.658	17.670	17.729	17.737	17.662	20.138	17.728	17.735
210	LITTLE OAKY CK	670.00	O1-2A			11.693	13.048	14.364	13.764	10.694	10.710	11.031	11.846	12.353	13.036	13.38	13.193	16.608	20.138	16.63	15.691
211	LITTLE OAKY CK	1834.00	O1-3A			11.693	13.048	14.364	13.764	8.829	10.016	11.031	11.846	12.353	13.036	13.384	13.193	16.608	20.138	16.63	15.691
212	LITTLE OAKY CK	1958.00				11.693	13.048	14.364	13.764	8.829	10.016	11.031	11.846	12.353	13.036	13.383	13.193	16.608	20.138	16.63	15.691

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Discharge

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)
1	BOYNE RIVER	0.00			2766.82	3572.90	4383.98	3856.74	1395.48	1873.69	2315.03	2640.49	3070.02	3457.25	3570.04	3397.88	7052.41	8224.67	6883.74	5915.13
2	BOYNE RIVER	817.70	B21.7	D/S Awoonga Dam	2764.76	3570.77	4382.96	3855.76	1395.15	1873.21	2314.82	2639.92	3068.68	3456.72	3569.98	3397.45	7033.17	8181.89	6872.17	5899.95
3	BOYNE RIVER	1383.80	B21.15		2764.23	3568.79	4382.22	3854.93	1394.76	1873.43	2314.65	2639.62	3068.06	3456.24	3570.13	3397.06	7021.55	8152.60	6864.58	5891.52
4	BOYNE RIVER	1985.90	B20.6		2763.57	3566.58	4381.36	3853.96	1394.47	1873.30	2314.45	2639.31	3066.98	3455.65	3570.42	3396.59	7009.99	8120.64	6856.74	5882.81
5	BOYNE RIVER	2182.33		Tucker Gully	2763.34	3565.75	4381.06	3853.64	1394.47	1873.02	2314.39	2639.19	3066.30	3455.43	3570.56	3396.40	7005.95	8109.78	6853.93	5879.45
6	BOYNE RIVER	2182.33			2766.05	3567.89	4409.53	3886.43	1402.82	1874.26	2321.28	2676.90	3068.83	3462.76	3597.61	3434.77	6964.66	7903.26	6841.17	5862.91
7	BOYNE RIVER	2462.80	B20.1		2765.66	3566.85	4409.06	3885.99	1398.48	1873.61	2321.21	2676.72	3069.20	3462.47	3597.65	3434.65	6959.44	7889.33	6836.87	5859.01
8	BOYNE RIVER	3120.26		Coomal Ck	2763.64	3563.43	4407.36	3884.40	1394.85	1874.62	2320.97	2676.07	3068.78	3461.48	3598.02	3434.32	6939.15	7836.17	6819.93	5843.83
9	BOYNE RIVER	3120.26			2772.67	3560.63	4419.23	3897.65	1419.58	1876.10	2324.34	2692.89	3071.92	3490.15	3615.32	3457.35	6897.29	7722.58	6805.17	5823.04
10	BOYNE RIVER	3313.40	B18.95	Pikes Crossing	2770.20	3559.42	4418.48	3897.07	1409.55	1875.79	2323.24	2692.61	3069.43	3488.03	3614.84	3457.14	6891.11	7708.13	6799.90	5818.41
11	BOYNE RIVER	3976.40	B18.3		2765.33	3555.11	4415.86	3894.90	1400.31	1873.31	2322.84	2691.69	3065.94	3487.57	3614.70	3456.51	6871.65	7664.37	6783.04	5801.17
12	BOYNE RIVER	4740.10	B17.6		2760.86	3551.48	4413.35	3893.08	1406.31	1873.08	2323.59	2691.00	3064.83	3486.58	3615.71	3456.06	6856.35	7622.45	6769.27	5784.47
13	BOYNE RIVER	5457.30	B17.0	Manns Weir 50m U/S	2753.30	3547.06	4410.26	3890.90	1392.55	1872.11	2322.90	2690.15	3064.05	3484.87	3617.20	3455.59	6837.17	7573.22	6751.31	5765.31
14	BOYNE RIVER	5457.30	B17.0	Little Oaky Ck	2741.01	3527.13	4397.70	3889.39	1389.43	1869.33	2322.05	2696.20	3056.83	3468.57	3630.15	3466.17	6691.39	7329.23	6629.95	5674.61
15	BOYNE RIVER	5934.10	B16.7		2737.99	3524.89	4397.03	3888.20	1388.85	1868.13	2321.36	2695.62	3056.15	3467.36	3633.36	3465.99	6675.29	7301.29	6615.76	5665.72
16	BOYNE RIVER	6676.80	B16.0	Yunka Ck	2734.34	3522.04	4396.04	3886.25	1388.12	1866.83	2321.03	2694.91	3054.83	3465.46	3633.63	3465.84	6640.63	7252.74	6584.70	5646.64
17	BOYNE RIVER	6676.80	B16.0		2731.79	3518.78	4394.71	3976.55	1387.88	1865.39	2320.49	2781.18	3053.87	3463.72	3634.54	3562.27	6614.87	7211.13	6568.03	5742.32
18	BOYNE RIVER	7293.40	B15.5		2728.04	3515.84	4393.43	3974.86	1387.16	1864.67	2320.51	2779.79	3052.93	3462.92	3625.83	3561.86	6590.43	7195.51	6543.18	5725.03
19	BOYNE RIVER	8050.70	B14.8	O'Land Station Ck Offtake	2723.82	3510.91	4391.24	3972.15	1386.24	1863.89	2320.77	2777.85	3051.49	3461.95	3648.24	3561.33	6559.95	7265.73	6511.85	5698.47
20	BOYNE RIVER	8050.70	B14.8	QR Railway Bridge	2716.00	3496.26	4308.89	3942.99	1384.87	1861.88	2315.56	2770.07	3042.26	3449.41	3622.65	3548.73	6116.85	6120.80	6053.54	5524.80
21	BOYNE RIVER	8522.40	B14.35		2712.30	3491.99	4306.70	3941.34	1384.17	1860.79	2315.52	2768.33	3040.76	3448.52	3622.31	3548.26	6090.30	6045.35	6029.19	5519.23
22	BOYNE RIVER	8856.20	B14.0		2707.50	3488.12	4306.14	3939.75	1383.16	1859.02	2315.23	2766.38	3038.92	3448.17	3615.59	3547.75	6069.43	6064.72	6010.01	5525.33
23	BOYNE RIVER	9247.40	B13.6		2702.24	3485.32	4305.76	3938.22	1382.03	1857.20	2315.05	2764.30	3037.22	3447.95	3607.74	3547.19	6049.21	6016.84	5991.22	5518.71
24	BOYNE RIVER	9679.30	B13.2		2699.45	3483.51	4306.17	3937.28	1381.30	1856.39	2314.88	2762.94	3036.60	3447.72	3604.64	3546.79	6036.53	5975.62	5979.53	5491.65
25	BOYNE RIVER	10080.40	B12.8		2697.60	3481.63	4306.03	3936.40	1380.62	1855.68	2314.74	2761.58	3036.00	3447.45	3604.76	3546.37	6022.85	6066.32	5966.81	5489.72
26	BOYNE RIVER	10362.80			2695.99	3479.96	4304.86	3935.69	1380.11	1855.14	2314.66	2760.39	3035.51	3447.22	3605.43	3546.03	6040.69	6337.19	6038.31	5874.46
27	BOYNE RIVER	10412.80	B12.5		2695.69	3479.66	4305.03	3935.56	1380.02	1855.04	2314.65	2760.21	3035.42	3447.17	3605.54	3545.96	6590.52	6554.57	6543.36	5434.46
28	BOYNE RIVER	10646.10	B12.2	Bruce Hwy Bridge	2694.25	3478.13	4303.37	3934.81	1379.60	1854.57	2314.60	2759.42	3034.93	3446.89	3606.13	3545.66	6052.70	6139.07	5947.06	5546.27
29	BOYNE RIVER	10832.90		Station Ck	2693.14	3476.92	4301.43	3934.24	1379.29	1854.23	2314.58	2758.81	3034.57	3446.69	3606.61	3545.44	6134.12	6330.12	5940.68	5581.83
30	BOYNE RIVER	10832.90			2649.28	3443.34	4405.92	3954.00	1375.53	1850.43	2331.06	2762.76	3030.82	3450.72	3733.17	3570.63	6097.47	6686.12	6186.26	5423.07
31	BOYNE RIVER	11254.50	B11.6		2648.68	3442.75	4405.47	3953.68	1375.36	1850.21	2331.02	2762.60	3030.61	3450.54	3733.01	3570.54	6095.05	6664.71	6184.31	5421.80
32	BOYNE RIVER	11848.60	B11.05	Boyne Trib2 &	2647.95	3442.13	4405.04	3953.22	1375.16	1849.94	2331.02	2762.42	3030.31	3450.29	3733.03	3570.48	6091.98	6657.52	6181.77	5420.20
33	BOYNE RIVER	11848.60	B11.05	O'L Boyne Offtake	2275.00	2869.22	3562.06	3232.92	1264.22	1652.24	2028.66	2355.84	2560.78	2873.44	3071.48	2953.30	4762.77	5162.14	4811.37	4281.31
34	BOYNE RIVER	12303.00			2274.26	2868.50	3561.80	3232.49	1264.02	1651.98	2028.62	2355.66	2560.50	2873.20	3071.79	2953.29	4759.65	5156.99	4808.61	4279.73
35	BOYNE RIVER	12303.00		Boyne Trib1	2274.62	2868.98	3561.93	3232.88	1264.91	1652.80	2029.58	2356.52	2561.24	2873.95	3072.62	2954.28	4746.04	5131.00	4796.00	4274.19
36	BOYNE RIVER	12455.40	B10.5		2274.34	2868.82	3561.82	3232.76	1264.83	1652.69	2029.55	2356.47	2561.13	2873.87	3072.60	2954.29	4745.11	5129.53	4795.15	4273.73
37	BOYNE RIVER	12785.40		Machine Ck	2273.70	2868.44	3561.62	3232.48	1264.67	1652.47	2029.50	2356.36	2560.92	2873.73	3072.60	2954.32	4743.08	5126.29	4793.29	4272.71
38	BOYNE RIVER	12785.40			2270.99	2865.88	3571.19	3244.83	1264.15	1651.85	2031.36	2363.18	2560.02	2874.32	3109.93	2968.18	4716.04	5084.35	4815.20	4274.66
39	BOYNE RIVER	12874.90	B10.2		2270.88	2865.81	3571.13	3244.77	1264.11	1651.81	2031.35	2363.16	2559.98	2874.28	3109.85	2968.17	4715.64	5083.75	4814.93	4274.47
40	BOYNE RIVER	13251.30	B9.8		2270.27	2865.37	3570.68	3244.48	1263.97	1651.58	2031.31	2363.02	2559.74	2874.09	3109.46	2968.11	4713.38	5080.37	4813.43	4273.39
41	BOYNE RIVER	13865.90	B9.1		2269.36	2864.60	3570.03	3244.01	1263.77	1651.26	2031.23	2362.80	2559.37	2873.81	3108.84	2968.09	4709.55	5074.57	4810.86	4271.62
42	BOYNE RIVER	14304.56		Wurdong Ck	2268.67	2864.02	3569.59	3243.69	1263.61	1651.02	2031.14	2362.68	2559.11	2873.59	3108.44	2968.07	4706.67	5070.23	4808.94	4270.32
43	BOYNE RIVER	14304.56			2264.20	2859.45	3566.42	3270.46	1262.92	1649.73	2030.81	2382.33	2557.18	2871.97	3111.77	3000.48	4667.79	5004.46	4817.73	4286.91
44	BOYNE RIVER	14472.20	B8.5		2264.04	2859.36	3566.37	3270.32	1262.88	1649.67	2030.79	2382.24	2557.13	2871.92	3111.69	3000.41	4667.34	5003.71	4817.59	4286.63
45	BOYNE RIVER	14964.20	B8.0		2263.62	2859.03	3566.19	3269.90	1262.78	1649.50	2030.73	2381.97	2556.95	2871.80	3111.41	3000.23	4665.75	5000.92	4817.07	4285.66

**BOYNE RIVER**  
**Dambreak and Flood Modelling Study**  
**Feature: 1 in 100 AEP Flood Model (Bridges Modelled)**  
**Maximum Discharge**

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)
46	BOYNE RIVER	15341.20	B7.55		2263.33	2858.78	3566.07	3269.59	1262.73	1649.39	2030.68	2381.80	2556.86	2871.73	3111.20	3000.09	4664.68	4998.91	4816.70	4284.99
47	BOYNE RIVER	15741.50	B7.2		2263.03	2858.55	3565.93	3269.28	1262.66	1649.28	2030.65	2381.60	2556.74	2871.65	3110.98	2999.94	4663.61	4996.84	4816.30	4284.29
48	BOYNE RIVER	16062.90		O'L Boyne D/S	2262.66	2858.28	3565.75	3268.90	1262.60	1649.14	2030.61	2381.35	2556.62	2871.58	3110.73	2999.78	4662.43	4994.38	4815.80	4283.47
49	BOYNE RIVER	16062.90			2632.50	3375.44	4175.31	3853.76	1374.49	1847.68	2333.60	2782.11	3015.57	3391.27	3668.73	3531.78	5298.91	5619.83	5423.21	4914.16
50	BOYNE RIVER	16145.40	B6.8		2632.40	3375.36	4175.24	3853.64	1374.47	1847.65	2333.58	2782.06	3015.53	3391.23	3668.67	3531.74	5298.12	5618.44	5422.98	4913.77
51	BOYNE RIVER	16727.90	B6.2		2631.80	3374.87	4174.83	3853.07	1374.37	1847.43	2333.50	2781.77	3015.33	3391.07	3668.32	3531.52	5293.89	5610.39	5421.64	4911.59
52	BOYNE RIVER	17358.60	B5.55		2631.38	3374.54	4174.52	3852.67	1374.30	1847.27	2333.44	2781.54	3015.19	3390.95	3668.10	3531.38	5290.62	5603.50	5420.51	4909.72
53	BOYNE RIVER	17722.19		South Trees	2631.15	3374.37	4174.37	3852.47	1374.27	1847.20	2333.41	2781.44	3015.11	3390.89	3667.98	3531.31	5288.98	5599.75	5419.90	4908.77
54	BOYNE RIVER	17722.19			1883.93	2315.49	2788.05	2660.75	1023.38	1356.80	1690.87	1986.95	2140.27	2322.23	2550.76	2473.74	3234.88	3359.14	3268.51	3050.85
55	BOYNE RIVER	17874.50			1883.87	2315.40	2787.93	2660.68	1023.37	1356.78	1690.85	1986.93	2140.24	2322.20	2550.71	2473.71	3234.13	3357.73	3267.76	3050.53
56	BOYNE RIVER	18184.66		Cattle Ck	1883.73	2315.22	2787.68	2660.53	1023.35	1356.74	1690.83	1986.88	2140.17	2322.15	2550.59	2473.68	3232.48	3354.62	3266.11	3049.84
57	BOYNE RIVER	18184.66			1885.85	2367.04	3017.58	2796.16	1023.26	1356.47	1690.90	1994.19	2150.37	2378.61	2654.37	2562.55	3871.04	4149.28	3995.01	3541.67
58	BOYNE RIVER	18476.20	B4.5		1885.79	2366.97	3017.54	2796.10	1023.26	1356.46	1690.89	1994.17	2150.35	2378.59	2654.32	2562.51	3870.70	4148.65	3994.84	3541.47
59	BOYNE RIVER	18884.20	B4.05		1885.72	2366.87	3017.48	2796.01	1023.24	1356.43	1690.88	1994.12	2150.31	2378.56	2654.26	2562.44	3870.20	4147.70	3994.59	3541.16
60	BOYNE RIVER	19282.40	B3.65		1885.63	2366.77	3017.39	2795.88	1023.24	1356.40	1690.86	1994.07	2150.28	2378.52	2654.19	2562.33	3869.55	4146.45	3994.25	3540.75
61	BOYNE RIVER	19869.50	B3.15		1885.49	2366.58	3017.25	2795.69	1023.23	1356.37	1690.84	1993.99	2150.21	2378.46	2654.06	2562.15	3868.29	4144.05	3993.66	3540.04
62	BOYNE RIVER	20263.70	B2.75		1885.43	2366.51	3017.18	2795.61	1023.23	1356.36	1690.84	1993.97	2150.19	2378.43	2654.01	2562.11	3867.63	4142.74	3993.34	3539.67
63	BOYNE RIVER	20684.60	B2.45		1885.39	2366.43	3017.13	2795.53	1023.23	1356.36	1690.83	1993.95	2150.16	2378.41	2653.95	2562.08	3867.10	4141.67	3993.06	3539.38
64	BOYNE RIVER	20866.30	B2.25		1885.37	2366.42	3017.10	2795.49	1023.23	1356.36	1690.83	1993.93	2150.16	2378.40	2653.93	2562.06	3866.88	4141.24	3992.94	3539.26
65	BOYNE RIVER	21269.40	B1.85	John Oxley Bridge	1885.34	2366.39	3017.07	2795.46	1023.23	1356.35	1690.83	1993.92	2150.15	2378.39	2653.90	2562.05	3866.64	4140.77	3992.81	3539.12
66	BOYNE RIVER	21471.70	B1.65		1885.33	2366.38	3017.07	2795.45	1023.23	1356.35	1690.83	1993.92	2150.15	2378.39	2653.90	2562.05	3866.62	4140.73	3992.81	3539.11
67	BOYNE RIVER	21861.20	B1.2		1885.33	2366.36	3017.06	2795.43	1023.23	1356.34	1690.82	1993.92	2150.14	2378.38	2653.89	2562.04	3866.58	4140.68	3992.79	3539.09
68	BOYNE RIVER	22251.30	B0.9		1885.34	2366.36	3017.05	2795.41	1023.23	1356.35	1690.82	1993.91	2150.14	2378.38	2653.89	2562.03	3866.55	4140.63	3992.78	3539.07
69	BOYNE RIVER	22636.00	B0.5		1885.34	2366.37	3017.05	2795.42	1023.23	1356.35	1690.82	1993.91	2150.14	2378.38	2653.89	2562.03	3866.55	4140.62	3992.78	3539.07
70	COOMAL CK	0.00	C1		184.42	189.64	193.00	137.39	184.42	189.64	193.00	137.39	184.42	189.64	193.00	137.39	185.60	192.49	193.10	137.50
71	COOMAL CK	398.20	C2		184.95	191.09	192.92	137.25	184.95	191.09	192.92	137.25	184.95	191.09	192.92	137.25	184.97	191.23	193.03	137.39
72	COOMAL CK	794.20	C3		184.79	190.97	192.94	137.31	184.79	190.97	192.94	137.31	184.79	192.80	192.94	137.31	184.89	191.05	193.01	137.40
73	COOMAL CK	1209.50	C4		183.98	189.64	192.96	137.25	183.98	189.64	192.96	137.25	183.98	242.17	192.96	137.24	184.57	190.40	192.98	137.26
74	COOMAL CK	1813.30	C5		184.03	189.34	192.90	137.27	184.03	189.34	192.91	137.27	184.03	189.34	192.91	137.30	183.69	188.99	192.63	137.28
75	COOMAL CK	2352.80	C6		182.07	185.72	192.58	136.40	182.03	185.71	192.49	136.37	181.97	185.61	192.41	136.06	184.62	189.54	196.50	136.50
76	COOMAL CK	3112.20	C7		180.90	183.73	192.34	136.14	193.29	183.70	192.15	136.09	180.36	183.36	191.93	135.60	178.88	185.33	196.66	138.53
77	COOMAL CK	3751.30	C8		180.75	183.26	192.39	136.02	215.60	182.52	193.07	136.32	136.24	137.77	159.10	121.50	115.10	124.90	134.14	106.69
78	COOMAL CK	4222.50	C9		174.04	178.10	186.43	131.36	178.59	180.00	190.49	132.98	111.30	123.10	122.46	95.24	162.13	137.01	133.26	156.33
79	COOMAL CK	4305.00			171.34	175.65	183.62	129.35	177.06	178.54	188.87	131.47	108.84	121.21	113.79	88.20	166.38	139.63	136.64	160.17
80	YUNKA CK	0.00	Y1		60.54	59.78	73.42	470.70	60.54	59.78	73.42	470.70	60.54	59.78	73.42	470.70	60.66	59.80	74.28	471.00
81	YUNKA CK	574.20	Y2		60.43	59.17	73.56	470.50	60.43	59.17	73.56	470.50	60.43	59.17	73.56	470.50	60.46	59.21	73.58	470.79
82	YUNKA CK	948.90	Y3		60.36	59.08	72.96	470.68	60.36	59.08	72.96	470.68	60.36	59.08	72.96	470.68	60.38	59.09	73.04	470.72
83	YUNKA CK	1253.10	Y4		60.31	59.01	72.64	470.66	60.31	59.01	72.64	470.66	60.30	58.98	72.63	470.67	60.28	59.03	72.70	470.74
84	YUNKA CK	1835.50	Y5		60.32	59.02	72.53	470.69	60.31	59.02	72.52	470.62	60.61	59.07	72.60	470.42	60.60	139.64	72.85	468.04
85	YUNKA CK	2434.60	Y6		60.03	58.68	71.96	469.46	60.06	58.74	71.99	469.66	59.30	58.09	71.03	464.36	56.71	87.92	67.94	452.04
86	YUNKA CK	2763.00	Y7		59.67	58.16	71.52	468.05	59.78	58.37	71.64	468.65	56.86	61.24	68.83	455.84	56.13	92.87	61.92	432.16
87	TUCKER GULLY	0.00			238.05	242.73	262.66	221.05	238.05	242.73	262.66	221.05	238.05	242.73	262.66	221.05	238.40	244.49	262.70	221.10
88	TUCKER GULLY	1066.80	TU-1		236.17	238.06	258.95	220.49	236.17	238.06	258.95	220.49	236.17	238.06	258.95	220.49	236.17	238.14	258.99	220.49
89	TUCKER GULLY	1965.80	TU-2		235.98	237.44	258.47	220.40	235.98	237.44	258.47	220.40	235.98	237.44	258.47	220.40	236.00	237.46	258.57	220.41
90	TUCKER GULLY	2491.10	TU-3		235.94	237.16	258.45	220.38	235.94	237.16	258.45	220.38	235.94	237.16	258.45	220.38	235.94	237.30	258.46	220.38

Table 7.2

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Discharge

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr	
					Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)	Max Discharge (m <sup>3</sup> /s)
91	TUCKER GULLY	3217.50	TU-4		235.83	237.11	258.35	220.34	235.83	237.11	258.35	220.34	235.83	237.11	258.35	220.34	235.90	237.14	258.37	220.38	
92	TUCKER GULLY	3966.50	TU-5		235.51	236.33	257.79	220.21	235.51	236.33	257.79	220.21	235.51	236.33	257.80	220.21	235.70	236.04	257.78	220.13	
93	TUCKER GULLY	4522.10	TU-6		235.39	235.95	257.52	220.15	235.39	235.95	257.53	220.15	235.55	235.97	257.49	220.13	234.76	236.74	260.66	221.60	
94	TUCKER GULLY	5384.20	TU-7	Awoonga Dam Road X-ing	235.65	235.90	257.63	220.30	235.36	235.71	257.41	220.20	232.41	232.18	255.62	218.71	215.10	222.37	245.70	209.21	
95	TUCKER GULLY	5765.40		Tucker Trib	235.41	235.74	257.43	220.17	235.24	235.64	257.32	220.11	223.43	222.60	248.16	212.58	187.29	198.69	217.25	186.47	
96	TUCKER GULLY	5765.40			236.24	236.61	258.28	221.07	236.18	236.58	258.26	221.06	220.15	220.77	246.73	211.59	162.81	179.40	196.60	179.38	
97	TUCKER GULLY	6350.10	TU-8		229.64	230.51	251.52	216.03	232.60	232.74	253.87	217.35	198.60	193.22	220.88	189.82	157.17	176.81	151.54	156.93	
98	TUCKER GULLY	6669.00	TU-9		224.83	226.18	246.58	212.18	229.89	230.06	250.67	214.58	190.90	182.02	208.07	178.46	194.14	212.40	168.74	187.45	
99	TUCKER TRIB	0.00			2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
100	TUCKER TRIB	206.20	T1-1		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
101	TUCKER TRIB	730.40	T1-2		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
102	TUCKER TRIB	1416.70	T1-3		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
103	TUCKER TRIB	1944.80	T1-4		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	4.72	10.26	3.44	2.79	
104	TUCKER TRIB	2331.50	T1-5		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	10.61	19.86	7.02	6.22	
105	TUCKER TRIB	2914.70	T1-6	Awoonga Dam Road X-ing	2.50	3.30	5.75	4.19	2.50	2.50	2.50	2.50	2.50	2.50	2.60	2.50	2.81	21.21	31.47	13.56	15.25
106	TUCKER TRIB	3377.00			2.50	5.40	10.99	7.74	2.50	2.50	2.50	2.50	2.50	2.50	4.02	4.41	4.31	30.82	41.16	22.99	26.17
107	STATION CK	0.00	S1		493.73	475.03	530.66	167.73	493.73	475.03	530.66	167.73	493.73	475.03	530.66	167.73	494.00	475.10	530.70	168.00	
108	STATION CK	684.50	S2		487.42	465.82	521.83	168.68	487.42	465.82	521.83	168.68	487.42	465.82	521.83	168.68	487.53	465.94	522.04	168.74	
109	STATION CK	1599.70	S3		466.90	441.89	516.78	166.52	466.90	441.89	516.78	166.52	466.92	441.90	516.77	166.53	467.01	441.90	516.90	166.60	
110	STATION CK	2431.30	S4		461.44	437.12	512.39	166.38	461.44	437.12	512.39	166.38	461.46	437.19	512.46	166.39	456.53	479.43	511.40	166.55	
111	STATION CK	3013.70	S5		459.89	435.68	505.86	166.12	459.72	435.55	505.69	166.12	453.59	433.38	504.77	166.13	417.86	838.90	479.04	166.30	
112	STATION CK	3734.90	S6	Bruce H'way	460.97	436.88	503.96	163.75	459.98	436.19	503.11	163.87	428.98	420.80	485.92	168.30	362.50	1356.54	402.89	245.70	
113	STATION CK	4481.70	S7		450.42	429.87	493.29	149.59	454.88	432.13	496.73	151.76	363.82	364.58	413.53	126.61	427.00	2213.85	375.33	350.51	
114	STATION CK	5140.80	S8		416.50	404.32	456.99	119.29	437.34	417.48	476.40	125.81	263.85	267.95	303.46	125.75	603.01	3388.05	519.35	463.06	
115	STATION CK	5918.90	S9		346.51	345.60	380.40	166.41	400.86	384.70	433.71	77.21	145.87	198.37	198.17	195.11	751.54	3991.89	624.21	597.47	
116	STATION CK	6575.50	S10		287.47	293.98	317.04	192.68	374.97	357.21	405.25	66.53	101.01	239.90	240.30	236.21	820.44	3864.09	662.84	695.42	
117	STATION CK	6954.40		O'L Station D/S	263.98	273.13	291.65	205.17	365.80	346.16	396.00	71.12	82.00	257.91	258.45	254.04	868.15	3797.54	687.33	721.52	
118	STATION CK	6954.40			264.50	273.55	292.15	215.40	366.07	346.36	396.20	76.28	88.19	259.53	260.08	255.67	981.69	6694.40	828.10	836.66	
119	STATION CK	7691.00	S11		238.13	249.58	281.95	238.20	356.30	333.50	387.01	84.87	97.76	292.60	292.11	288.70	1200.51	6937.99	998.44	964.83	
120	MACHINE CK	0.00	M1		217.66	222.06	241.97	100.04	217.66	222.06	241.97	100.04	217.66	222.06	241.97	100.04	218.00	223.40	242.00	100.70	
121	MACHINE CK	726.30	M2		217.19	220.83	240.90	99.46	217.19	220.83	240.90	99.46	217.19	220.83	240.90	99.46	217.19	221.06	240.92	99.50	
122	MACHINE CK	1186.80	M3		217.10	220.71	240.64	99.11	217.10	220.71	240.64	99.11	217.10	220.71	240.64	99.11	217.11	220.72	240.77	99.16	
123	MACHINE CK	1699.10	M4		216.76	219.68	240.02	98.66	216.76	219.68	240.02	98.66	216.76	219.68	240.02	98.66	216.77	219.70	240.09	98.67	
124	MACHINE CK	2214.80	M5		216.65	219.22	239.84	98.47	216.65	219.22	239.84	98.47	216.65	219.22	239.84	98.47	216.66	219.33	239.86	98.52	
125	MACHINE CK	2730.60	M6		216.63	219.20	239.72	98.49	216.63	219.20	239.72	98.49	216.63	219.20	239.72	98.49	216.63	219.20	239.78	98.49	
126	MACHINE CK	3140.90	M7		216.58	218.92	239.72	98.40	216.58	218.92	239.72	98.40	216.58	218.92	239.72	98.40	216.61	219.11	239.72	98.47	
127	MACHINE CK	3611.90	M8		216.52	218.78	239.53	98.04	216.52	218.78	239.53	98.04	216.52	218.78	239.53	98.04	216.52	218.79	239.57	98.13	
128	MACHINE CK	4246.80	M9	Road/Rail X-ing	216.14	217.77	238.58	97.03	216.14	217.77	238.58	97.01	216.10	217.73	238.56	97.08	216.55	217.84	238.52	97.13	
129	MACHINE CK	5099.90	M10		216.10	217.17	238.14	96.72	216.08	217.16	238.13	96.69	216.04	217.22	238.25	96.93	213.65	290.93	237.91	97.13	
130	MACHINE CK	5868.40	M11	Bruce H'way 100m U/S	212.55	213.79	235.15	94.23	213.21	214.23	235.48	94.49	203.33	205.75	230.56	91.38	182.00	532.93	216.28	80.98	
131	MACHINE CK	6711.00	M12		198.34	200.22	222.52	85.03	201.19	203.05	224.11	86.30	174.64	172.16	204.06	73.31	139.54	742.62	163.89	105.60	
132	OLSTATION	0.00			8.37	16.02	85.60	29.95	1.37	2.08	5.26	8.19	9.54	15.97	25.59	17.17	483.88	7162.50	509.62	243.53	
133	OLSTATION	304.10	O2-1		7.69	14.08	85.00	28.60	1.37	2.08	5.21	7.83	9.10	14.34	25.15	14.80	479.72	7154.29	506.10	240.56	
134	OLSTATION	1252.20	O2-2		7.06	11.63	84.17	27.29	1.37	2.07	5.17	7.31	8.86	11.59	20.49	12.16	471.23	7118.28	499.12	234.87	
135	OLSTATION	1924.60	O2-3		7.06	11.63	84.07	27.21	1.37	2.07	5.17	7.30	8.86	11.58	20.57	12.16	466.83	7107.48	495.26	232.67	

**BOYNE RIVER**  
**Dambreak and Flood Modelling Study**  
**Feature: 1 in 100 AEP Flood Model (Bridges Modelled)**  
**Maximum Discharge**

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr	
					Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)
136	O'NSTATION	2385.50			6.98	11.50	84.02	27.31	1.36	2.07	5.17	7.20	8.82	11.57	20.68	12.18	463.71	7099.74	492.56	231.24	
137	O'NSTATION	2588.00	O2-4	Bruce H'way	6.95	11.68	84.01	27.60	1.36	2.07	5.17	7.19	8.82	11.69	20.88	12.38	462.47	7093.55	491.48	230.73	
138	WURDONG CK	0.00	W1		88.03	88.84	108.12	203.67	88.03	88.84	108.12	203.67	88.03	88.84	108.12	203.67	88.19	89.26	109.20	203.70	
139	WURDONG CK	616.40	W2		88.00	88.27	107.12	203.57	88.00	88.27	107.12	203.57	88.00	88.27	107.12	203.57	88.03	88.29	107.12	203.57	
140	WURDONG CK	1311.60	W3		88.10	87.48	106.68	203.48	88.10	87.48	106.68	203.48	88.10	87.48	106.68	203.48	88.14	87.49	106.73	203.49	
141	WURDONG CK	1752.90	W4		87.08	86.79	103.04	203.51	87.08	86.80	103.05	203.51	87.07	86.78	103.04	203.51	87.06	86.71	103.14	203.51	
142	WURDONG CK	2482.50	W5	GLD/Benaraby Rd 100m D/S	86.83	86.21	100.27	203.09	86.82	86.21	100.26	203.08	86.89	86.36	100.31	203.30	87.65	87.44	100.78	204.09	
143	WURDONG CK	3446.50	W6		83.33	82.58	94.84	196.77	83.49	82.79	95.03	197.28	80.40	78.66	92.14	191.56	78.28	128.03	82.52	179.29	
144	WURDONG CK	4664.00	W7		76.46	75.17	85.90	183.47	77.06	76.00	86.77	185.09	67.17	65.33	75.62	167.88	186.79	269.86	142.25	163.25	
145	BOYNETRIB1	0.00	T2-1		3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
146	BOYNETRIB1	573.10	T2-2		4.86	4.86	7.55	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	3.50	3.50	3.50	3.50	
147	BOYNETRIB1	1368.30	T2-3		5.33	5.33	6.87	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.64	6.34	4.55	4.01	
148	BOYNETRIB1	1848.20	T2-4	Bruce H'way 75m D/S	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	17.47	18.72	13.57	11.99	
149	BOYNETRIB1	2194.80	T2-5		3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	30.90	76.17	24.35	23.06	
150	BOYNETRIB1	2663.00	T2-6		3.88	4.94	7.10	5.40	3.50	3.50	3.50	3.50	3.50	3.50	7.63	7.67	7.52	59.66	487.09	49.71	44.88
151	BOYNETRIB2	0.00	T3-1		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
152	BOYNETRIB2	381.20	T3-2		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
153	BOYNETRIB2	713.60	T3-3		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	3.41	8.52	3.16	2.82	
154	BOYNETRIB2	1247.10	T3-4		1.57	3.18	4.52	3.93	1.50	1.50	1.50	1.52	1.80	2.28	2.44	2.38	27.44	186.60	24.55	20.97	
155	BOYNETRIB2	1804.00	T3-5		2.43	6.51	10.67	8.59	1.50	1.50	1.55	2.24	2.94	4.23	4.74	4.58	71.32	644.79	64.57	76.99	
156	O'LANDBOYNE	0.00			374.73	573.70	843.70	720.92	112.07	198.93	303.36	407.52	470.55	577.59	663.31	618.09	1327.31	1493.52	1374.99	1138.32	
157	O'LANDBOYNE	462.10	O3-1		374.65	573.64	843.67	720.86	112.06	198.91	303.35	407.49	470.51	577.56	663.27	618.07	1326.85	1492.79	1374.67	1138.07	
158	O'LANDBOYNE	843.90	O3-2		374.52	573.51	843.60	720.76	112.03	198.86	303.34	407.45	470.45	577.53	663.21	618.05	1326.05	1491.43	1374.09	1137.67	
159	O'LANDBOYNE	1492.50	O3-3		374.24	573.26	843.45	720.57	111.97	198.76	303.30	407.36	470.34	577.46	663.10	618.02	1323.84	1487.42	1372.52	1136.64	
160	O'LANDBOYNE	1924.31		O'Land01 U/S	373.93	572.98	843.23	720.35	111.92	198.66	303.26	407.28	470.20	577.35	662.99	617.99	1321.29	1483.22	1371.54	1135.45	
161	O'LANDBOYNE	1924.31			369.92	517.53	612.39	584.99	111.90	198.56	303.02	400.92	458.98	519.81	558.30	532.47	705.42	741.95	696.88	664.38	
162	O'LANDBOYNE	2032.00	O3-4		369.84	517.40	611.86	584.87	111.89	198.55	303.01	400.91	458.95	519.76	558.31	532.50	700.15	734.42	691.91	660.75	
163	O'LAND01	0.00			5.90	55.45	233.50	135.39	0.56	1.35	4.55	7.34	13.58	57.56	104.99	85.90	682.55	862.57	762.65	503.68	
164	O'LAND01	415.30	O4-01		3.91	55.16	233.43	135.12	0.24	0.57	1.92	6.48	11.18	57.47	104.71	85.71	681.66	861.65	762.37	503.13	
165	O'LAND01	1018.80	O4-02		3.51	55.05	233.38	134.99	0.00	0.00	0.20	6.23	10.95	57.43	104.50	85.61	680.53	860.34	761.95	502.62	
166	O'LAND01	1360.20	O4-03		3.51	54.98	233.37	134.99	0.00	0.00	0.20	6.22	10.94	57.41	104.40	85.56	679.47	858.62	761.52	502.25	
167	O'LAND01	1988.30	O4-04		3.57	54.90	233.23	134.88	0.00	0.00	0.20	6.28	10.99	57.37	104.32	85.53	676.17	852.81	760.20	500.97	
168	O'LAND01	2586.50	O4-05		4.42	55.28	233.17	134.94	0.37	0.64	1.03	6.89	11.45	57.56	104.63	85.80	673.72	849.14	759.17	500.38	
169	O'LAND01	3091.00	O4-06		5.58	55.73	233.22	135.16	0.88	1.54	2.15	7.59	12.00	57.80	104.94	88.86	673.44	849.15	758.82	500.55	
170	CATTLE CK	0.00	CC1	Tannum Sands Rd 50m D/S	57.34	56.06	68.32	55.26	57.34	56.06	68.32	55.26	57.34	56.06	68.32	55.26	57.41	56.15	68.68	55.29	
171	CATTLE CK	743.60	CC2		55.01	54.67	67.38	54.13	55.01	54.67	67.38	54.13	55.01	54.67	67.38	54.12	55.02	54.71	67.39	54.18	
172	CATTLE CK	1293.10	CC3		53.66	53.69	63.98	52.00	53.66	53.70	63.98	52.00	53.64	53.63	63.98	51.98	53.57	53.48	63.99	51.97	
173	CATTLE CK	1994.43		O'Land01 D/S	51.64	51.50	60.89	49.30	51.74	51.60	60.98	49.38	50.90	50.93	60.37	48.94	90.38	87.64	82.75	78.13	
174	CATTLE CK	1994.43			49.01	58.70	234.29	139.68	49.27	48.71	58.22	46.23	47.13	59.32	112.48	112.73	685.46	856.84	776.37	511.13	
175	CATTLE CK	2124.80	CC4		48.50	59.04	234.39	142.65	48.79	48.15	57.68	45.62	46.41	59.49	114.39	114.63	686.91	857.57	776.76	511.52	
176	CATTLE CK	2335.00			47.66	59.47	234.50	146.01	48.01	47.29	56.79	44.61	45.24	59.70	116.66	116.88	688.68	858.48	777.24	512.02	
177	STH TREES	0.00	ST1	Sth Trees/BoyneR Bifurcate	747.26	1059.83	1388.05	1191.81	350.89	490.44	642.55	794.61	874.93	1068.81	1123.39	1120.05	2067.66	2243.30	2190.44	1858.57	
178	STH TREES	851.80	ST2		746.00	1059.74	1386.45	1190.57	350.83	490.15	642.42	793.82	874.73	1068.64	1117.99	1118.57	2072.09	2237.83	2201.72	1850.77	
179	STH TREES	1400.00			745.07	1059.73	1384.99	1189.69	350.77	489.91	642.31	793.30	874.57	1068.52	1117.82	1118.50	2141.73	2332.42	2237.99	1845.14	
180	STH TREES	1470.00			744.97	1059.65	1384.84	1189.60	350.77	489.89	642.30	793.26	874.52	1068.49	1117.53	1118.36	2155.75	2333.42	2253.29	1844.59	

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Discharge

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)	Max Discharge (m**3/s)
181	STH TREES	1579.60	ST3	Boyne Is Rd Bridge	744.81	1059.41	1384.61	1189.48	350.75	489.86	642.28	793.19	874.43	1068.42	1117.45	1118.01	2148.35	2330.88	2242.74	1843.80
182	STH TREES	2361.30	ST4		743.52	1057.15	1382.41	1188.45	350.60	489.61	642.13	792.72	873.59	1067.79	1116.74	1114.81	2092.32	2262.20	2176.24	1837.04
183	STH TREES	2829.50	ST5		742.60	1055.26	1380.59	1187.64	350.50	489.43	641.99	792.42	872.99	1067.25	1116.20	1112.06	2069.62	2237.87	2150.40	1831.63
184	STH TREES	3773.50	ST6		740.92	1051.59	1377.20	1186.16	350.33	489.12	641.82	791.92	871.86	1066.17	1115.34	1106.33	2036.36	2199.47	2139.33	1820.35
185	STH TREES	4171.60	ST7		740.39	1050.47	1376.18	1185.74	350.28	489.03	641.78	791.85	871.50	1065.81	1115.14	1104.36	2026.88	2190.32	2135.43	1816.76
186	STH TREES	4595.40	ST8		740.03	1049.68	1375.46	1185.49	350.25	488.96	641.68	791.82	871.24	1065.57	1115.03	1102.85	2019.22	2182.69	2132.48	1814.18
187	STH TREES	5122.39		Ten Mile Ck	739.76	1049.06	1374.88	1185.32	350.24	488.92	641.70	791.77	871.09	1065.37	1114.98	1101.61	2011.39	2174.98	2129.65	1811.97
188	STH TREES	5122.39			739.35	1048.14	1374.42	1189.05	350.21	488.89	641.91	793.59	870.85	1065.13	1117.12	1116.11	2000.38	2164.03	2168.86	1822.06
189	STH TREES	5493.40	ST9		739.27	1047.96	1374.23	1188.97	350.21	488.86	641.81	793.51	870.78	1065.07	1117.09	1115.79	1998.66	2161.65	2167.87	1821.42
190	STH TREES	6390.90	ST10		739.17	1047.73	1373.94	1188.86	350.22	488.83	641.74	793.47	870.72	1064.99	1117.06	1115.32	1996.61	2159.64	2166.61	1820.46
191	STH TREES	7658.80	ST11		738.84	1046.70	1372.66	1188.44	350.22	488.81	641.73	793.45	870.43	1064.64	1117.05	1113.29	1987.69	2149.07	2160.10	1815.75
192	STH TREES	8251.05		Eleven Mile Ck	738.64	1046.04	1371.81	1188.19	350.22	488.79	641.66	793.42	870.27	1064.40	1117.07	1111.85	1980.80	2140.88	2156.19	1812.53
193	STH TREES	8251.05			738.47	1045.10	1371.26	1190.55	350.33	488.89	641.84	794.69	870.11	1064.22	1142.80	1124.47	1969.34	2127.23	2218.03	1819.11
194	STH TREES	9287.10	ST12		738.39	1044.74	1370.63	1190.31	350.35	488.87	641.84	794.65	870.04	1064.08	1140.47	1123.42	1964.75	2121.19	2214.06	1816.62
195	STH TREES	11258.10	ST13		738.35	1044.42	1369.96	1190.08	350.36	488.89	641.81	794.62	869.99	1063.95	1137.98	1122.21	1959.02	2113.30	2209.19	1813.69
196	STH TREES	12688.10	ST14		738.38	1044.36	1369.78	1190.02	350.38	488.91	641.81	794.63	869.99	1063.92	1137.19	1121.82	1956.78	2110.06	2207.23	1812.60
197	STH TREES	14444.90	ST15		738.43	1044.38	1369.71	1190.01	350.40	488.93	641.83	794.65	870.01	1063.93	1137.14	1121.71	1955.40	2107.94	2205.98	1811.95
198	STH TREES	17478.00	ST16		738.51	1044.47	1369.76	1190.05	350.42	488.96	641.83	794.68	870.04	1063.96	1137.68	1122.02	1955.29	2107.65	2205.81	1811.95
199	TEN MILE CK	0.00	T4-1	GLD/Benaraby Boyne X-ing	102.49	103.34	121.23	87.80	102.49	103.34	121.23	87.80	102.49	103.34	121.23	87.80	102.50	103.40	122.10	88.48
200	TEN MILE CK	510.20	T4-2		102.16	103.02	120.95	87.99	102.16	103.02	120.95	87.99	102.16	103.02	120.95	87.99	102.26	103.02	121.15	88.00
201	TEN MILE CK	1040.50	T4-3		101.96	102.66	120.63	87.51	101.96	102.66	120.63	87.51	101.95	102.64	120.61	87.50	102.01	102.71	120.64	87.71
202	TEN MILE CK	1753.90	T4-4		100.77	101.42	119.15	86.82	100.81	101.45	119.18	86.83	100.63	101.26	118.95	86.73	100.25	100.89	118.88	86.56
203	TEN MILE CK	2298.00	T4-5		99.00	98.48	117.16	85.28	99.20	98.54	117.28	85.36	98.29	98.04	116.64	84.94	97.23	97.19	115.72	84.66
204	ELEVEN MILE CK	0.00	T5-1		148.51	150.25	163.00	72.66	148.51	150.25	163.00	72.66	148.51	150.25	163.00	72.66	148.60	150.30	163.19	73.12
205	ELEVEN MILE CK	883.90	T5-2	GLD/Benaraby Rd	147.32	150.13	162.31	72.02	147.32	150.13	162.31	72.02	147.32	150.13	162.31	72.02	147.39	150.20	162.31	72.04
206	ELEVEN MILE CK	1811.40	T5-3		146.35	149.34	161.38	72.19	146.37	149.35	161.40	72.19	146.27	149.28	161.32	72.18	146.18	149.16	161.21	71.92
207	ELEVEN MILE CK	3118.20	T5-4		143.72	146.20	159.88	72.46	143.79	146.24	159.95	72.46	143.32	145.93	159.56	72.38	142.86	145.54	158.94	71.46
208	ELEVEN MILE CK	3887.00			141.57	144.10	158.66	72.08	141.64	144.16	158.77	72.08	141.08	143.66	158.17	71.96	140.37	142.95	157.17	70.86
209	LITTLE OAKY CK	0.00	O1-1A		75.97	78.54	87.50	88.74	75.97	78.54	87.50	88.74	75.97	78.54	87.50	88.74	75.99	78.61	88.20	89.58
210	LITTLE OAKY CK	670.00	O1-2A		75.27	77.03	86.91	88.35	75.27	77.03	86.90	88.36	75.34	77.16	86.95	88.30	104.06	76.11	86.86	88.12
211	LITTLE OAKY CK	1834.00	O1-3A		57.83	56.26	80.35	59.44	59.61	62.39	70.00	60.97	34.36	34.99	45.87	38.62	361.67	260.54	231.41	249.15
212	LITTLE OAKY CK	1958.00			54.08	52.17	83.75	56.36	56.20	59.23	66.35	55.09	29.89	32.71	40.12	32.19	378.87	281.29	243.04	261.50

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Velocity

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)
1	BOYNE RIVER	0.00			1.62	1.77	1.84	1.80	1.18	1.34	1.48	1.55	1.66	1.72	1.73	1.69	2.10	2.14	2.07	2.03
2	BOYNE RIVER	817.70	B21.7	D/S Awoonga Dam	1.72	1.89	2.02	1.90	1.25	1.42	1.56	1.64	1.77	1.83	1.84	1.80	2.35	2.35	2.31	2.26
3	BOYNE RIVER	1383.80	B21.15		1.39	1.53	1.60	1.52	1.06	1.18	1.27	1.32	1.43	1.47	1.47	1.44	2.04	2.16	2.00	1.88
4	BOYNE RIVER	1985.90	B20.6		1.69	1.89	1.98	1.88	1.27	1.41	1.53	1.60	1.75	1.83	1.82	1.78	2.53	2.63	2.47	2.34
5	BOYNE RIVER	2182.33		Tucker Gully	1.51	1.59	1.57	1.51	1.17	1.31	1.40	1.41	1.50	1.52	1.49	1.48	1.96	2.05	1.91	1.82
6	BOYNE RIVER	2182.33			1.51	1.59	1.58	1.53	1.18	1.31	1.40	1.43	1.56	1.56	1.54	1.51	1.92	2.02	1.88	1.80
7	BOYNE RIVER	2462.80	B20.1		1.58	1.78	1.89	1.79	1.15	1.30	1.43	1.51	1.64	1.73	1.73	1.70	2.42	2.44	2.36	2.24
8	BOYNE RIVER	3120.26		Coomal Ck	0.94	1.03	1.07	1.03	0.72	0.82	0.86	0.90	0.96	1.00	1.00	0.98	1.28	1.30	1.26	1.21
9	BOYNE RIVER	3120.26			0.94	1.03	1.08	1.03	0.73	0.82	0.86	0.90	0.99	1.00	1.01	0.98	1.27	1.28	1.25	1.20
10	BOYNE RIVER	3313.40	B18.95	Pikes Crossing	0.96	1.03	1.07	1.02	0.72	0.80	0.87	0.92	0.97	1.00	1.00	0.98	1.31	1.31	1.28	1.22
11	BOYNE RIVER	3976.40	B18.3		1.50	1.53	1.57	1.51	1.26	1.42	1.42	1.39	1.70	1.70	1.68	1.55	1.90	1.90	1.87	1.78
12	BOYNE RIVER	4740.10	B17.6		1.91	2.12	2.29	2.15	1.43	1.59	1.72	1.82	1.97	2.06	2.07	2.01	2.96	3.10	2.89	2.70
13	BOYNE RIVER	5457.30	B17.0	Manns Weir 50m U/S	0.81	0.90	0.98	0.91	0.63	0.69	0.74	0.77	0.85	0.87	0.88	0.85	1.29	1.35	1.26	1.17
14	BOYNE RIVER	5457.30	B17.0	Little Oaky Ck	0.81	0.89	0.97	0.91	0.63	0.69	0.74	0.77	0.84	0.87	0.88	0.85	1.23	1.27	1.21	1.13
15	BOYNE RIVER	5934.10	B16.7		1.58	1.76	1.88	1.77	1.14	1.30	1.42	1.51	1.62	1.71	1.72	1.67	2.24	2.22	2.20	2.08
16	BOYNE RIVER	6676.80	B16.0	Yunka Ck	1.13	1.26	1.38	1.29	0.82	0.93	1.02	1.08	1.17	1.23	1.24	1.21	1.71	1.71	1.68	1.59
17	BOYNE RIVER	6676.80	B16.0		1.13	1.26	1.38	1.32	0.82	0.93	1.02	1.11	1.16	1.23	1.24	1.24	1.70	1.70	1.67	1.65
18	BOYNE RIVER	7293.40	B15.5		1.24	1.38	1.45	1.41	0.92	1.03	1.11	1.22	1.27	1.34	1.34	1.35	1.80	1.82	1.76	1.73
19	BOYNE RIVER	8050.70	B14.8	O'Land Station Ck Offtake	1.48	1.62	1.68	1.66	1.08	1.23	1.33	1.44	1.53	1.57	1.58	1.63	1.78	1.80	1.78	1.72
20	BOYNE RIVER	8050.70	B14.8	QR Railway Bridge	1.47	1.61	1.67	1.65	1.08	1.23	1.33	1.43	1.52	1.56	1.57	1.62	1.75	1.78	1.75	1.72
21	BOYNE RIVER	8522.40	B14.35		1.23	1.26	1.26	1.22	1.02	1.09	1.10	1.17	1.42	1.39	1.38	1.48	1.74	1.73	1.71	1.70
22	BOYNE RIVER	8856.20	B14.0		0.72	0.74	0.74	0.81	0.69	0.66	0.66	0.75	1.04	1.03	1.01	1.05	1.23	1.21	1.20	1.19
23	BOYNE RIVER	9247.40	B13.6		1.04	1.13	1.19	1.16	0.79	0.87	0.93	1.01	1.08	1.09	1.09	1.16	1.52	1.52	1.48	1.45
24	BOYNE RIVER	9679.30	B13.2		1.01	1.14	1.25	1.20	0.69	0.81	0.90	1.00	1.05	1.12	1.13	1.13	1.63	1.64	1.59	1.53
25	BOYNE RIVER	10080.40	B12.8		1.07	1.17	1.23	1.21	0.81	0.89	0.96	1.04	1.09	1.13	1.13	1.18	1.58	1.60	1.53	1.52
26	BOYNE RIVER	10362.80			1.03	1.13	1.20	1.17	0.75	0.85	0.92	1.00	1.05	1.10	1.10	1.13	1.58	1.60	1.54	1.53
27	BOYNE RIVER	10412.80	B12.5		1.04	1.14	1.21	1.18	0.76	0.86	0.93	1.01	1.05	1.11	1.11	1.14	1.55	1.57	1.51	1.48
28	BOYNE RIVER	10646.10	B12.2	Bruce Hwy Bridge	0.99	1.10	1.15	1.13	0.70	0.81	0.88	0.96	1.01	1.06	1.06	1.07	1.53	1.54	1.47	1.44
29	BOYNE RIVER	10832.90		Station Ck	1.19	1.33	1.41	1.38	0.84	0.97	1.06	1.16	1.22	1.29	1.29	1.30	1.94	1.98	1.84	1.78
30	BOYNE RIVER	10832.90			1.14	1.29	1.44	1.37	0.83	0.96	1.07	1.16	1.21	1.29	1.33	1.30	1.69	1.77	1.69	1.59
31	BOYNE RIVER	11254.50	B11.6		1.56	1.78	2.01	1.90	1.12	1.30	1.46	1.58	1.66	1.78	1.84	1.80	2.40	2.53	2.41	2.24
32	BOYNE RIVER	11848.60	B11.05	Boyne Trib2 &	1.54	1.77	2.00	1.89	1.08	1.27	1.44	1.57	1.65	1.76	1.83	1.79	2.40	2.53	2.41	2.24
33	BOYNE RIVER	11848.60	B11.05	O'L Boyne Offtake	1.33	1.47	1.62	1.54	1.00	1.14	1.25	1.34	1.39	1.47	1.50	1.48	1.88	1.97	1.88	1.77
34	BOYNE RIVER	12303.00			1.33	1.46	1.59	1.52	1.06	1.18	1.26	1.33	1.39	1.45	1.48	1.46	1.87	1.96	1.86	1.75
35	BOYNE RIVER	12303.00		Boyne Trib1	1.33	1.46	1.59	1.52	1.06	1.18	1.27	1.33	1.39	1.45	1.48	1.46	1.85	1.94	1.85	1.74
36	BOYNE RIVER	12455.40	B10.5		1.35	1.48	1.63	1.55	1.07	1.19	1.28	1.35	1.41	1.48	1.51	1.49	1.90	1.99	1.90	1.78
37	BOYNE RIVER	12785.40		Machine Ck	1.50	1.65	1.80	1.72	1.20	1.32	1.43	1.51	1.57	1.64	1.67	1.65	2.10	2.20	2.10	1.97
38	BOYNE RIVER	12785.40			1.50	1.65	1.81	1.72	1.19	1.32	1.43	1.51	1.56	1.64	1.70	1.65	2.08	2.17	2.09	1.97
39	BOYNE RIVER	12874.90	B10.2		1.54	1.69	1.85	1.76	1.23	1.36	1.46	1.55	1.60	1.68	1.74	1.69	2.13	2.22	2.14	2.02
40	BOYNE RIVER	13251.30	B9.8		1.09	1.19	1.29	1.24	0.85	0.96	1.04	1.10	1.14	1.19	1.22	1.19	1.47	1.53	1.48	1.40
41	BOYNE RIVER	13865.90	B9.1		1.54	1.73	1.92	1.82	1.12	1.30	1.45	1.56	1.63	1.73	1.79	1.74	2.25	2.36	2.26	2.12
42	BOYNE RIVER	14304.56		Wurdong Ck	1.09	1.22	1.36	1.28	0.80	0.92	1.02	1.10	1.15	1.22	1.26	1.22	1.58	1.66	1.59	1.49
43	BOYNE RIVER	14304.56			1.08	1.21	1.35	1.29	0.80	0.92	1.02	1.11	1.14	1.22	1.26	1.24	1.56	1.62	1.58	1.49
44	BOYNE RIVER	14472.20	B8.5		0.95	1.07	1.19	1.14	0.71	0.81	0.90	0.97	1.01	1.07	1.11	1.09	1.38	1.43	1.40	1.32
45	BOYNE RIVER	14964.20	B8.0		1.10	1.22	1.31	1.28	0.83	0.95	1.04	1.12	1.15	1.22	1.26	1.25	1.43	1.47	1.44	1.39

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Velocity

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)
46	BOYNE RIVER	15341.20	B7.55		1.48	1.63	1.78	1.71	1.10	1.27	1.40	1.50	1.54	1.63	1.68	1.66	2.01	2.08	2.04	1.94
47	BOYNE RIVER	15741.50	B7.2		1.16	1.28	1.39	1.33	0.92	1.03	1.11	1.18	1.21	1.28	1.31	1.30	1.59	1.65	1.61	1.53
48	BOYNE RIVER	16062.90		O'L Boyne D/S	0.87	0.92	0.97	0.95	0.73	0.80	0.84	0.88	0.89	0.92	0.94	0.94	1.08	1.10	1.08	1.05
49	BOYNE RIVER	16062.90			1.01	1.09	1.14	1.11	0.80	0.90	0.97	1.03	1.06	1.09	1.11	1.10	1.23	1.26	1.23	1.20
50	BOYNE RIVER	16145.40	B6.8		0.91	1.00	1.07	1.03	0.69	0.79	0.86	0.93	0.96	1.00	1.02	1.01	1.15	1.18	1.15	1.13
51	BOYNE RIVER	16727.90	B6.2		1.40	1.57	1.70	1.64	1.00	1.17	1.31	1.43	1.49	1.57	1.61	1.60	1.88	1.93	1.89	1.82
52	BOYNE RIVER	17358.60	B5.55		1.46	1.66	1.80	1.74	1.01	1.20	1.37	1.50	1.56	1.66	1.70	1.69	1.98	2.03	1.99	1.92
53	BOYNE RIVER	17722.19		South Trees	2.12	2.47	2.76	2.63	1.37	1.68	1.96	2.19	2.30	2.48	2.56	2.53	3.15	3.25	3.16	3.02
54	BOYNE RIVER	17722.19			1.52	1.70	1.86	1.82	1.02	1.24	1.42	1.56	1.63	1.70	1.79	1.75	1.98	1.99	1.96	1.93
55	BOYNE RIVER	17874.50			1.70	1.91	2.10	2.05	1.12	1.37	1.58	1.75	1.83	1.91	2.01	1.97	2.24	2.26	2.22	2.18
56	BOYNE RIVER	18184.66		Cattle Ck	1.53	1.72	1.87	1.83	1.02	1.25	1.44	1.58	1.65	1.72	1.81	1.77	2.00	2.00	1.98	1.95
57	BOYNE RIVER	18184.66			1.54	1.75	2.01	1.92	1.02	1.25	1.44	1.59	1.66	1.76	1.87	1.83	2.28	2.36	2.31	2.18
58	BOYNE RIVER	18476.20	B4.5		1.39	1.57	1.76	1.71	0.96	1.15	1.31	1.43	1.49	1.57	1.66	1.63	1.96	2.01	1.98	1.89
59	BOYNE RIVER	18884.20	B4.05		1.47	1.69	1.90	1.84	0.97	1.19	1.37	1.52	1.59	1.69	1.80	1.77	2.11	2.17	2.13	2.03
60	BOYNE RIVER	19282.40	B3.65		1.01	1.11	1.22	1.19	0.70	0.84	0.96	1.04	1.07	1.11	1.16	1.15	1.34	1.36	1.35	1.30
61	BOYNE RIVER	19869.50	B3.15		1.13	1.25	1.39	1.35	0.78	0.95	1.07	1.16	1.20	1.25	1.32	1.30	1.48	1.49	1.48	1.47
62	BOYNE RIVER	20263.70	B2.75		1.43	1.56	1.69	1.65	0.92	1.15	1.34	1.46	1.51	1.56	1.62	1.60	1.83	1.86	1.85	1.78
63	BOYNE RIVER	20684.60	B2.45		1.30	1.49	1.57	1.56	0.83	1.03	1.21	1.34	1.41	1.49	1.56	1.56	1.58	1.59	1.58	1.58
64	BOYNE RIVER	20866.30	B2.25		1.20	1.29	1.37	1.35	0.78	0.98	1.15	1.23	1.26	1.29	1.33	1.32	1.44	1.45	1.45	1.42
65	BOYNE RIVER	21269.40	B1.85	John Oxley Bridge	1.31	1.51	1.66	1.61	0.80	1.02	1.21	1.36	1.43	1.51	1.58	1.56	1.79	1.82	1.80	1.75
66	BOYNE RIVER	21471.70	B1.65		1.63	1.97	2.37	2.25	0.95	1.23	1.49	1.71	1.82	1.98	2.16	2.10	2.78	2.90	2.84	2.62
67	BOYNE RIVER	21861.20	B1.2		1.06	1.25	1.45	1.38	0.65	0.82	0.98	1.11	1.17	1.25	1.34	1.31	1.70	1.78	1.74	1.61
68	BOYNE RIVER	22251.30	B0.9		1.04	1.24	1.46	1.39	0.61	0.79	0.95	1.09	1.15	1.24	1.34	1.31	1.65	1.71	1.68	1.58
69	BOYNE RIVER	22636.00	B0.5		1.58	1.98	2.52	2.34	0.86	1.13	1.41	1.67	1.80	1.99	2.22	2.14	3.23	3.46	3.34	2.96
70	COOMAL CK	0.00	C1		1.79	1.80	1.79	1.71	1.79	1.80	1.79	1.71	1.79	1.80	1.79	1.71	1.79	1.80	1.80	1.71
71	COOMAL CK	398.20	C2		1.91	1.94	1.95	1.68	1.91	1.94	2.92	1.68	1.91	1.94	1.95	1.68	1.91	1.94	1.95	1.68
72	COOMAL CK	794.20	C3		1.59	1.61	1.77	1.43	2.07	1.61	3.19	3.80	1.59	1.87	2.32	1.50	1.59	1.61	1.61	1.43
73	COOMAL CK	1209.50	C4		1.64	1.61	4.61	1.40	3.54	1.61	2.84	1.40	4.90	2.96	5.78	3.68	1.59	1.62	1.62	1.40
74	COOMAL CK	1813.30	C5		2.06	2.32	8.82	3.20	3.34	1.98	5.18	4.05	3.22	2.00	2.83	3.39	1.94	1.97	2.01	1.77
75	COOMAL CK	2352.80	C6		1.18	1.19	1.20	2.80	1.78	1.46	3.18	3.85	3.17	1.47	1.19	1.39	1.29	1.28	1.30	1.11
76	COOMAL CK	3112.20	C7		1.99	2.01	2.05	1.79	3.84	2.02	2.06	1.79	2.21	2.23	2.27	1.98	2.00	1.99	2.17	1.98
77	COOMAL CK	3751.30	C8		1.10	1.11	1.13	0.98	1.08	1.08	1.12	0.98	0.96	0.95	1.02	0.94	0.78	0.79	0.79	0.77
78	COOMAL CK	4222.50	C9		2.43	2.55	2.43	2.39	2.54	2.56	2.52	2.45	2.14	2.51	2.38	1.99	1.57	1.58	1.56	1.56
79	COOMAL CK	4305.00			24.68	23.90	23.23	22.29	32.96	30.40	30.80	26.45	9.12	22.60	16.05	10.31	4.67	4.37	3.45	4.72
80	YUNKA CK	0.00	Y1		1.33	1.33	1.46	2.44	1.33	1.33	1.46	2.44	1.33	1.33	1.46	2.44	1.33	1.33	1.47	2.44
81	YUNKA CK	574.20	Y2		1.65	1.63	1.72	2.55	1.65	1.63	1.72	2.55	1.65	1.63	1.72	2.55	1.65	1.63	1.73	2.55
82	YUNKA CK	948.90	Y3		1.06	1.05	1.16	1.91	1.06	1.05	1.16	1.91	1.06	1.05	1.16	1.91	1.06	1.05	1.16	1.91
83	YUNKA CK	1253.10	Y4		5.04	6.32	7.64	4.86	1.36	3.02	4.41	4.52	5.43	6.80	7.23	6.13	1.35	1.33	1.45	2.55
84	YUNKA CK	1835.50	Y5		1.10	1.09	1.18	2.44	1.09	1.09	1.18	2.43	1.19	1.19	1.21	2.61	1.25	1.25	1.31	2.58
85	YUNKA CK	2434.60	Y6		1.27	1.24	1.37	2.53	1.28	1.25	1.38	2.55	1.20	1.18	1.28	2.34	1.07	1.07	1.09	2.08
86	YUNKA CK	2763.00	Y7		32.04	28.55	30.56	63.79	37.70	32.29	34.10	69.59	21.41	17.87	19.77	42.78	16.05	15.08	14.72	34.07
87	TUCKER GULLY	0.00			0.86	0.83	0.81	0.78	0.86	0.83	0.81	0.78	0.86	0.83	0.81	0.78	0.86	0.84	0.82	0.79
88	TUCKER GULLY	1066.80	TU-1		2.14	2.13	2.14	2.14	2.14	2.13	2.14	2.14	2.14	2.13	2.14	2.13	2.14	2.14	2.16	2.14
89	TUCKER GULLY	1965.80	TU-2		1.84	1.84	1.88	1.81	1.84	1.84	1.88	1.81	1.84	1.84	1.88	1.81	1.84	1.84	1.88	1.81
90	TUCKER GULLY	2491.10	TU-3		2.30	2.30	2.36	2.25	2.30	2.30	2.36	2.25	2.30	2.30	2.36	2.25	2.30	2.30	2.36	2.25



# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Velocity

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)
91	TUCKER GULLY	3217.50	TU-4		2.05	2.05	2.09	2.02	2.05	2.05	2.09	2.02	2.05	2.05	2.09	2.02	2.05	2.05	2.09	2.03
92	TUCKER GULLY	3966.50	TU-5		1.69	1.67	1.70	1.64	1.69	1.67	1.70	1.64	1.69	1.67	1.70	1.64	1.72	1.70	1.70	1.67
93	TUCKER GULLY	4522.10	TU-6		1.83	1.84	1.89	1.89	1.83	1.84	1.89	1.79	1.84	1.84	1.89	1.87	2.16	2.16	2.21	2.09
94	TUCKER GULLY	5384.20	TU-7	Awoonga Dam Road X-ing	2.45	2.46	2.48	2.42	2.43	2.42	2.45	2.41	2.54	2.54	2.60	2.54	2.66	2.65	2.66	2.64
95	TUCKER GULLY	5765.40		Tucker Trib	2.77	2.76	2.81	2.77	2.79	2.79	2.84	2.78	2.27	2.29	2.43	2.40	0.82	0.93	1.29	1.42
96	TUCKER GULLY	5765.40			2.78	2.77	2.82	2.78	2.80	2.80	2.85	2.79	2.26	2.28	3.44	3.44	0.79	0.90	1.26	1.40
97	TUCKER GULLY	6350.10	TU-8		1.16	1.14	1.20	1.14	1.39	1.36	1.48	1.30	0.45	0.46	0.54	0.52	0.18	0.18	0.20	0.22
98	TUCKER GULLY	6669.00	TU-9		4.58	4.54	4.67	4.81	6.28	6.10	6.23	5.61	1.03	1.07	1.27	1.27	0.35	0.35	0.40	0.46
99	TUCKER TRIB	0.00			0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
100	TUCKER TRIB	206.20	T1-1		0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
101	TUCKER TRIB	730.40	T1-2		0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.50	0.45	0.45
102	TUCKER TRIB	1416.70	T1-3		0.59	0.59	0.63	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.67	0.67	0.67	0.65
103	TUCKER TRIB	1944.80	T1-4		0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
104	TUCKER TRIB	2331.50	T1-5		0.65	0.65	0.65	0.65	0.51	0.56	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
105	TUCKER TRIB	2914.70	T1-6	Awoonga Dam Road X-ing	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
106	TUCKER TRIB	3377.00			6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	8.36	8.36	6.06	6.06	6.06	6.06
107	STATION CK	0.00	S1		0.94	0.86	0.93	1.00	0.94	0.86	0.93	1.00	0.94	0.86	0.93	1.00	0.96	0.88	0.98	1.01
108	STATION CK	684.50	S2		1.13	1.12	1.14	1.06	1.13	1.12	1.14	1.06	1.13	1.12	1.14	1.06	1.20	1.17	1.16	1.18
109	STATION CK	1599.70	S3		1.16	1.12	1.06	1.23	1.16	1.05	1.06	1.15	1.16	1.19	1.12	1.24	1.25	1.22	1.19	1.20
110	STATION CK	2431.30	S4		1.01	0.97	1.01	0.94	0.98	0.97	1.01	1.04	0.98	0.97	1.01	1.13	1.01	1.00	1.01	0.98
111	STATION CK	3013.70	S5		0.79	0.78	0.80	0.63	0.79	0.78	0.80	0.63	0.79	0.78	0.80	0.63	0.80	0.79	0.81	0.63
112	STATION CK	3734.90	S6	Bruce H'way	1.05	0.95	1.00	0.83	1.05	0.95	1.00	0.83	1.06	0.95	1.01	0.84	1.10	1.08	1.10	0.87
113	STATION CK	4481.70	S7		1.09	1.09	1.11	0.89	1.09	1.09	1.11	0.89	1.09	1.08	1.11	0.85	1.06	1.06	1.09	0.66
114	STATION CK	5140.80	S8		0.58	0.58	0.60	0.27	0.58	0.58	0.60	0.29	0.43	0.43	0.50	0.19	0.26	0.43	0.30	0.07
115	STATION CK	5918.90	S9		0.48	0.48	0.49	0.13	0.51	0.50	0.51	0.16	0.24	0.25	0.30	0.08	0.11	0.61	0.10	0.09
116	STATION CK	6575.50	S10		0.42	0.42	0.42	0.06	0.47	0.47	0.48	0.07	0.04	0.13	0.13	0.13	0.19	0.89	0.17	0.15
117	STATION CK	6954.40		O'L Station D/S	0.41	0.42	0.42	0.08	0.49	0.50	0.50	0.08	0.04	0.16	0.18	0.17	0.23	0.97	0.21	0.19
118	STATION CK	6954.40			0.41	0.42	0.42	0.08	0.49	0.50	0.50	0.08	0.04	0.16	0.18	0.17	0.24	1.17	0.21	0.20
119	STATION CK	7691.00	S11		0.72	0.75	0.74	0.16	1.03	1.04	1.12	0.18	0.08	0.32	0.48	0.47	0.45	2.61	0.43	0.39
120	MACHINE CK	0.00	M1		1.09	1.09	1.11	0.98	1.09	1.09	1.11	0.98	1.09	1.09	1.11	0.98	1.27	1.13	1.12	1.00
121	MACHINE CK	726.30	M2		1.14	1.15	1.18	0.96	1.14	1.15	1.18	0.96	1.14	1.15	1.18	0.96	1.15	1.15	1.18	0.99
122	MACHINE CK	1186.80	M3		1.55	1.55	1.57	1.27	1.55	1.55	1.57	1.27	1.55	1.55	1.57	1.27	1.55	1.55	1.57	1.27
123	MACHINE CK	1699.10	M4		0.91	0.92	0.95	0.64	0.91	0.92	0.95	0.64	0.91	0.92	0.95	0.64	0.91	0.92	0.95	0.64
124	MACHINE CK	2214.80	M5		2.26	2.26	2.28	2.04	2.26	2.26	2.28	2.04	2.26	2.26	2.28	2.04	2.26	2.26	2.28	2.06
125	MACHINE CK	2730.60	M6		1.51	1.45	1.47	1.42	1.51	1.45	1.47	1.42	1.51	1.45	1.47	1.42	1.55	1.54	1.53	1.43
126	MACHINE CK	3140.90	M7		1.84	1.84	1.84	1.83	1.84	1.84	1.84	1.83	1.84	1.84	1.84	1.77	1.85	1.91	1.86	1.81
127	MACHINE CK	3611.90	M8		1.04	1.04	1.08	0.84	1.04	1.04	1.08	0.84	1.04	1.04	1.08	0.84	1.04	1.04	1.08	0.90
128	MACHINE CK	4246.80	M9	Road/Rail X-ing	2.73	2.76	1.73	2.85	2.14	12.89	16.73	9.37	2.81	2.55	1.80	2.87	1.87	1.86	1.86	2.44
129	MACHINE CK	5099.90	M10		2.25	2.24	2.28	2.09	2.25	2.24	2.28	2.08	2.28	2.27	2.30	2.16	2.28	2.29	2.32	2.16
130	MACHINE CK	5868.40	M11	Bruce H'way 100m U/S	0.93	0.89	0.93	0.71	0.94	0.89	0.93	0.72	0.92	0.88	0.91	0.69	0.90	0.89	0.89	0.62
131	MACHINE CK	6711.00	M12		1.29	1.25	1.41	0.58	1.32	1.28	1.43	0.59	1.15	1.12	1.27	0.48	0.88	0.88	0.99	0.24
132	OLSTATION	0.00			1.32	1.32	1.32	1.32	1.07	1.22	1.23	1.26	1.48	1.45	1.45	1.55	1.76	1.75	1.74	1.73
133	OLSTATION	304.10	O2-1		1.53	1.53	1.54	1.54	1.14	1.31	1.41	1.47	1.73	1.69	1.66	1.85	2.25	2.21	2.20	2.18
134	OLSTATION	1252.20	O2-2		1.86	2.42	5.40	5.02	0.73	0.83	1.51	1.86	2.07	2.39	3.99	2.43	4.27	3.34	4.58	5.24
135	OLSTATION	1924.60	O2-3		1.70	2.33	2.46	2.44	0.61	0.69	1.33	1.69	1.92	2.29	2.30	2.33	3.26	3.21	3.15	3.23

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Velocity

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)
136	O'NSTATION	2385.50			1.91	1.90	1.93	1.81	0.91	1.03	1.64	1.79	1.87	1.87	1.84	2.11	2.70	4.36	2.60	2.70
137	O'NSTATION	2588.00	O2-4	Bruce H'way	2.34	2.31	2.36	2.16	0.93	1.06	2.09	2.13	2.13	2.15	2.09	2.40	3.35	584.52	3.13	3.36
138	WURDONG CK	0.00	W1		1.02	0.96	0.98	1.22	1.02	0.96	0.98	1.22	1.02	0.96	0.98	1.22	1.08	1.06	0.99	1.22
139	WURDONG CK	616.40	W2		0.91	0.90	0.98	1.20	0.91	0.90	0.98	1.20	0.91	0.90	0.98	1.20	0.91	0.91	0.98	1.20
140	WURDONG CK	1311.60	W3		0.91	0.91	0.95	1.22	0.91	0.91	0.95	1.22	0.91	0.91	0.95	1.22	0.91	0.91	0.96	1.22
141	WURDONG CK	1752.90	W4		0.76	1.00	2.46	1.05	0.76	0.76	0.84	1.05	0.76	1.30	1.91	1.05	0.76	0.76	1.00	1.05
142	WURDONG CK	2482.50	W5	GLD/Benaraby Rd 100m D/S	3.40	0.71	0.75	0.99	3.19	3.36	2.52	1.66	0.71	0.72	0.75	1.00	0.76	0.76	0.76	1.02
143	WURDONG CK	3446.50	W6		0.36	0.36	0.36	0.46	0.37	0.36	0.36	0.46	0.36	0.36	0.36	0.46	0.36	0.35	0.35	0.45
144	WURDONG CK	4664.00	W7		0.81	0.79	0.88	1.85	0.82	0.80	0.90	1.87	0.71	0.69	0.77	1.68	0.54	0.54	0.59	1.36
145	BOYNETRIB1	0.00	T2-1		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
146	BOYNETRIB1	573.10	T2-2		1.02	1.02	1.58	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	0.51	0.51	0.51	0.51
147	BOYNETRIB1	1368.30	T2-3		0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.12	0.12	0.12	0.12
148	BOYNETRIB1	1848.20	T2-4	Bruce H'way 75m D/S	0.34	0.35	0.44	0.44	0.34	0.34	0.34	0.34	0.34	0.40	0.44	0.43	0.45	0.51	0.45	0.45
149	BOYNETRIB1	2194.80	T2-5		1.36	1.36	1.36	1.36	1.25	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
150	BOYNETRIB1	2663.00	T2-6		2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
151	BOYNETRIB2	0.00	T3-1		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
152	BOYNETRIB2	381.20	T3-2		0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
153	BOYNETRIB2	713.60	T3-3		0.63	0.64	0.64	0.64	0.37	0.45	0.57	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
154	BOYNETRIB2	1247.10	T3-4		0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
155	BOYNETRIB2	1804.00	T3-5		1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.60	1.33	1.33
156	O'LANDBOYNE	0.00			1.22	1.39	1.53	1.47	0.79	0.96	1.13	1.25	1.31	1.39	1.44	1.41	1.76	1.84	1.78	1.68
157	O'LANDBOYNE	462.10	O3-1		1.94	2.15	2.34	2.24	1.56	1.71	1.84	1.96	2.04	2.15	2.20	2.16	2.60	2.68	2.60	2.50
158	O'LANDBOYNE	843.90	O3-2		0.70	0.87	1.06	0.97	0.37	0.50	0.63	0.73	0.78	0.87	0.93	0.89	1.35	1.44	1.37	1.24
159	O'LANDBOYNE	1492.50	O3-3		1.15	1.44	1.75	1.61	0.60	0.82	1.03	1.19	1.29	1.44	1.54	1.47	2.12	2.24	2.12	1.96
160	O'LANDBOYNE	1924.31		O'Land01 U/S	0.45	0.47	0.51	0.49	0.39	0.42	0.43	0.44	0.49	0.48	0.49	0.47	0.61	0.64	0.61	0.57
161	O'LANDBOYNE	1924.31			0.45	0.45	0.45	0.43	0.39	0.42	0.43	0.43	0.46	0.45	0.46	0.44	0.52	0.52	0.51	0.48
162	O'LANDBOYNE	2032.00	O3-4		0.65	0.67	0.66	0.63	0.40	0.53	0.62	0.63	0.65	0.65	0.65	0.64	0.74	0.73	0.73	0.70
163	O'LAND01	0.00			0.13	0.14	0.29	0.20	0.10	0.09	0.10	0.10	0.33	0.31	0.32	0.29	0.54	0.61	0.57	0.46
164	O'LAND01	415.30	O4-01		0.06	0.12	0.29	0.20	0.05	0.04	0.05	0.05	0.18	0.18	0.18	0.16	0.57	0.64	0.60	0.48
165	O'LAND01	1018.80	O4-02		0.39	0.69	0.81	0.71	0.00	0.00	0.09	0.46	0.55	0.69	0.70	0.69	1.00	1.02	1.01	0.94
166	O'LAND01	1360.20	O4-03		0.36	0.79	0.81	0.77	0.00	0.00	0.05	0.49	0.67	0.78	0.76	0.74	1.13	1.10	1.10	1.04
167	O'LAND01	1988.30	O4-04		0.04	0.26	0.41	0.41	0.00	0.00	0.01	0.05	0.07	0.27	0.38	0.33	0.50	0.53	0.51	0.47
168	O'LAND01	2586.50	O4-05		0.01	0.07	0.21	0.13	0.00	0.00	0.00	0.01	0.02	0.07	0.11	0.10	0.36	0.39	0.38	0.31
169	O'LAND01	3091.00	O4-06		0.01	0.10	0.34	0.21	0.00	0.01	0.01	0.02	0.03	0.11	0.17	0.16	0.74	0.86	0.80	0.60
170	CATTLE CK	0.00	CC1	Tannum Sands Rd 50m D/S	0.31	0.31	0.34	0.31	0.31	0.31	0.34	0.31	0.31	0.31	0.34	0.31	0.31	0.31	0.34	0.31
171	CATTLE CK	743.60	CC2		0.87	0.86	0.91	0.87	0.87	0.86	0.91	0.90	0.87	0.87	0.91	0.86	0.87	0.89	0.91	0.86
172	CATTLE CK	1293.10	CC3		0.77	0.77	0.88	0.76	0.77	0.77	0.88	0.76	0.77	0.77	0.87	0.76	0.77	0.77	0.87	0.76
173	CATTLE CK	1994.43		O'Land01 D/S	0.18	0.17	0.20	0.17	0.18	0.17	0.21	0.17	0.17	0.17	0.20	0.17	0.16	0.16	0.19	0.16
174	CATTLE CK	1994.43			0.17	0.16	0.19	0.16	0.17	0.16	0.19	0.16	0.16	0.15	0.19	0.15	0.25	0.29	0.27	0.21
175	CATTLE CK	2124.80	CC4		0.21	0.21	0.25	0.20	0.21	0.21	0.25	0.20	0.20	0.20	0.24	0.19	0.48	0.57	0.53	0.38
176	CATTLE CK	2335.00			0.21	0.21	0.25	0.20	0.21	0.21	0.25	0.20	0.20	0.19	0.24	0.19	0.48	0.57	0.53	0.39
177	STH TREES	0.00	ST1	Sth Trees/BoyneR Bifurcate	1.46	1.65	1.71	1.70	1.19	1.38	1.41	1.47	1.49	1.66	1.70	1.69	1.75	1.75	1.74	1.73
178	STH TREES	851.80	ST2		0.73	0.74	0.74	0.71	0.51	0.63	0.71	0.72	0.75	0.75	0.75	0.74	0.81	0.81	0.81	0.80
179	STH TREES	1400.00			0.80	0.83	0.86	0.86	0.62	0.72	0.77	0.80	0.82	0.83	0.85	0.85	0.90	0.89	0.90	0.89
180	STH TREES	1470.00			0.91	1.07	1.11	1.10	0.64	0.76	0.86	0.93	0.97	1.07	1.10	1.10	1.21	1.20	1.20	1.19

# BOYNE RIVER

## Dambreak and Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model (Bridges Modelled)

#### Maximum Velocity

No	River/Branch Name	Cross Section Distance	Cross Section ID	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL 30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)	Max Velocity (m/s)
181	STH TREES	1579.60	ST3	Boyne Is Rd Bridge	0.89	1.07	1.20	1.14	0.59	0.72	0.83	0.92	0.96	1.07	1.11	1.11	1.32	1.24	1.31	1.28
182	STH TREES	2361.30	ST4		0.62	0.72	0.73	0.70	0.36	0.47	0.56	0.64	0.68	0.71	0.69	0.68	0.82	0.81	0.82	0.81
183	STH TREES	2829.50	ST5		0.39	0.46	0.51	0.47	0.26	0.32	0.37	0.40	0.42	0.46	0.47	0.47	0.59	0.59	0.58	0.56
184	STH TREES	3773.50	ST6		0.41	0.45	0.47	0.45	0.31	0.37	0.40	0.41	0.43	0.44	0.45	0.45	0.53	0.54	0.53	0.51
185	STH TREES	4171.60	ST7		0.39	0.45	0.49	0.47	0.25	0.31	0.36	0.40	0.41	0.45	0.45	0.45	0.56	0.57	0.56	0.53
186	STH TREES	4595.40	ST8		0.55	0.65	0.73	0.69	0.33	0.42	0.50	0.57	0.60	0.66	0.67	0.67	0.83	0.85	0.84	0.80
187	STH TREES	5122.39		Ten Mile Ck	0.46	0.57	0.65	0.60	0.26	0.34	0.41	0.48	0.51	0.57	0.58	0.58	0.77	0.80	0.78	0.73
188	STH TREES	5122.39			0.46	0.57	0.64	0.60	0.26	0.34	0.41	0.48	0.51	0.57	0.58	0.58	0.76	0.79	0.79	0.73
189	STH TREES	5493.40	ST9		0.49	0.60	0.68	0.64	0.28	0.37	0.45	0.51	0.54	0.60	0.62	0.62	0.81	0.84	0.84	0.78
190	STH TREES	6390.90	ST10		1.43	1.86	2.23	2.03	0.74	1.00	1.27	1.51	1.62	1.88	1.94	1.94	2.79	2.88	2.86	2.64
191	STH TREES	7658.80	ST11		0.18	0.24	0.29	0.26	0.09	0.12	0.15	0.19	0.20	0.24	0.25	0.25	0.37	0.39	0.39	0.35
192	STH TREES	8251.05		Eleven Mile Ck	0.19	0.26	0.33	0.29	0.10	0.13	0.17	0.21	0.22	0.27	0.28	0.28	0.43	0.45	0.44	0.40
193	STH TREES	8251.05			0.19	0.26	0.33	0.29	0.10	0.13	0.17	0.21	0.22	0.27	0.28	0.28	0.42	0.44	0.45	0.40
194	STH TREES	9287.10	ST12		0.23	0.31	0.39	0.35	0.11	0.15	0.20	0.24	0.26	0.32	0.33	0.33	0.51	0.54	0.55	0.48
195	STH TREES	11258.10	ST13		0.19	0.26	0.33	0.29	0.09	0.13	0.16	0.20	0.22	0.26	0.28	0.28	0.44	0.47	0.48	0.42
196	STH TREES	12688.10	ST14		0.17	0.24	0.31	0.27	0.08	0.12	0.15	0.19	0.20	0.24	0.26	0.26	0.42	0.45	0.46	0.39
197	STH TREES	14444.90	ST15		0.09	0.13	0.17	0.15	0.04	0.06	0.08	0.10	0.11	0.13	0.14	0.14	0.23	0.25	0.26	0.22
198	STH TREES	17478.00	ST16		0.14	0.19	0.25	0.22	0.07	0.09	0.12	0.15	0.16	0.20	0.21	0.21	0.36	0.39	0.41	0.34
199	TEN MILE CK	0.00	T4-1	GLD/Benaraby Boyne X-ing	1.12	1.12	1.15	1.08	1.12	1.12	1.15	1.08	1.12	1.12	1.15	1.08	1.17	1.16	1.43	1.08
200	TEN MILE CK	510.20	T4-2		2.72	2.68	1.89	3.16	2.93	2.68	2.39	3.16	2.72	2.68	1.89	3.16	1.78	1.78	1.89	1.68
201	TEN MILE CK	1040.50	T4-3		0.36	0.36	0.40	0.32	0.36	0.36	0.40	0.32	0.36	0.36	0.40	0.32	0.35	0.36	0.40	0.32
202	TEN MILE CK	1753.90	T4-4		0.20	0.20	0.24	0.18	0.20	0.20	0.24	0.18	0.20	0.20	0.24	0.18	0.20	0.20	0.24	0.18
203	TEN MILE CK	2298.00	T4-5		0.11	0.10	0.12	0.09	0.11	0.10	0.12	0.09	0.11	0.10	0.12	0.09	0.10	0.10	0.12	0.09
204	ELEVEN MILE CK	0.00	T5-1		0.96	0.97	1.04	0.77	0.96	0.97	1.04	0.77	0.96	0.97	1.04	0.77	0.96	0.98	1.04	0.77
205	ELEVEN MILE CK	883.90	T5-2	GLD/Benaraby Rd	4.92	3.50	3.57	4.44	5.89	5.44	4.53	4.53	3.79	3.50	3.57	3.52	3.49	3.50	3.57	3.03
206	ELEVEN MILE CK	1811.40	T5-3		0.23	0.23	0.25	0.12	0.23	0.23	0.25	0.12	0.23	0.23	0.25	0.12	0.23	0.23	0.25	0.11
207	ELEVEN MILE CK	3118.20	T5-4		0.09	0.09	0.10	0.04	0.09	0.09	0.10	0.04	0.09	0.09	0.10	0.04	0.09	0.09	0.09	0.04
208	ELEVEN MILE CK	3887.00			0.09	0.09	0.10	0.04	0.09	0.09	0.10	0.04	0.08	0.09	0.09	0.04	0.08	0.09	0.09	0.04
209	LITTLE OAKY CK	0.00	O1-1A		1.38	1.31	2.01	1.85	1.38	1.31	1.21	1.34	1.38	1.51	1.95	1.87	2.02	2.21	2.17	2.22
210	LITTLE OAKY CK	670.00	O1-2A		1.88	1.90	1.96	1.98	9.65	1.90	1.96	1.98	1.92	2.47	11.51	11.51	1.90	1.90	2.02	2.03
211	LITTLE OAKY CK	1834.00	O1-3A		0.18	0.17	0.20	0.17	0.19	0.19	0.21	0.18	0.11	0.11	0.12	0.11	0.09	0.04	0.07	0.08
212	LITTLE OAKY CK	1958.00			0.17	0.16	0.19	0.15	0.18	0.18	0.21	0.17	0.10	0.10	0.11	0.09	0.09	0.03	0.08	0.08

**BOYNE RIVER**  
**Dambreak & Flood Modelling Study**  
**Feature: 1 in 100 AEP Flood Model - (No Bridges Model)**  
**Maximum Water Level**

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
1	BOYNERIVER		0		15.241	17.082	18.716	17.809	11.719	13.14	14.271	15.154	16.104	16.949	17.279	16.945	21.975	23.235	21.876	20.681
2	BOYNERIVER	B21.7	817.7	D/S Awoonga Dam	14.592	16.344	17.952	17.086	11.272	12.653	13.746	14.549	15.4	16.232	16.575	16.255	21.072	22.337	20.983	19.842
3	BOYNERIVER	B21.15	1383.8		14.25	15.905	17.525	16.671	10.975	12.343	13.431	14.232	14.976	15.805	16.163	15.849	20.501	21.737	20.426	19.334
4	BOYNERIVER	B20.6	1985.9		13.754	15.266	16.886	16.061	10.578	11.913	12.984	13.773	14.423	15.196	15.563	15.26	19.7	20.9	19.648	18.602
5	BOYNERIVER		2182.33	Tucker Gully	13.616	15.102	16.754	15.922	10.452	11.777	12.85	13.646	14.291	15.041	15.417	15.11	19.566	20.761	19.518	18.475
6	BOYNERIVER		2182.33		13.616	15.102	16.754	15.922	10.452	11.777	12.85	13.646	14.291	15.041	15.417	15.11	19.566	20.761	19.518	18.475
7	BOYNERIVER	B20.1	2462.8		13.389	14.817	16.429	15.615	10.292	11.595	12.655	13.432	14.053	14.768	15.115	14.839	19.174	20.352	19.134	18.103
8	BOYNERIVER		3120.26	Coomal Ck	13.15	14.582	16.127	15.308	10.088	11.373	12.434	13.209	13.817	14.537	14.837	14.611	18.833	19.991	18.802	17.793
9	BOYNERIVER		3120.26		13.15	14.582	16.127	15.308	10.088	11.373	12.434	13.209	13.817	14.537	14.837	14.611	18.833	19.991	18.802	17.793
10	BOYNERIVER	B18.95	3313.4	Pikes Crossing	13.089	14.52	16.049	15.233	10.041	11.321	12.378	13.152	13.756	14.476	14.777	14.552	18.744	19.9	18.715	17.708
11	BOYNERIVER	B18.3	3976.4		12.72	14.142	15.591	14.822	9.72	10.97	12.023	12.804	13.393	14.104	14.415	14.196	18.251	19.393	18.231	17.226
12	BOYNERIVER	B17.6	4740.1		11.931	13.289	14.592	13.981	9.073	10.257	11.281	12.064	12.591	13.267	13.598	13.401	16.995	18.096	17.01	16.047
13	BOYNERIVER	B17.0	5457.3	Manns Weir 50m U/S	11.674	13.037	14.343	13.745	8.819	10.006	11.033	11.828	12.341	13.02	13.362	13.168	16.611	17.637	16.633	15.69
14	BOYNERIVER	B17.0	5457.3	Little Oaky Ck	11.674	13.037	14.343	13.745	8.819	10.006	11.033	11.828	12.341	13.02	13.362	13.168	16.611	17.637	16.633	15.69
15	BOYNERIVER	B16.7	5934.1		11.413	12.745	14.033	13.455	8.616	9.784	10.793	11.582	12.071	12.735	13.082	12.896	16.252	17.276	16.28	15.334
16	BOYNERIVER	B16.0	6676.8	Yunka Ck	11.083	12.386	13.638	13.102	8.357	9.496	10.487	11.275	11.734	12.385	12.751	12.563	15.647	16.664	15.686	14.827
17	BOYNERIVER	B16.0	6676.8		11.083	12.386	13.638	13.102	8.357	9.496	10.487	11.275	11.734	12.385	12.751	12.563	15.647	16.664	15.686	14.827
18	BOYNERIVER	B15.5	7293.4		10.803	12.079	13.316	12.791	8.129	9.25	10.226	10.998	11.446	12.084	12.451	12.264	15.154	16.144	15.202	14.459
19	BOYNERIVER	B14.8	8050.7	O'Land Station Ck Offtake	10.384	11.623	12.887	12.344	7.791	8.881	9.832	10.585	11.016	11.634	12.003	11.815	14.617	15.63	14.684	14.012
20	BOYNERIVER	B14.8	8050.7	QR Railway Bridge	10.384	11.623	12.887	12.344	7.791	8.881	9.832	10.585	11.016	11.634	12.003	11.815	14.617	15.63	14.684	14.012
21	BOYNERIVER	B14.35	8522.4		10.166	11.414	12.683	12.139	7.581	8.665	9.617	10.374	10.803	11.426	11.81	11.612	14.4	15.432	14.479	13.796
22	BOYNERIVER	B14.0	8856.2		10.084	11.342	12.622	12.074	7.473	8.57	9.532	10.295	10.727	11.355	11.746	11.544	14.347	15.381	14.428	13.739
23	BOYNERIVER	B13.6	9247.4		9.949	11.2	12.479	11.932	7.346	8.44	9.401	10.162	10.59	11.215	11.613	11.405	14.193	15.234	14.282	13.587
24	BOYNERIVER	B13.2	9679.3		9.825	11.057	12.322	11.781	7.261	8.339	9.287	10.037	10.457	11.073	11.475	11.263	14.012	15.056	14.109	13.412
25	BOYNERIVER	B12.8	10080.4		9.698	10.917	12.18	11.639	7.164	8.23	9.168	9.911	10.325	10.934	11.343	11.125	13.869	14.929	13.974	13.266
26	BOYNERIVER	B12.5	10412.8		9.572	10.784	12.043	11.504	7.049	8.111	9.045	9.787	10.196	10.802	11.216	10.994	13.723	14.79	13.836	13.12
27	BOYNERIVER	B12.2	10646.1	Bruce Hwy Bridge	9.502	10.707	11.968	11.428	6.995	8.05	8.979	9.717	10.123	10.726	11.144	10.918	13.649	14.723	13.766	13.044
28	BOYNERIVER		10832.9	Station Ck	9.421	10.613	11.863	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.051	10.823	13.537	14.617	13.66	12.93
29	BOYNERIVER		10832.9		9.421	10.613	11.863	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.051	10.823	13.537	14.617	13.66	12.93
30	BOYNERIVER	B11.6	11254.5		9.141	10.284	11.482	10.974	6.75	7.758	8.646	9.35	9.732	10.302	10.711	10.49	13.062	14.082	13.185	12.491
31	BOYNERIVER	B11.05	11848.6	Boyne Trib2 &	8.678	9.748	10.872	10.405	6.43	7.379	8.215	8.879	9.233	9.767	10.161	9.949	12.314	13.243	12.441	11.8
32	BOYNERIVER	B11.05	11848.6	O'L Boyne Offtake	8.678	9.748	10.872	10.405	6.43	7.379	8.215	8.879	9.233	9.767	10.161	9.949	12.314	13.243	12.441	11.8
33	BOYNERIVER		12303		8.381	9.437	10.547	10.092	6.172	7.102	7.926	8.585	8.931	9.457	9.853	9.642	11.945	12.848	12.08	11.45
34	BOYNERIVER		12303	Boyne Trib1	8.381	9.437	10.547	10.092	6.172	7.102	7.926	8.585	8.931	9.457	9.853	9.642	11.945	12.848	12.08	11.45
35	BOYNERIVER	B10.5	12455.4		8.268	9.319	10.424	9.974	6.064	6.992	7.814	8.472	8.815	9.339	9.737	9.525	11.805	12.697	11.943	11.318
36	BOYNERIVER		12785.4	Machine Ck	7.978	9.015	10.105	9.669	5.798	6.716	7.53	8.185	8.519	9.035	9.438	9.225	11.442	12.308	11.59	10.976
37	BOYNERIVER		12785.4		7.978	9.015	10.105	9.669	5.798	6.716	7.53	8.185	8.519	9.035	9.438	9.225	11.442	12.308	11.59	10.976
38	BOYNERIVER	B10.2	12874.9		7.89	8.922	10.007	9.575	5.722	6.634	7.445	8.098	8.429	8.942	9.344	9.133	11.329	12.185	11.477	10.87
39	BOYNERIVER	B9.8	13251.3		7.697	8.726	9.813	9.385	5.547	6.448	7.253	7.906	8.235	8.746	9.152	8.94	11.128	11.983	11.279	10.673
40	BOYNERIVER	B9.1	13865.9		7.277	8.256	9.293	8.898	5.235	6.088	6.855	7.483	7.791	8.276	8.67	8.468	10.507	11.3	10.654	10.093
41	BOYNERIVER		14304.56	Wurdong Ck	7.079	8.042	9.064	8.681	5.079	5.911	6.664	7.284	7.585	8.061	8.454	8.254	10.245	11.017	10.392	9.845
42	BOYNERIVER		14304.56		7.079	8.042	9.064	8.681	5.079	5.911	6.664	7.284	7.585	8.061	8.454	8.254	10.245	11.017	10.392	9.845
43	BOYNERIVER	B8.5	14472.2		7.027	7.986	9.006	8.624	5.036	5.864	6.613	7.231	7.531	8.006	8.398	8.198	10.178	10.945	10.324	9.781
44	BOYNERIVER	B8.0	14964.2		6.811	7.747	8.753	8.378	4.87	5.674	6.406	7.011	7.304	7.767	8.154	7.954	9.894	10.643	10.036	9.506
45	BOYNERIVER	B7.55	15341.2		6.528	7.433	8.405	8.048	4.67	5.437	6.139	6.722	7.006	7.452	7.833	7.631	9.474	10.176	9.608	9.111

# BOYNE RIVER

## Dambreak & Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model - (No Bridges Model)

#### Maximum Water Level

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
46	BOYNERIVER	B7.2	15741.5		6.267	7.157	8.118	7.771	4.452	5.196	5.885	6.457	6.737	7.176	7.559	7.352	9.14	9.813	9.268	8.792
47	BOYNERIVER		16062.9	O'L Boyne D/S	6.123	7.017	7.987	7.641	4.311	5.05	5.74	6.313	6.595	7.036	7.427	7.213	9.004	9.675	9.132	8.656
48	BOYNERIVER		16062.9		6.123	7.017	7.987	7.641	4.311	5.05	5.74	6.313	6.595	7.036	7.427	7.213	9.004	9.675	9.132	8.656
49	BOYNERIVER	B6.8	16145.4		6.092	6.983	7.953	7.607	4.286	5.021	5.71	6.281	6.562	7.003	7.393	7.179	8.968	9.64	9.097	8.62
50	BOYNERIVER	B6.2	16727.9		5.747	6.602	7.558	7.224	4.034	4.725	5.384	5.928	6.196	6.621	7.016	6.793	8.52	9.171	8.648	8.189
51	BOYNERIVER	B5.55	17358.6		5.368	6.175	7.115	6.795	3.774	4.41	5.027	5.538	5.789	6.194	6.595	6.36	8.028	8.67	8.157	7.708
52	BOYNERIVER		17722.19	South Trees	4.99	5.705	6.58	6.296	3.578	4.14	4.689	5.141	5.361	5.723	6.114	5.874	7.365	7.95	7.486	7.086
53	BOYNERIVER		17722.19		4.99	5.705	6.58	6.296	3.578	4.14	4.689	5.141	5.361	5.723	6.114	5.874	7.365	7.95	7.486	7.086
54	BOYNERIVER	B5.0	17874.5		4.884	5.576	6.431	6.151	3.526	4.066	4.594	5.029	5.241	5.593	5.974	5.74	7.212	7.799	7.333	6.935
55	BOYNERIVER		18184.66	Cattle Ck	4.74	5.411	6.257	5.976	3.447	3.958	4.462	4.88	5.084	5.429	5.801	5.573	7.052	7.653	7.176	6.769
56	BOYNERIVER		18184.66		4.74	5.411	6.257	5.976	3.447	3.958	4.462	4.88	5.084	5.429	5.801	5.573	7.052	7.653	7.176	6.769
57	BOYNERIVER	B4.5	18476.2		4.594	5.245	6.071	5.796	3.358	3.841	4.325	4.729	4.927	5.262	5.626	5.403	6.851	7.441	6.973	6.573
58	BOYNERIVER	B4.05	18884.2		4.35	4.951	5.722	5.464	3.225	3.66	4.102	4.475	4.657	4.966	5.303	5.097	6.45	6.994	6.563	6.191
59	BOYNERIVER	B3.65	19282.4		4.233	4.826	5.591	5.337	3.155	3.567	3.992	4.356	4.535	4.841	5.177	4.972	6.31	6.851	6.422	6.054
60	BOYNERIVER	B3.15	19869.5		3.995	4.549	5.269	5.031	3.025	3.385	3.772	4.109	4.276	4.563	4.88	4.686	5.941	6.48	6.052	5.701
61	BOYNERIVER	B2.75	20263.7		3.762	4.272	4.944	4.724	2.918	3.226	3.564	3.864	4.018	4.285	4.582	4.4	5.561	6.059	5.664	5.341
62	BOYNERIVER	B2.45	20684.6		3.553	3.998	4.608	4.395	2.827	3.087	3.38	3.642	3.776	4.01	4.271	4.111	5.198	5.674	5.296	4.988
63	BOYNERIVER	B2.25	20866.3		3.468	3.906	4.507	4.3	2.791	3.032	3.305	3.554	3.686	3.917	4.176	4.018	5.076	5.535	5.17	4.873
64	BOYNERIVER	B1.85	21269.4	John Oxley Bridge	3.255	3.621	4.148	3.964	2.71	2.901	3.122	3.327	3.436	3.631	3.854	3.716	4.645	5.044	4.727	4.468
65	BOYNERIVER	B1.65	21471.7		3.105	3.405	3.839	3.684	2.657	2.815	2.995	3.164	3.254	3.413	3.595	3.482	4.244	4.565	4.31	4.101
66	BOYNERIVER	B1.2	21861.2		2.986	3.247	3.633	3.496	2.61	2.74	2.892	3.036	3.114	3.254	3.416	3.315	3.973	4.236	4.028	3.854
67	BOYNERIVER	B0.9	22251.3		2.794	2.98	3.263	3.161	2.541	2.626	2.729	2.83	2.885	2.985	3.102	3.029	3.517	3.703	3.556	3.428
68	BOYNERIVER	B0.5	22636		2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
69	COOMALCK	C1	0		38.018	38.051	38.064	37.74	38.018	38.051	38.064	37.74	38.018	38.051	38.064	37.74	38.018	38.051	38.064	37.74
70	COOMALCK	C2	398.2		33.341	33.375	33.385	33.058	33.341	33.375	33.385	33.058	33.341	33.375	33.385	33.058	33.341	33.375	33.385	33.058
71	COOMALCK	C3	794.2		29.642	29.675	29.684	29.377	29.642	29.675	29.684	29.377	29.642	31.177	29.684	29.377	30.354	29.675	29.684	29.377
72	COOMALCK	C4	1209.5		26.578	26.613	27.034	26.254	26.578	26.613	26.636	26.254	26.579	26.613	26.636	26.254	27.185	26.612	27.199	26.254
73	COOMALCK	C5	1813.3		22.281	22.275	22.775	21.603	22.281	21.944	21.956	21.603	22.281	21.941	21.953	21.604	22.281	22.545	22.704	21.599
74	COOMALCK	C6	2352.8		17.112	17.132	17.193	16.77	17.114	17.134	17.195	16.771	17.133	17.152	17.212	16.785	18.833	19.992	18.804	17.795
75	COOMALCK	C7	3112.2		13.173	14.585	16.127	15.308	12.923	12.254	12.481	13.21	13.83	14.54	14.837	14.611	18.833	19.992	18.802	17.793
76	COOMALCK	C8	3751.3		13.154	14.579	16.127	15.308	10.093	11.374	12.432	13.209	13.816	14.534	14.837	14.611	18.833	19.992	18.802	17.793
77	COOMALCK	C9	4222.5		13.149	14.581	16.127	15.308	10.085	11.373	12.434	13.209	13.817	14.536	14.837	14.611	18.833	19.991	18.802	17.793
78	COOMALCK		4305		13.15	14.582	16.127	15.308	10.088	11.373	12.434	13.209	13.817	14.537	14.837	14.611	18.833	19.991	18.802	17.793
79	YUNKACK	Y1	0		34.489	34.469	34.713	36.578	34.489	34.469	34.713	36.578	34.489	34.469	34.713	36.578	34.489	34.469	34.713	36.578
80	YUNKACK	Y2	574.2		26.859	26.836	26.994	28.006	26.859	26.836	26.994	28.006	26.859	26.836	26.994	28.006	26.859	26.836	26.994	28.006
81	YUNKACK	Y3	948.9		22.26	22.245	22.403	23.645	22.26	22.245	22.403	23.645	22.26	22.245	22.403	23.645	22.261	22.246	22.404	23.645
82	YUNKACK	Y4	1253.1		19.001	18.989	19.111	20.621	19.001	18.989	19.111	20.62	19.002	18.995	19.112	20.625	19.011	19.003	19.118	20.62
83	YUNKACK	Y5	1835.5		11.083	12.387	13.637	13.112	9.44	9.497	10.485	12.016	11.733	12.384	12.785	12.58	15.647	16.664	15.686	14.833
84	YUNKACK	Y6	2434.6		11.084	12.387	13.638	13.103	8.358	9.497	10.487	11.278	11.734	12.385	12.735	12.565	15.647	16.664	15.686	14.828
85	YUNKACK	Y7	2763		11.083	12.386	13.638	13.102	8.357	9.496	10.487	11.275	11.734	12.385	12.751	12.563	15.647	16.664	15.686	14.827
86	TUCKERGULLY		0		36.642	36.659	36.799	36.533	36.642	36.659	36.799	36.533	36.642	36.659	36.799	36.533	36.642	36.659	36.799	36.533
87	TUCKERGULLY	TU-1	1066.8		34.565	34.578	34.682	34.484	34.565	34.578	34.682	34.484	34.565	34.578	34.682	34.484	34.565	34.578	34.682	34.484
88	TUCKERGULLY	TU-2	1965.8		29.598	29.607	29.736	29.501	29.598	29.607	29.736	29.501	29.598	29.607	29.736	29.501	29.598	29.607	29.736	29.501
89	TUCKERGULLY	TU-3	2491.1		26.377	26.385	26.512	26.28	26.377	26.385	26.512	26.28	26.377	26.385	26.512	26.28	26.378	26.385	26.512	26.28
90	TUCKERGULLY	TU-4	3217.5		22.046	22.056	22.185	21.949	22.046	22.056	22.185	21.949	22.046	22.056	22.185	21.949	22.042	22.054	22.184	21.949

# BOYNE RIVER

## Dambreak & Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model - (No Bridges Model)

#### Maximum Water Level

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
91	TUCKERGULLY	TU-5	3966.5		18.377	18.381	18.54	18.261	18.377	18.381	18.54	18.261	18.377	18.381	18.54	18.261	19.569	20.766	19.526	18.489
92	TUCKERGULLY	TU-6	4522.1		16.391	16.395	16.757	16.282	16.391	16.395	16.545	16.282	16.385	16.396	16.544	16.283	19.567	20.762	19.519	18.476
93	TUCKERGULLY	TU-7	5384.2	Awoonga Dam Road X-ing	13.615	15.103	16.754	15.922	12.53	12.535	12.853	13.65	14.293	15.043	15.417	15.112	19.567	20.761	19.518	18.475
94	TUCKERGULLY		5765.4	Tucker Trib	13.616	15.103	16.754	15.922	10.452	11.778	12.853	13.647	14.292	15.043	15.417	15.111	19.566	20.761	19.518	18.475
95	TUCKERGULLY		5765.4		13.616	15.103	16.754	15.922	10.452	11.778	12.853	13.647	14.292	15.043	15.417	15.111	19.566	20.761	19.518	18.475
96	TUCKERGULLY	TU-8	6350.1		13.616	15.103	16.754	15.922	10.45	11.776	12.851	13.647	14.292	15.042	15.417	15.11	19.566	20.761	19.518	18.475
97	TUCKERGULLY	TU-9	6669		13.616	15.102	16.754	15.922	10.452	11.777	12.85	13.646	14.291	15.041	15.417	15.11	19.566	20.761	19.518	18.475
98	TUCKERTRIB		0		30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815
99	TUCKERTRIB	T1-1	206.2		30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261	30.261
100	TUCKERTRIB	T1-2	730.4		27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265	27.265
101	TUCKERTRIB	T1-3	1416.7		20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311	20.311
102	TUCKERTRIB	T1-4	1944.8		15.755	15.755	16.755	15.943	15.755	15.755	15.755	15.755	15.755	15.755	15.755	15.755	19.567	20.762	19.518	18.476
103	TUCKERTRIB	T1-5	2331.5		14.178	15.104	16.754	15.922	14.178	14.178	14.178	14.178	14.305	15.046	15.418	15.112	19.567	20.762	19.518	18.475
104	TUCKERTRIB	T1-6	2914.7	Awoonga Dam Road X-ing	13.616	15.103	16.754	15.922	11.713	11.829	12.861	13.647	14.294	15.044	15.417	15.111	19.567	20.762	19.518	18.475
105	TUCKERTRIB		3377		13.616	15.103	16.754	15.922	10.452	11.778	12.853	13.647	14.292	15.043	15.417	15.111	19.566	20.761	19.518	18.475
106	STATIONCK	S1	0		16.576	16.527	16.666	15.793	16.576	16.527	16.666	15.793	16.576	16.527	16.666	15.793	16.576	16.527	16.666	15.793
107	STATIONCK	S2	684.5		15.244	15.135	15.359	14.072	15.244	15.135	15.359	14.072	15.244	15.135	15.359	14.072	15.244	15.135	15.359	14.072
108	STATIONCK	S3	1599.7		13.599	13.452	13.695	11.804	13.599	13.452	13.695	11.804	13.599	13.452	13.695	11.804	13.598	14.63	13.738	12.937
109	STATIONCK	S4	2431.3		10.733	10.654	11.866	11.329	10.733	10.654	10.892	9.766	10.733	10.655	11.103	10.825	13.542	14.626	13.67	12.933
110	STATIONCK	S5	3013.7		9.422	10.613	11.864	11.328	9.304	9.223	9.458	9.636	10.036	10.631	11.061	10.823	13.542	14.626	13.667	12.933
111	STATIONCK	S6	3734.9	Bruce H'way	9.422	10.613	11.864	11.328	8.004	7.984	8.906	9.635	10.036	10.631	11.054	10.823	13.541	14.625	13.665	12.933
112	STATIONCK	S7	4481.7		9.422	10.613	11.864	11.328	6.939	7.984	8.906	9.635	10.036	10.631	11.052	10.823	13.541	14.625	13.664	12.933
113	STATIONCK	S8	5140.8		9.422	10.613	11.864	11.328	6.939	7.984	8.905	9.635	10.036	10.631	11.052	10.823	13.541	14.625	13.664	12.932
114	STATIONCK	S9	5918.9		9.422	10.613	11.864	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.052	10.823	13.54	14.624	13.664	12.932
115	STATIONCK	S10	6575.5		9.422	10.613	11.864	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.052	10.823	13.54	14.624	13.664	12.932
116	STATIONCK		6954.4	O'L Station D/S	9.422	10.613	11.864	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.052	10.823	13.54	14.624	13.663	12.932
117	STATIONCK		6954.4		9.422	10.613	11.864	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.052	10.823	13.54	14.624	13.663	12.932
118	STATIONCK	S11	7691		9.421	10.613	11.863	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.051	10.823	13.537	14.617	13.66	12.93
119	MACHINECK	M1	0		34.181	34.203	34.288	33.615	34.181	34.203	34.288	33.615	34.181	34.203	34.288	33.615	34.181	34.203	34.288	33.615
120	MACHINECK	M2	726.3		29.298	29.313	29.39	28.714	29.298	29.313	29.39	28.714	29.298	29.313	29.39	28.714	29.298	29.313	29.39	28.714
121	MACHINECK	M3	1186.8		27.084	27.093	27.141	26.615	27.084	27.093	27.141	26.615	27.084	27.093	27.141	26.615	27.084	27.093	27.141	26.615
122	MACHINECK	M4	1699.1		23.586	23.598	23.693	22.924	23.586	23.598	23.693	22.924	23.586	23.598	23.693	22.924	23.586	23.598	23.693	22.924
123	MACHINECK	M5	2214.8		21.151	21.158	21.217	20.809	21.151	21.158	21.217	20.809	21.151	21.158	21.217	20.809	21.151	21.158	21.217	20.809
124	MACHINECK	M6	2730.6		17.541	17.549	17.611	17.122	17.541	17.549	17.611	17.122	17.541	17.549	17.611	17.122	17.541	17.549	17.611	17.122
125	MACHINECK	M7	3140.9		15.53	15.538	15.602	14.841	15.53	15.538	15.602	14.841	15.53	15.538	15.602	14.841	15.53	15.538	15.602	14.841
126	MACHINECK	M8	3611.9		13.25	13.26	13.342	12.686	13.25	13.26	13.342	12.686	13.25	13.26	13.342	12.686	13.249	13.259	13.342	12.685
127	MACHINECK	M9	4246.8	Road/Rail X-ing	11.452	11.457	11.529	10.987	11.452	11.457	11.528	10.987	11.454	11.458	11.529	10.992	11.453	12.309	11.631	11.007
128	MACHINECK	M10	5099.9		7.978	9.015	10.105	9.669	6.664	6.716	7.53	8.185	8.519	9.035	9.438	9.225	11.443	12.308	11.591	10.976
129	MACHINECK	M11	5868.4	Bruce H'way 100m U/S	7.978	9.015	10.105	9.669	5.798	6.716	7.53	8.185	8.519	9.035	9.438	9.225	11.442	12.308	11.591	10.976
130	MACHINECK	M12	6711		7.978	9.015	10.105	9.669	5.798	6.716	7.53	8.185	8.519	9.035	9.438	9.225	11.442	12.308	11.59	10.976
131	O'LSTATION		0		10.384	11.623	12.887	12.344	7.791	8.881	9.832	10.585	11.016	11.634	12.003	11.815	14.617	15.63	14.684	14.012
132	O'LSTATION	O2-1	304.1		10.377	11.621	12.869	12.34	7.577	8.662	9.827	10.578	11.004	11.631	12.002	11.813	14.579	15.573	14.645	13.989
133	O'LSTATION	O2-2	1252.2		10.299	11.58	12.748	12.282	7.276	8.342	9.758	10.502	10.899	11.591	11.944	11.78	14.384	15.331	14.448	13.857
134	O'LSTATION	O2-3	1924.6		9.719	10.655	12.284	11.373	7.152	8.211	9.356	9.955	10.192	10.672	11.095	10.851	13.835	14.936	13.94	13.19
135	O'LSTATION		2385.5		9.533	10.631	11.894	11.34	7.02	8.069	9.171	9.768	10.105	10.649	11.067	10.836	13.6	14.706	13.721	12.968

**BOYNE RIVER**  
**Dambreak & Flood Modelling Study**  
**Feature: 1 in 100 AEP Flood Model - (No Bridges Model)**  
**Maximum Water Level**

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
136	O'LSTATION	O2-4	2588	Bruce H'way	9.422	10.613	11.864	11.328	6.939	7.984	8.905	9.635	10.035	10.631	11.052	10.823	13.54	14.624	13.663	12.932
137	WURDONGCK	W1	0		26.604	26.598	26.761	27.313	26.604	26.598	26.761	27.313	26.604	26.598	26.761	27.313	26.604	26.598	26.761	27.313
138	WURDONGCK	W2	616.4		21.383	21.39	21.557	22.025	21.383	21.39	21.557	22.025	21.383	21.39	21.557	22.025	21.383	21.39	21.557	22.025
139	WURDONGCK	W3	1311.6		16.266	16.239	16.472	17.003	16.266	16.239	16.472	17.003	16.265	16.239	16.472	17.003	16.265	16.239	16.472	17.003
140	WURDONGCK	W4	1752.9		13.748	13.738	13.96	14.556	13.747	13.738	13.96	14.556	13.748	13.74	13.96	14.556	13.75	13.745	13.962	14.557
141	WURDONGCK	W5	2482.5	GLD/Benaraby Rd 100m D/S	8.493	8.48	9.065	9.147	8.494	8.481	8.583	9.147	8.489	8.475	8.579	9.144	10.246	11.018	10.393	9.849
142	WURDONGCK	W6	3446.5		7.079	8.042	9.065	8.681	5.079	5.911	6.664	7.284	7.585	8.061	8.454	8.254	10.246	11.018	10.393	9.845
143	WURDONGCK	W7	4664		7.079	8.042	9.064	8.681	5.079	5.911	6.664	7.284	7.585	8.061	8.454	8.254	10.245	11.017	10.392	9.845
144	BOYNETRIB1	T2-1	0		24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036	24.036
145	BOYNETRIB1	T2-2	573.1		16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242	16.242
146	BOYNETRIB1	T2-3	1368.3		10.418	10.418	10.551	10.418	10.418	10.418	10.418	10.418	10.418	10.418	10.418	10.418	11.944	12.847	12.083	11.451
147	BOYNETRIB1	T2-4	1848.2	Bruce H'way 75m D/S	10.163	10.163	10.547	10.163	10.163	10.163	10.163	10.163	10.163	10.163	10.163	10.163	11.945	12.848	12.081	11.451
148	BOYNETRIB1	T2-5	2194.8		9.444	9.444	10.547	10.092	9.444	9.444	9.444	9.444	9.444	9.459	9.854	9.642	11.945	12.848	12.081	11.451
149	BOYNETRIB1	T2-6	2663		8.381	9.437	10.547	10.092	6.172	7.102	7.926	8.585	8.931	9.457	9.853	9.642	11.945	12.848	12.08	11.45
150	BOYNETRIB2	T3-1	0		18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325	18.325
151	BOYNETRIB2	T3-2	381.2		14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526	14.526
152	BOYNETRIB2	T3-3	713.6		10.377	10.377	10.873	10.413	10.377	10.377	10.377	10.377	10.377	10.377	10.377	10.377	12.314	13.243	12.441	11.8
153	BOYNETRIB2	T3-4	1247.1		8.678	9.749	10.872	10.405	6.804	7.397	8.216	8.879	9.233	9.767	10.161	9.949	12.314	13.244	12.441	11.8
154	BOYNETRIB2	T3-5	1804		8.678	9.748	10.872	10.405	6.43	7.379	8.215	8.879	9.233	9.767	10.161	9.949	12.314	13.243	12.441	11.8
155	O'LANDBOYNE		0		8.678	9.748	10.872	10.405	6.43	7.379	8.215	8.879	9.233	9.767	10.161	9.949	12.314	13.243	12.441	11.8
156	O'LANDBOYNE	O3-1	462.1		7.188	8.178	9.251	8.821	5.142	6.001	6.766	7.381	7.704	8.198	8.587	8.376	10.573	11.43	10.705	10.101
157	O'LANDBOYNE	O3-2	843.9		6.568	7.544	8.601	8.197	4.567	5.391	6.15	6.766	7.08	7.565	7.966	7.748	9.817	10.643	9.953	9.386
158	O'LANDBOYNE	O3-3	1492.5		6.23	7.107	8.052	7.711	4.407	5.161	5.852	6.415	6.695	7.126	7.503	7.297	9.068	9.745	9.195	8.719
159	O'LANDBOYNE		1924.31	O'Land01 U/S	6.153	7.043	8.003	7.66	4.326	5.073	5.769	6.342	6.624	7.062	7.448	7.237	9.01	9.678	9.137	8.665
160	O'LANDBOYNE		1924.31		6.153	7.043	8.003	7.66	4.326	5.073	5.769	6.342	6.624	7.062	7.448	7.237	9.01	9.678	9.137	8.665
161	O'LANDBOYNE	O3-4	2032		6.123	7.017	7.987	7.641	4.311	5.05	5.74	6.313	6.595	7.036	7.427	7.213	9.004	9.675	9.132	8.656
162	O'LAND01		0		6.153	7.043	8.003	7.66	4.326	5.073	5.769	6.342	6.624	7.062	7.448	7.237	9.01	9.678	9.137	8.665
163	O'LAND01	O4-01	415.3		6.153	7.035	7.961	7.639	4.326	5.073	5.769	6.342	6.624	7.053	7.43	7.223	8.891	9.499	9.009	8.569
164	O'LAND01	O4-02	1018.8		6.152	6.999	7.827	7.563	5.8	5.8	5.8	6.339	6.62	7.016	7.363	7.169	8.583	9.102	8.686	8.314
165	O'LAND01	O4-03	1360.2		4.892	6.096	7.138	6.92	4.2	4.2	4.462	5.105	5.391	6.127	6.664	6.381	7.918	8.554	8.043	7.636
166	O'LAND01	O4-04	1988.3		4.743	5.487	6.437	6.131	4.2	4.2	4.462	4.885	5.092	5.508	5.931	5.683	7.33	8.039	7.47	7.014
167	O'LAND01	O4-05	2586.5		4.741	5.415	6.286	5.988	3.447	3.958	4.462	4.88	5.084	5.432	5.81	5.579	7.169	7.866	7.31	6.853
168	O'LAND01	O4-06	3091		4.74	5.412	6.263	5.979	3.447	3.958	4.462	4.88	5.084	5.429	5.803	5.575	7.082	7.714	7.212	6.79
169	CATTLECK	CC1	0	Tannum Sands Rd 50m D/S	7.945	7.928	8.015	7.939	7.945	7.928	8.015	7.939	7.945	7.928	8.015	7.939	7.945	7.928	8.015	7.939
170	CATTLECK	CC2	743.6		6.096	6.09	6.263	6.089	6.096	6.09	6.194	6.089	6.096	6.089	6.194	6.088	7.082	7.714	7.212	6.79
171	CATTLECK	CC3	1293.1		4.74	5.412	6.263	5.979	3.447	3.958	4.462	4.88	5.084	5.429	5.803	5.575	7.082	7.714	7.212	6.79
172	CATTLECK		1994.43	O'Land01 D/S	4.74	5.412	6.263	5.979	3.447	3.958	4.462	4.88	5.084	5.429	5.803	5.575	7.082	7.714	7.212	6.79
173	CATTLECK		1994.43		4.74	5.412	6.263	5.979	3.447	3.958	4.462	4.88	5.084	5.429	5.803	5.575	7.082	7.714	7.212	6.79
174	CATTLECK	CC4	2124.8		4.74	5.412	6.261	5.978	3.447	3.958	4.462	4.88	5.084	5.429	5.803	5.574	7.069	7.688	7.197	6.781
175	CATTLECK		2335		4.74	5.411	6.257	5.976	3.447	3.958	4.462	4.88	5.084	5.429	5.801	5.573	7.052	7.653	7.176	6.769
176	STHTREES	ST1	0	Sth Trees/BoyneR Bifurcate	4.99	5.705	6.58	6.296	3.578	4.14	4.689	5.141	5.361	5.723	6.114	5.874	7.365	7.95	7.486	7.086
177	STHTREES	ST2	851.8		4.171	4.771	5.225	4.984	3.102	3.497	3.917	4.315	4.503	4.79	4.92	4.913	6.075	6.646	6.225	5.801
178	STHTREES	ST3	1579.6	Boyne Is Rd Bridge	3.85	4.398	4.826	4.591	2.934	3.26	3.618	3.989	4.162	4.417	4.529	4.529	5.693	6.264	5.856	5.422
179	STHTREES	ST4	2361.3		3.552	4.052	4.498	4.244	2.82	3.079	3.366	3.666	3.818	4.072	4.18	4.186	5.418	5.997	5.594	5.142
180	STHTREES	ST5	2829.5		3.464	3.95	4.391	4.142	2.783	3.022	3.29	3.572	3.718	3.971	4.077	4.084	5.324	5.906	5.503	5.044

# BOYNE RIVER

## Dambreak & Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model - (No Bridges Model)

#### Maximum Water Level

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	FSL30 - 06hr	FSL30 - 12hr	FSL30 - 24hr	FSL30 - 48hr	FSL40 - 06hr	FSL40 - 12hr	FSL40 - 24hr	FSL40 - 48hr	FSL45 - 06hr	FSL45 - 12hr	FSL45 - 24hr	FSL45 - 48hr	FSL55 - 06hr	FSL55 - 12hr	FSL55 - 24hr	FSL55 - 48hr
					Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
181	STHTREES	ST6	3773.5		3.322	3.787	4.213	3.973	2.706	2.914	3.16	3.426	3.565	3.807	3.912	3.918	5.153	5.749	5.345	4.871
182	STHTREES	ST7	4171.6		3.261	3.719	4.142	3.904	2.672	2.866	3.103	3.363	3.5	3.74	3.845	3.85	5.081	5.68	5.277	4.8
183	STHTREES	ST8	4595.4		3.176	3.616	4.031	3.796	2.634	2.808	3.026	3.273	3.404	3.636	3.742	3.745	4.963	5.558	5.163	4.685
184	STHTREES		5122.39	Ten Mile Ck	3.086	3.497	3.896	3.671	2.602	2.754	2.949	3.176	3.298	3.516	3.621	3.622	4.809	5.393	5.014	4.539
185	STHTREES		5122.39		3.086	3.497	3.896	3.671	2.602	2.754	2.949	3.176	3.298	3.516	3.621	3.622	4.809	5.393	5.014	4.539
186	STHTREES	ST9	5493.4		3.043	3.434	3.821	3.602	2.588	2.73	2.913	3.129	3.244	3.453	3.555	3.555	4.711	5.279	4.913	4.448
187	STHTREES	ST10	6390.9		2.768	3.035	3.32	3.158	2.502	2.579	2.687	2.825	2.903	3.049	3.126	3.124	4.016	4.477	4.19	3.809
188	STHTREES	ST11	7658.8		2.592	2.738	2.907	2.81	2.459	2.496	2.551	2.623	2.664	2.746	2.798	2.792	3.355	3.7	3.515	3.223
189	STHTREES		8251.05	Eleven Mile Ck	2.577	2.712	2.87	2.779	2.456	2.49	2.539	2.605	2.643	2.719	2.769	2.763	3.297	3.63	3.455	3.17
190	STHTREES		8251.05		2.577	2.712	2.87	2.779	2.456	2.49	2.539	2.605	2.643	2.719	2.769	2.763	3.297	3.63	3.455	3.17
191	STHTREES	ST12	9287.1		2.548	2.66	2.793	2.717	2.449	2.476	2.517	2.571	2.603	2.666	2.708	2.703	3.166	3.463	3.307	3.053
192	STHTREES	ST13	11258.1		2.495	2.563	2.646	2.598	2.437	2.453	2.477	2.509	2.528	2.567	2.592	2.589	2.89	3.098	2.988	2.815
193	STHTREES	ST14	12688.1		2.462	2.501	2.55	2.521	2.429	2.438	2.452	2.47	2.481	2.503	2.518	2.516	2.698	2.836	2.761	2.651
194	STHTREES	ST15	14444.9		2.443	2.464	2.491	2.476	2.425	2.43	2.437	2.447	2.453	2.465	2.474	2.473	2.576	2.661	2.614	2.549
195	STHTREES	ST16	17478		2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
196	TENMILECK	T4-1	0	GLD/Benaraby Boyne X-ing	10.472	10.477	10.602	10.371	10.472	10.477	10.602	10.371	10.472	10.477	10.602	10.371	10.472	10.477	10.602	10.371
197	TENMILECK	T4-2	510.2		4.944	4.952	5.095	4.822	4.944	4.952	5.095	4.822	4.944	4.951	5.095	4.821	4.943	5.409	5.113	4.821
198	TENMILECK	T4-3	1040.5		3.086	3.497	3.896	3.671	2.667	2.754	2.95	3.176	3.298	3.516	3.622	3.622	4.81	5.393	5.016	4.539
199	TENMILECK	T4-4	1753.9		3.086	3.497	3.896	3.671	2.602	2.754	2.95	3.176	3.298	3.516	3.621	3.622	4.809	5.393	5.015	4.539
200	TENMILECK	T4-5	2298		3.086	3.497	3.896	3.671	2.602	2.754	2.949	3.176	3.298	3.516	3.621	3.622	4.809	5.393	5.014	4.539
201	ELEVENMILECK	T5-1	0		13.072	13.083	13.129	12.456	13.072	13.083	13.129	12.456	13.072	13.083	13.129	12.456	13.072	13.083	13.129	12.456
202	ELEVENMILECK	T5-2	883.9	GLD/Benaraby Rd	5.735	5.761	5.874	4.935	5.735	5.761	5.874	4.935	5.735	5.761	5.874	4.935	5.734	5.761	5.874	4.935
203	ELEVENMILECK	T5-3	1811.4		2.577	2.712	2.87	2.779	2.513	2.516	2.539	2.605	2.643	2.719	2.77	2.763	3.297	3.63	3.457	3.171
204	ELEVENMILECK	T5-4	3118.2		2.577	2.712	2.87	2.779	2.456	2.49	2.539	2.605	2.643	2.719	2.769	2.763	3.297	3.63	3.455	3.17
205	ELEVENMILECK		3887		2.577	2.712	2.87	2.779	2.456	2.49	2.539	2.605	2.643	2.719	2.769	2.763	3.297	3.63	3.455	3.17
206	LITTLEOAKYCK	01-1A	0		17.66	17.672	17.731	17.737	17.661	17.673	17.731	17.738	17.658	17.67	17.729	17.737	17.662	17.674	17.728	17.735
207	LITTLEOAKYCK	01-2A	670		11.674	13.036	14.343	13.745	10.693	10.71	11.036	11.828	12.342	13.021	13.36	13.168	16.611	17.638	16.633	15.69
208	LITTLEOAKYCK	01-3A	1834		11.674	13.037	14.343	13.745	8.819	10.006	11.033	11.828	12.341	13.02	13.362	13.168	16.611	17.638	16.633	15.69
209	LITTLEOAKYCK		1958		11.674	13.037	14.343	13.745	8.819	10.006	11.033	11.828	12.341	13.02	13.362	13.168	16.611	17.637	16.633	15.69



# BOYNE RIVER

## Dambreak & Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model - Maximum Water Level - (No Bridges Modelled)

#### Sensitivity Analysis - adopted mannings 'n' +/- 10%

#### Comparison of Maximum Flood Heights - FSL55

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	River Bed EL (m) AHD	n - 10%	adopted n	n + 10%
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
1	BOYNERIVER		0		8	22.413	23.235	23.978
2	BOYNERIVER	B21.7	817.7	D/S Awoonga Dam	1.2	21.522	22.337	23.051
3	BOYNERIVER	B21.15	1383.8		1.15	20.963	21.737	22.407
4	BOYNERIVER	B20.6	1985.9		1.1	20.146	20.9	21.538
5	BOYNERIVER		2182.33	Tucker Gully	1	20.038	20.761	21.366
6	BOYNERIVER		2182.33		0.5	20.038	20.761	21.366
7	BOYNERIVER	B20.1	2462.8		-1.49	19.63	20.352	20.952
8	BOYNERIVER		3120.26	Coomal Ck	-1	19.321	19.991	20.546
9	BOYNERIVER		3120.26		-1	19.321	19.991	20.546
10	BOYNERIVER	B18.95	3313.4	Pikes Crossing	-0.185	19.234	19.9	20.449
11	BOYNERIVER	B18.3	3976.4		-0.986	18.734	19.393	19.922
12	BOYNERIVER	B17.6	4740.1		-0.982	17.439	18.096	18.644
13	BOYNERIVER	B17.0	5457.3	Manns Weir 50m U/S	0.3	17.081	17.637	18.141
14	BOYNERIVER	B17.0	5457.3	Little Oaky Ck	0.3	17.081	17.637	18.141
15	BOYNERIVER	B16.7	5934.1		-3.516	16.713	17.276	17.782
16	BOYNERIVER	B16.0	6676.8	Yunka Ck	-3.83	16.109	16.664	17.162
17	BOYNERIVER	B16.0	6676.8		-3.83	16.109	16.664	17.162
18	BOYNERIVER	B15.5	7293.4		-1.175	15.592	16.144	16.634
19	BOYNERIVER	B14.8	8050.7	O'LStation Offtake	-0.76	15.1	15.63	16.09
20	BOYNERIVER	B14.8	8050.7	Railway Bridge	-0.76	15.1	15.63	16.09
21	BOYNERIVER	B14.35	8522.4		-0.11	14.914	15.432	15.896
22	BOYNERIVER	B14.0	8856.2		-0.552	14.88	15.381	15.837
23	BOYNERIVER	B13.6	9247.4		-5.211	14.719	15.234	15.696
24	BOYNERIVER	B13.2	9679.3		-8.227	14.539	15.056	15.515
25	BOYNERIVER	B12.8	10080.4		0.193	14.415	14.929	15.388
26	BOYNERIVER	B12.5	10412.8		-1.19	14.275	14.79	15.253
27	BOYNERIVER	B12.2	10646.1	Bruce Hwy Bridge	-6.758	14.21	14.723	15.186
28	BOYNERIVER		10832.9	Station Ck	-6	14.092	14.617	15.09
29	BOYNERIVER		10832.9		-6	14.092	14.617	15.09
30	BOYNERIVER	B11.6	11254.5		-4.335	13.569	14.082	14.544
31	BOYNERIVER	B11.05	11848.6	Boyne Trib2 &	-1.522	12.816	13.243	13.627
32	BOYNERIVER	B11.05	11848.6	O'LBoyne Offtake	-1.522	12.816	13.243	13.627
33	BOYNERIVER		12303		-1.3	12.453	12.848	13.203
34	BOYNERIVER		12303	Boyne Trib1	-1.3	12.453	12.848	13.203
35	BOYNERIVER	B10.5	12455.4		-1.219	12.313	12.697	13.044
36	BOYNERIVER		12785.4	Machine Ck	-2	11.946	12.308	12.635
37	BOYNERIVER		12785.4		-2	11.946	12.308	12.635
38	BOYNERIVER	B10.2	12874.9		-5.183	11.831	12.185	12.505
39	BOYNERIVER	B9.8	13251.3		-2.052	11.677	11.983	12.263
40	BOYNERIVER	B9.1	13865.9		-3.814	11.026	11.3	11.552
41	BOYNERIVER		14304.56	Wurdong Ck	-3	10.813	11.017	11.208
42	BOYNERIVER		14304.56		-3	10.813	11.017	11.208
43	BOYNERIVER	B8.5	14472.2		-3.39	10.757	10.945	11.12
44	BOYNERIVER	B8.0	14964.2		-4.348	10.492	10.643	10.784
45	BOYNERIVER	B7.55	15341.2		-8.212	10.061	10.176	10.283
46	BOYNERIVER	B7.2	15741.5		-2.008	9.778	9.813	9.844
47	BOYNERIVER		16062.9	O'LBoyne D/S	-2	9.685	9.675	9.662
48	BOYNERIVER		16062.9		-2	9.685	9.675	9.662
49	BOYNERIVER	B6.8	16145.4		-3.303	9.66	9.64	9.616
50	BOYNERIVER	B6.2	16727.9		-1.982	9.223	9.171	9.111
51	BOYNERIVER	B5.55	17358.6		-3.638	8.706	8.67	8.623
52	BOYNERIVER		17722.19	South Trees	-5	7.959	7.95	7.927
53	BOYNERIVER		17722.19		-5	7.959	7.95	7.927
54	BOYNERIVER	B5.0	17874.5		-9.286	7.809	7.799	7.774
55	BOYNERIVER		18184.66	Cattle Ck	-5	7.665	7.653	7.627
56	BOYNERIVER		18184.66		-5	7.665	7.653	7.627
57	BOYNERIVER	B4.5	18476.2		-4.314	7.453	7.441	7.416
58	BOYNERIVER	B4.05	18884.2		-5.69	7.004	6.994	6.97
59	BOYNERIVER	B3.65	19282.4		-4.216	6.862	6.851	6.828
60	BOYNERIVER	B3.15	19869.5		-4.786	6.49	6.48	6.456
61	BOYNERIVER	B2.75	20263.7		-8.132	6.07	6.059	6.038
62	BOYNERIVER	B2.45	20684.6		-7.427	5.683	5.674	5.653
63	BOYNERIVER	B2.25	20866.3		-6.386	5.544	5.535	5.515
64	BOYNERIVER	B1.85	21269.4	John Oxley Bridge	-7.437	5.052	5.044	5.027
65	BOYNERIVER	B1.65	21471.7		-6.99	4.571	4.565	4.551
66	BOYNERIVER	B1.2	21861.2		-6.234	4.241	4.236	4.225
67	BOYNERIVER	B0.9	22251.3		-5.304	3.707	3.703	3.696
68	BOYNERIVER	B0.5	22636		-6.273	2.42	2.42	2.42
69	COOMALCK	C1	0			37.934	38.051	38.162
70	COOMALCK	C2	398.2			33.375	33.375	33.375
71	COOMALCK	C3	794.2			29.676	29.675	29.674
72	COOMALCK	C4	1209.5			26.612	26.612	27.114
73	COOMALCK	C5	1813.3			22.047	22.545	23.417

# BOYNE RIVER

## Dambreak & Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model - Maximum Water Level - (No Bridges Modelled)

#### Sensitivity Analysis - adopted mannings 'n' +/- 10%

#### Comparison of Maximum Flood Heights - FSL55

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	River Bed EL (m) AHD	n - 10%	adopted n	n + 10%
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
74	COOMALCK	C6	2352.8			19.323	19.992	20.547
75	COOMALCK	C7	3112.2			19.322	19.992	20.546
76	COOMALCK	C8	3751.3			19.321	19.992	20.546
77	COOMALCK	C9	4222.5			19.321	19.991	20.546
78	COOMALCK		4305			19.321	19.991	20.546
79	YUNKACK	Y1	0			34.349	34.469	34.582
80	YUNKACK	Y2	574.2			26.836	26.836	26.835
81	YUNKACK	Y3	948.9			22.246	22.246	22.245
82	YUNKACK	Y4	1253.1			19.003	19.003	19.003
83	YUNKACK	Y5	1835.5			16.11	16.664	17.162
84	YUNKACK	Y6	2434.6			16.109	16.664	17.162
85	YUNKACK	Y7	2763			16.109	16.664	17.162
86	TUCKERGULLY		0			36.552	36.659	36.756
87	TUCKERGULLY	TU-1	1066.8			34.579	34.578	34.576
88	TUCKERGULLY	TU-2	1965.8			29.609	29.607	29.605
89	TUCKERGULLY	TU-3	2491.1			26.387	26.385	26.384
90	TUCKERGULLY	TU-4	3217.5			22.057	22.054	22.05
91	TUCKERGULLY	TU-5	3966.5			20.048	20.766	21.37
92	TUCKERGULLY	TU-6	4522.1			20.04	20.762	21.368
93	TUCKERGULLY	TU-7	5384.2	Awoonga Dam Road Xing		20.039	20.761	21.367
94	TUCKERGULLY		5765.4	Tucker Trib		20.039	20.761	21.367
95	TUCKERGULLY		5765.4			20.039	20.761	21.367
96	TUCKERGULLY	TU-8	6350.1			20.038	20.761	21.366
97	TUCKERGULLY	TU-9	6669			20.038	20.761	21.366
98	TUCKERTRIB		0			30.786	30.815	30.841
99	TUCKERTRIB	T1-1	206.2			30.261	30.261	30.261
100	TUCKERTRIB	T1-2	730.4			27.265	27.265	27.265
101	TUCKERTRIB	T1-3	1416.7			20.311	20.763	21.368
102	TUCKERTRIB	T1-4	1944.8			20.039	20.762	21.368
103	TUCKERTRIB	T1-5	2331.5			20.039	20.762	21.367
104	TUCKERTRIB	T1-6	2914.7	Awoonga Dam Road Xing		20.039	20.762	21.367
105	TUCKERTRIB		3377			20.039	20.761	21.367
106	STATIONCK	S1	0			16.41	16.527	16.643
107	STATIONCK	S2	684.5			14.968	15.135	15.296
108	STATIONCK	S3	1599.7			14.108	14.63	15.103
109	STATIONCK	S4	2431.3			14.1	14.626	15.101
110	STATIONCK	S5	3013.7			14.1	14.626	15.1
111	STATIONCK	S6	3734.9	Bruce H'way		14.099	14.625	15.1
112	STATIONCK	S7	4481.7			14.099	14.625	15.1
113	STATIONCK	S8	5140.8			14.099	14.625	15.1
114	STATIONCK	S9	5918.9			14.098	14.624	15.099
115	STATIONCK	S10	6575.5			14.098	14.624	15.099
116	STATIONCK		6954.4	O'LStation D/S		14.097	14.624	15.098
117	STATIONCK		6954.4			14.097	14.624	15.098
118	STATIONCK	S11	7691			14.092	14.617	15.09
119	MACHINECK	M1	0			34.116	34.203	34.286
120	MACHINECK	M2	726.3			29.313	29.313	29.312
121	MACHINECK	M3	1186.8			27.094	27.093	27.093
122	MACHINECK	M4	1699.1			23.599	23.598	23.598
123	MACHINECK	M5	2214.8			21.158	21.158	21.158
124	MACHINECK	M6	2730.6			17.549	17.549	17.549
125	MACHINECK	M7	3140.9			15.538	15.538	15.538
126	MACHINECK	M8	3611.9			13.26	13.259	13.259
127	MACHINECK	M9	4246.8	Road/Rail X-ing		11.948	12.309	12.635
128	MACHINECK	M10	5099.9			11.946	12.308	12.635
129	MACHINECK	M11	5868.4	Bruce H'way 100m U/S		11.946	12.308	12.635
130	MACHINECK	M12	6711			11.946	12.308	12.635
131	O'LSATION		0			15.1	15.63	16.09
132	O'LSATION	O2-1	304.1			15.059	15.573	16.02
133	O'LSATION	O2-2	1252.2			14.839	15.331	15.778
134	O'LSATION	O2-3	1924.6			14.393	14.936	15.419
135	O'LSATION		2385.5			14.168	14.706	15.189
136	O'LSATION	O2-4	2588	Bruce H'way		14.097	14.624	15.098
137	WURDONGCK	W1	0			26.524	26.598	26.671
138	WURDONGCK	W2	616.4			21.306	21.39	21.47
139	WURDONGCK	W3	1311.6			16.115	16.239	16.36
140	WURDONGCK	W4	1752.9			13.598	13.745	13.885
141	WURDONGCK	W5	2482.5	GLD/Benaraby Rd		10.813	11.018	11.208
142	WURDONGCK	W6	3446.5			10.813	11.018	11.208
143	WURDONGCK	W7	4664			10.813	11.017	11.208
144	BOYNETRIB1	T2-1	0			24.02	24.036	24.05
145	BOYNETRIB1	T2-2	573.1			16.242	16.242	16.242
146	BOYNETRIB1	T2-3	1368.3			12.453	12.847	13.203

# BOYNE RIVER

## Dambreak & Flood Modelling Study

### Feature: 1 in 100 AEP Flood Model - Maximum Water Level - (No Bridges Modelled)

#### Sensitivity Analysis - adopted mannings 'n' +/- 10%

#### Comparison of Maximum Flood Heights - FSL55

No.	River/Branch Name	Cross Section ID	Cross Section Distance	Locations	River Bed EL (m) AHD	n - 10%	adopted n	n + 10%
						Max Water Level (m) AHD	Max Water Level (m) AHD	Max Water Level (m) AHD
147	BOYNETRIB1	T2-4	1848.2	Bruce H'way 75m D/S		12.453	12.848	13.203
148	BOYNETRIB1	T2-5	2194.8			12.453	12.848	13.203
149	BOYNETRIB1	T2-6	2663			12.453	12.848	13.203
150	BOYNETRIB2	T3-1	0			18.318	18.325	18.331
151	BOYNETRIB2	T3-2	381.2			14.526	14.526	14.526
152	BOYNETRIB2	T3-3	713.6			12.816	13.243	13.627
153	BOYNETRIB2	T3-4	1247.1			12.816	13.244	13.627
154	BOYNETRIB2	T3-5	1804			12.816	13.243	13.627
155	O'LANDBOYNE		0			12.816	13.243	13.627
156	O'LANDBOYNE	O3-1	462.1			11.122	11.43	11.716
157	O'LANDBOYNE	O3-2	843.9			10.503	10.643	10.768
158	O'LANDBOYNE	O3-3	1492.5			9.748	9.745	9.737
159	O'LANDBOYNE		1924.31	O'Land01 U/S		9.687	9.678	9.666
160	O'LANDBOYNE		1924.31			9.687	9.678	9.666
161	O'LANDBOYNE	O3-4	2032			9.685	9.675	9.662
162	O'LAND01		0			9.687	9.678	9.666
163	O'LAND01	O4-01	415.3			9.529	9.499	9.465
164	O'LAND01	O4-02	1018.8			9.127	9.102	9.074
165	O'LAND01	O4-03	1360.2			8.58	8.554	8.521
166	O'LAND01	O4-04	1988.3			8.062	8.039	8.004
167	O'LAND01	O4-05	2586.5			7.886	7.866	7.834
168	O'LAND01	O4-06	3091			7.729	7.714	7.686
169	CATTLECK	CC1	0	Tannum Sands Rd 50m D/S		7.874	7.928	7.981
170	CATTLECK	CC2	743.6			7.729	7.714	7.686
171	CATTLECK	CC3	1293.1			7.729	7.714	7.686
172	CATTLECK		1994.43	O'Land01 D/S		7.729	7.714	7.686
173	CATTLECK		1994.43			7.729	7.714	7.686
174	CATTLECK	CC4	2124.8			7.701	7.688	7.66
175	CATTLECK		2335			7.665	7.653	7.627
176	STHTREES	ST1	0	Sth Trees/Boyne R. Bifurcate		7.959	7.95	7.927
177	STHTREES	ST2	851.8			6.782	6.646	6.512
178	STHTREES	ST3	1579.6	Boyne Is. Rd Bridge		6.41	6.264	6.13
179	STHTREES	ST4	2361.3			6.143	5.997	5.862
180	STHTREES	ST5	2829.5			6.052	5.906	5.771
181	STHTREES	ST6	3773.5			5.898	5.749	5.612
182	STHTREES	ST7	4171.6			5.828	5.68	5.542
183	STHTREES	ST8	4595.4			5.705	5.558	5.42
184	STHTREES		5122.39	Ten Mile Ck		5.537	5.393	5.258
185	STHTREES		5122.39			5.537	5.393	5.258
186	STHTREES	ST9	5493.4			5.42	5.279	5.149
187	STHTREES	ST10	6390.9			4.596	4.477	4.371
188	STHTREES	ST11	7658.8			3.789	3.7	3.62
189	STHTREES		8251.05	Eleven Mile Ck		3.717	3.63	3.553
190	STHTREES		8251.05			3.717	3.63	3.553
191	STHTREES	ST12	9287.1			3.541	3.463	3.394
192	STHTREES	ST13	11258.1			3.153	3.098	3.049
193	STHTREES	ST14	12688.1			2.875	2.836	2.803
194	STHTREES	ST15	14444.9			2.685	2.661	2.64
195	STHTREES	ST16	17478			2.42	2.42	2.42
196	TENMILECK	T4-1	0	Glad/Ben - Boyne Is Intersect		10.412	10.477	10.539
197	TENMILECK	T4-2	510.2			5.537	5.409	5.274
198	TENMILECK	T4-3	1040.5			5.537	5.393	5.262
199	TENMILECK	T4-4	1753.9			5.537	5.393	5.259
200	TENMILECK	T4-5	2298			5.537	5.393	5.258
201	ELEVENMILECK	T5-1	0			13.031	13.083	13.132
202	ELEVENMILECK	T5-2	883.9	Gladstone - Benaraby Rd		5.761	5.761	5.76
203	ELEVENMILECK	T5-3	1811.4			3.717	3.63	3.553
204	ELEVENMILECK	T5-4	3118.2			3.717	3.63	3.553
205	ELEVENMILECK		3887			3.717	3.63	3.553
206	LITTLEOAKYCK	01-1A	0			17.63	17.674	18.141
207	LITTLEOAKYCK	01-2A	670			17.081	17.638	18.141
208	LITTLEOAKYCK	01-3A	1834			17.081	17.638	18.141
209	LITTLEOAKYCK		1958			17.081	17.637	18.141