



WorleyParsons

resources & energy

EcoNomics[™]

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE

HYDROLOGIC AND HYDRAULIC MODELLING REPORT: MARY RIVER (MAR)

APPENDIX D: MODELLING QUALITY REPORT

COPYRIGHT NOTICE



This document, Hydrologic and Hydraulic Modelling - Mary River (MAR), is licensed under the [Creative Commons Attribution 4.0 Licence](#), unless otherwise indicated.

Please give attribution to: © Moreton Bay Regional Council 2016

We also request that you observe and retain any notices that may accompany this material as part of the attribution.

Notice Identifying Other Material and/or Rights in this Publication:

The author of this document has taken steps to both identify third-party material and secure permission for its reproduction and reuse. However, please note that where these materials are not licensed under a Creative Commons licence or similar terms of use, you should obtain permission from the rights holder to reuse their material beyond the ways you are permitted to use them under the [Copyright Act 1968](#). Where third party material is used, this has been identified within the document. Please also see the Table of References.

Further Information

For further information about the copyright in this document, please contact:

Moreton Bay Regional Council

PO Box 159

CABOOLTURE QLD 4510

Email: mbrc@moretonbay.qld.gov.au

Phone: (07) 3205 0555

DISCLAIMER

The [Creative Commons Attribution 4.0 Licence](#) contains a Disclaimer of Warranties and Limitation of Liability. In addition: **This flood study and its associated models and data were produced by Worley Parsons for Moreton Bay Regional Council only. The views expressed in the study are those of the author(s) alone, and do not necessarily represent the views of the Moreton Bay Regional Council. Reuse of this study or its associated data by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based upon the contents of this document.**



TECHNICAL NOTE

DATE 10 July 2010

TO Moreton Bay Regional Council

FROM Leonard Cheung

COPY

PROJECT 301001-01156

SUBJECT Mary River Modelling Quality Report

DOC NO

FILE LOC

INTRODUCTION

A detailed TUFLOW model of the Mary River (MAR) minor basin has been developed as part of Moreton Bay Regional Council's (MBRC) Regional Floodplain Database (RFD) Stage 2 project.

This technical note is prepared to demonstrate that the performance of the NEU model is suitable for the intended use and the associated model outputs can be adopted by MBRC for the RFD to deliver reliable flood information across the Mary River minor basin.

MODEL PERFORMANCE

Model stability, warning messages and mass errors were monitored throughout model simulation periods to ensure that the model performance was acceptable. Careful attention has been paid to ensure that flows over the 2D domain were stable during model simulation period.

Overland flow hydrographs were checked at key locations and especially at the areas near the downstream boundaries (PO lines) to ensure the simulation extended well beyond the peak throughout the MAR study area.

To demonstrate there are no significant loss or gain of flood volumes during model runs, a check of the mass balance of the flood volumes for the two selected critical durations of the 10Yr, 100Yr ARI and PMF flood events has been undertaken and presented in the following Table 1.



Table 1: Mass Balance Check

Event	10Yr ARI		100Yr ARI		PMF	
	60M	120M	60M	120M	60M	120M
Critical Duration	60M	120M	60M	120M	60M	120M
Volume at Start (m3)	5339	5339	5339	5339	5339	5339
Volume at End (m3)	1789694	1481931	2286890	1925088	4583577	9680677
Total Volume In (m3)	4127635	5863975	6521171	9267453	31550614	45651573
Total Volume Out (m3)	2321503	4350295	4187065	7274454	26731359	35879365
Volume Error (m3)	-21777	-37088	-52554	-73250	-241017	-96870
Final Cummulative ME (%)	-0.34%	-0.36%	-0.49%	-0.44%	-0.41%	-0.12%

The above table shows that there are no significant loss and gain of flood volume during the modelling and the mass balance errors are within the range of -0.44% to -0.12% for the critical duration runs of the three design events.

CONCLUSIONS

The quality of the MAR model run has been reviewed. It is considered that the overall model performance is suitable for the intended use and the associated model outputs can be adopted for the MBRC RFD to deliver reliable flood information across the Mary River minor basin.



WorleyParsons

resources & energy

EcoNomics™

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE

HYDROLOGIC AND HYDRAULIC MODELLING REPORT: MARY RIVER (MAR)

APPENDIX E: FLOOD MAPS – 100 YEAR ARI

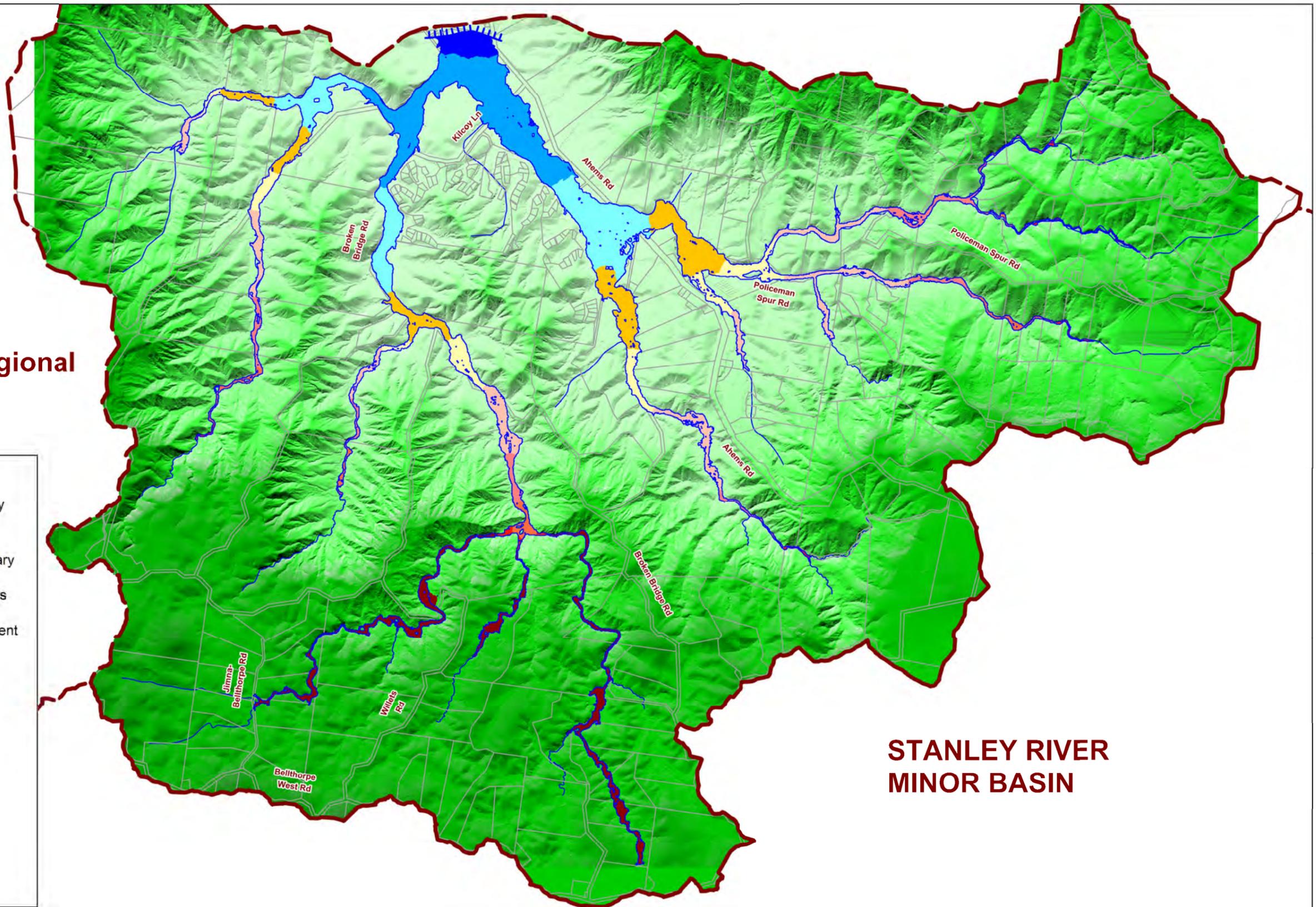
Somerset Regional Council

LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 yr ARI Flood Extent

Flood Level (mAHD)

-  < 160
-  160 to 170
-  170 to 180
-  180 to 190
-  190 to 200
-  200 to 225
-  225 to 250
-  250 to 300
-  300 to 350
-  >350



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to the information. Data is Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of pocket) to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy							

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE E1 PEAK FLOOD LEVEL MAP - 100 YEAR ARI

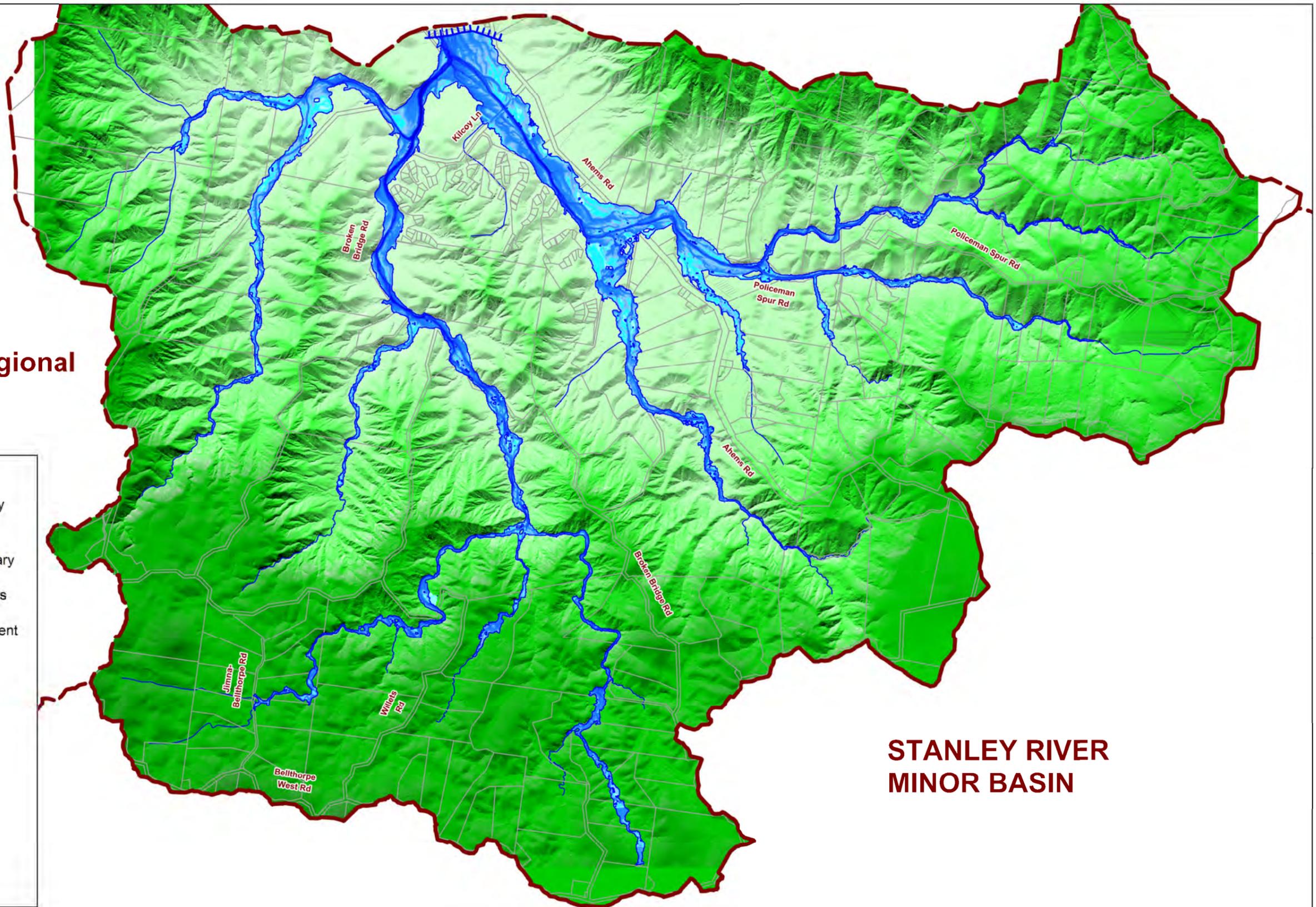
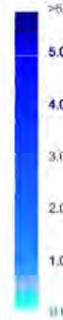
Project No: 301001-01156 Figure:301001-01156-EN-DAL-0142 Rev: 0

Somerset Regional Council

LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 yr ARI Flood Extent

Flood Depth (m)



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of pocket) related to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE E2 PEAK FLOOD DEPTH MAP - 100 YEAR ARI

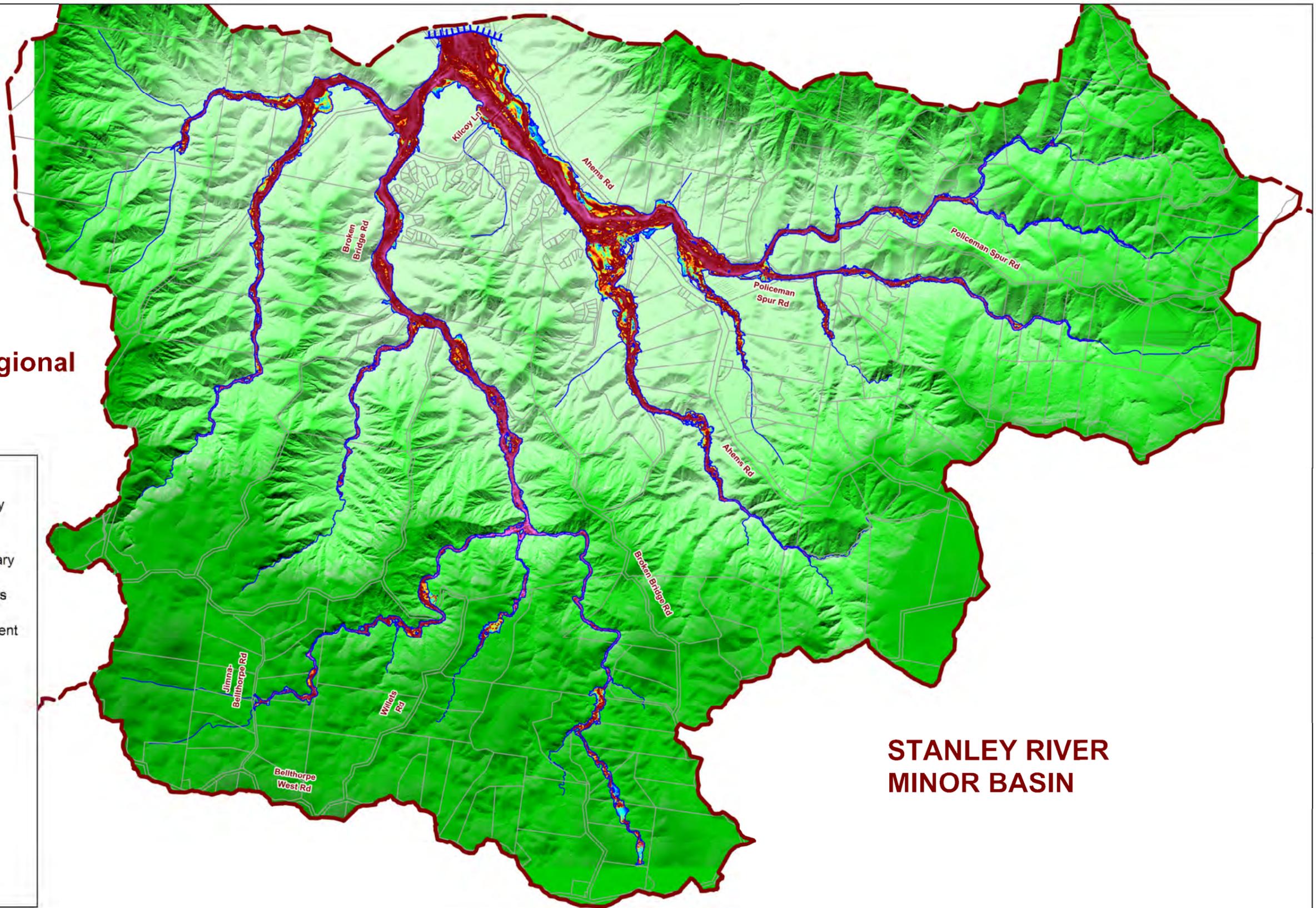
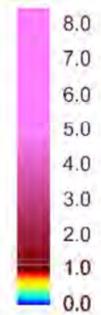
Project No: 301001-01156 Figure:301001-01156-EN-DAL-0143 Rev: 0

Somerset Regional Council

LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 yr ARI Flood Extent

Flood Velocity (m/s)



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts, NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of pocket) related to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
							

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE E3 PEAK FLOOD VELOCITY MAP - 100 YEAR ARI

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0144 Rev: 0

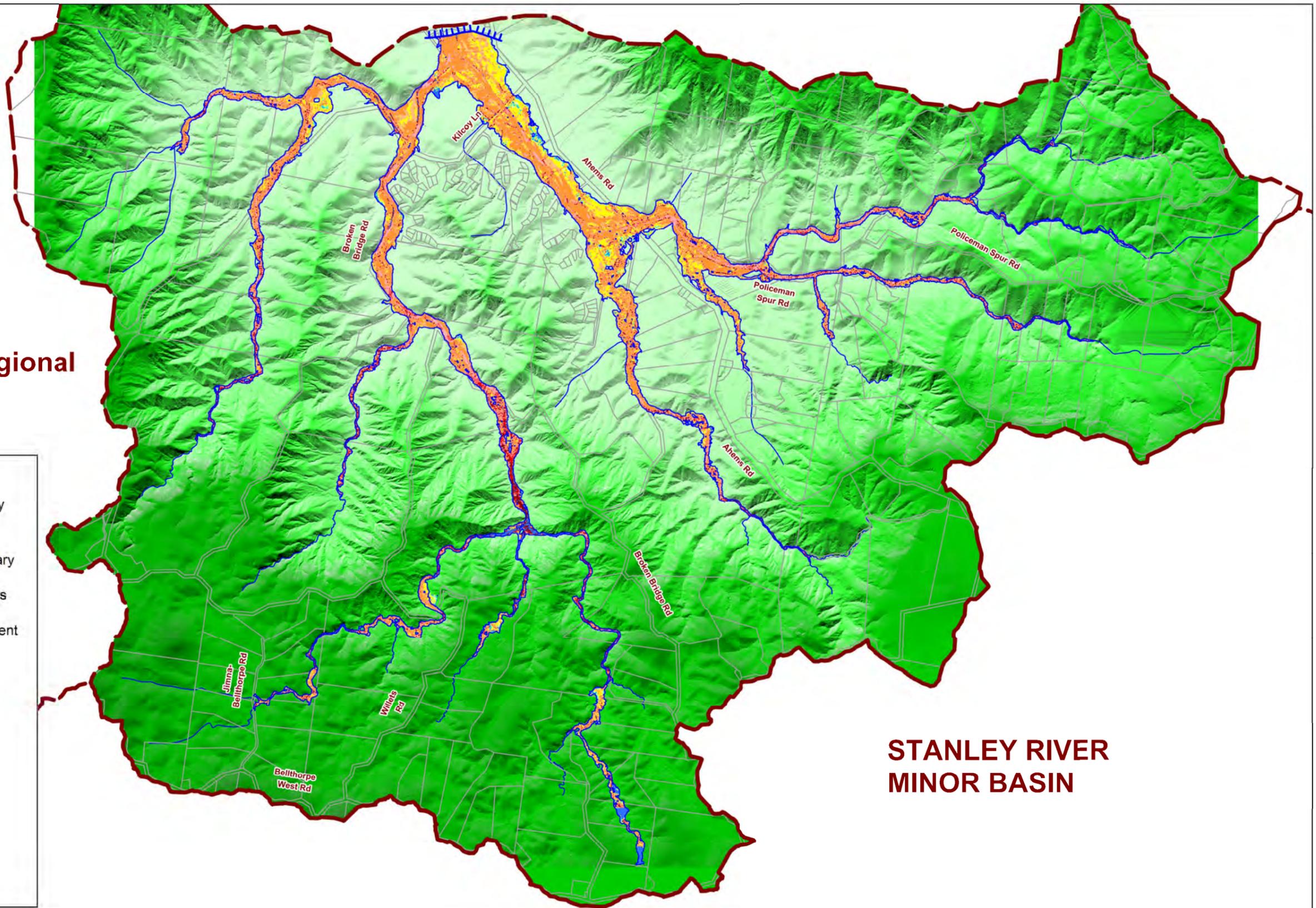
Somerset Regional Council

LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 yr ARI Flood Extent

Stream Power (Watt/m²)

-  0 to 1
-  1 to 3
-  3 to 5
-  5 to 10
-  10 to 50
-  50 to 100
-  100 to 500
-  500 to 1000
-  1000 to 2000
-  2000 to 5000
-  > 5000



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts, NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE E4 PEAK STREAM POWER MAP - 100 YEAR ARI

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0145 Rev: 0

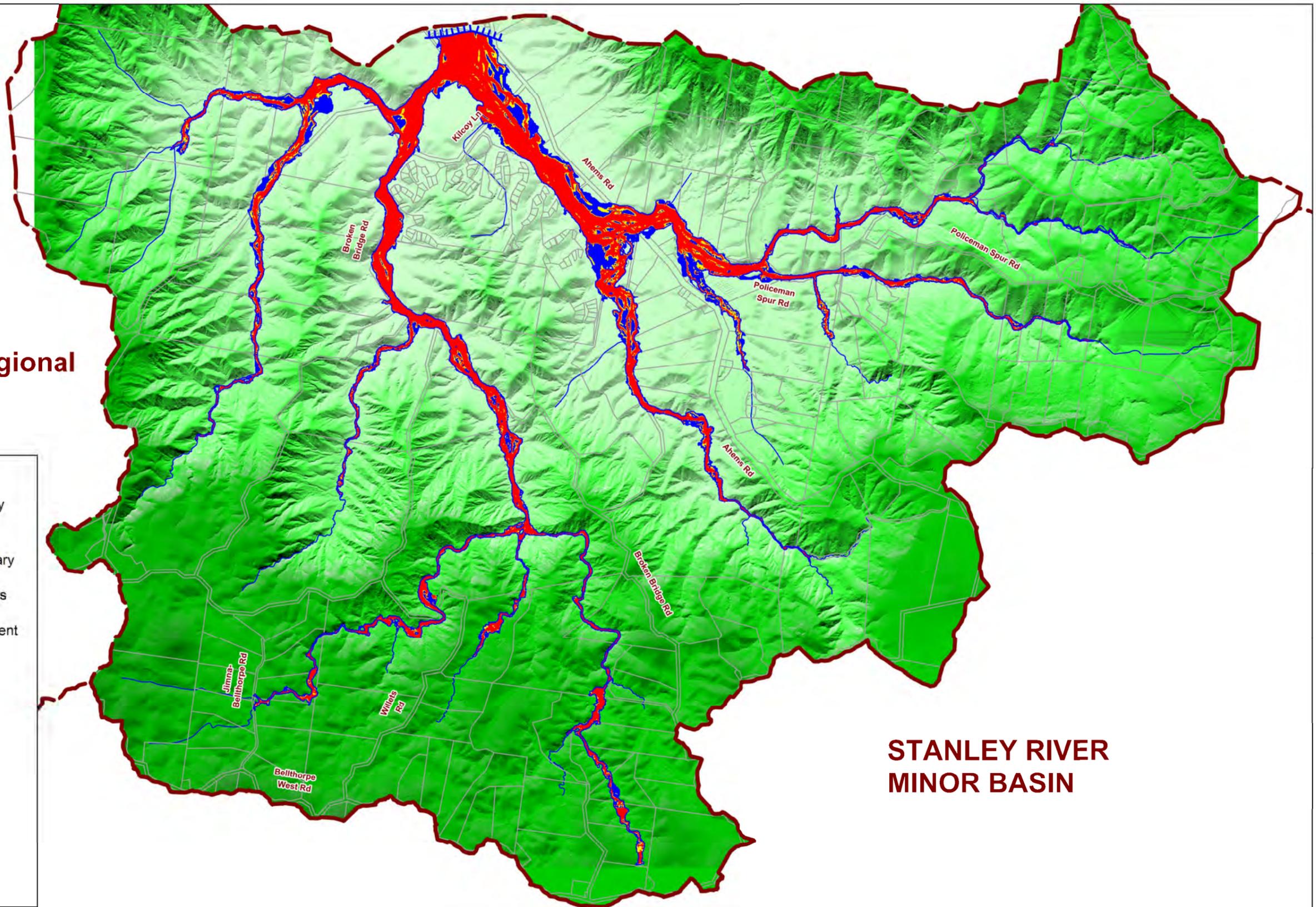
Somerset Regional Council

LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 yr ARI Flood Extent

New South Wales Floodplain Development Manual Flood Hazard Category

-  Low Hazard
-  Intermediate
-  High Hazard



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is Department of Natural Resources and Water (NRW)'s best efforts, NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of pocket) related to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE E5 PEAK FLOOD HAZARD MAP - 100 YEAR ARI

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0146 Rev: 0



APPENDIX F: MODEL SENSITIVITY ANALYSIS MAPS

Somerset Regional Council

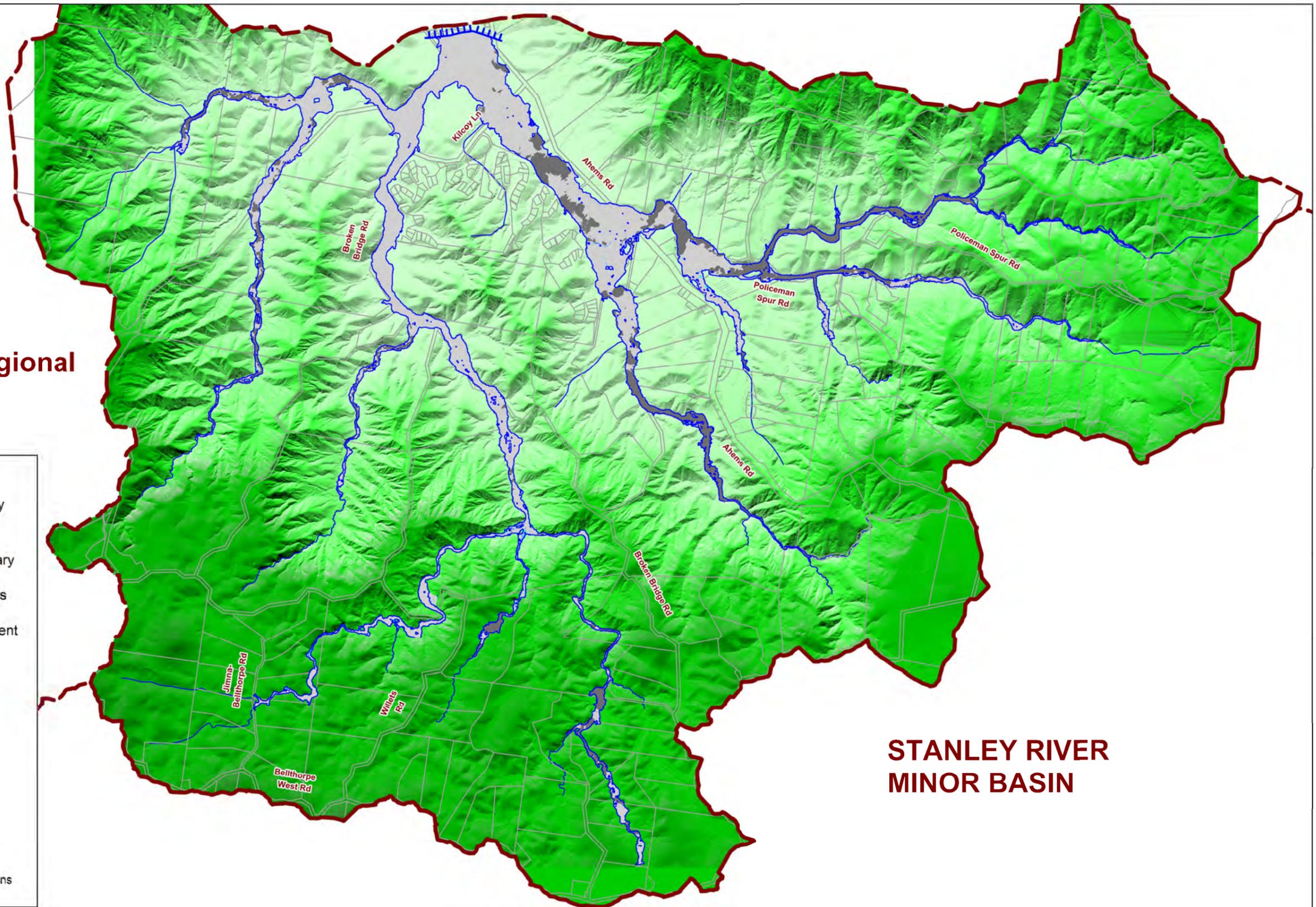
LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 yr ARI Flood Extent

Peak Flood Level Difference* (m)

-  < -0.50
-  -0.50 to -0.40
-  -0.40 to -0.30
-  -0.30 to -0.20
-  -0.20 to -0.10
-  -0.10 to -0.05
-  -0.05 to 0.05
-  > 0.05

*Peak flood levels from 100 Yr EDS (S1) minus peak levels from selected 100 Yr ARI critical durations



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
							

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE F1 FLOOD LEVEL DIFFERENCE BETWEEN EDS AND SELECTED CRITICAL STORM DURATIONS - 100 YR ARI (S1)

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0147 Rev: 0

Somerset Regional Council

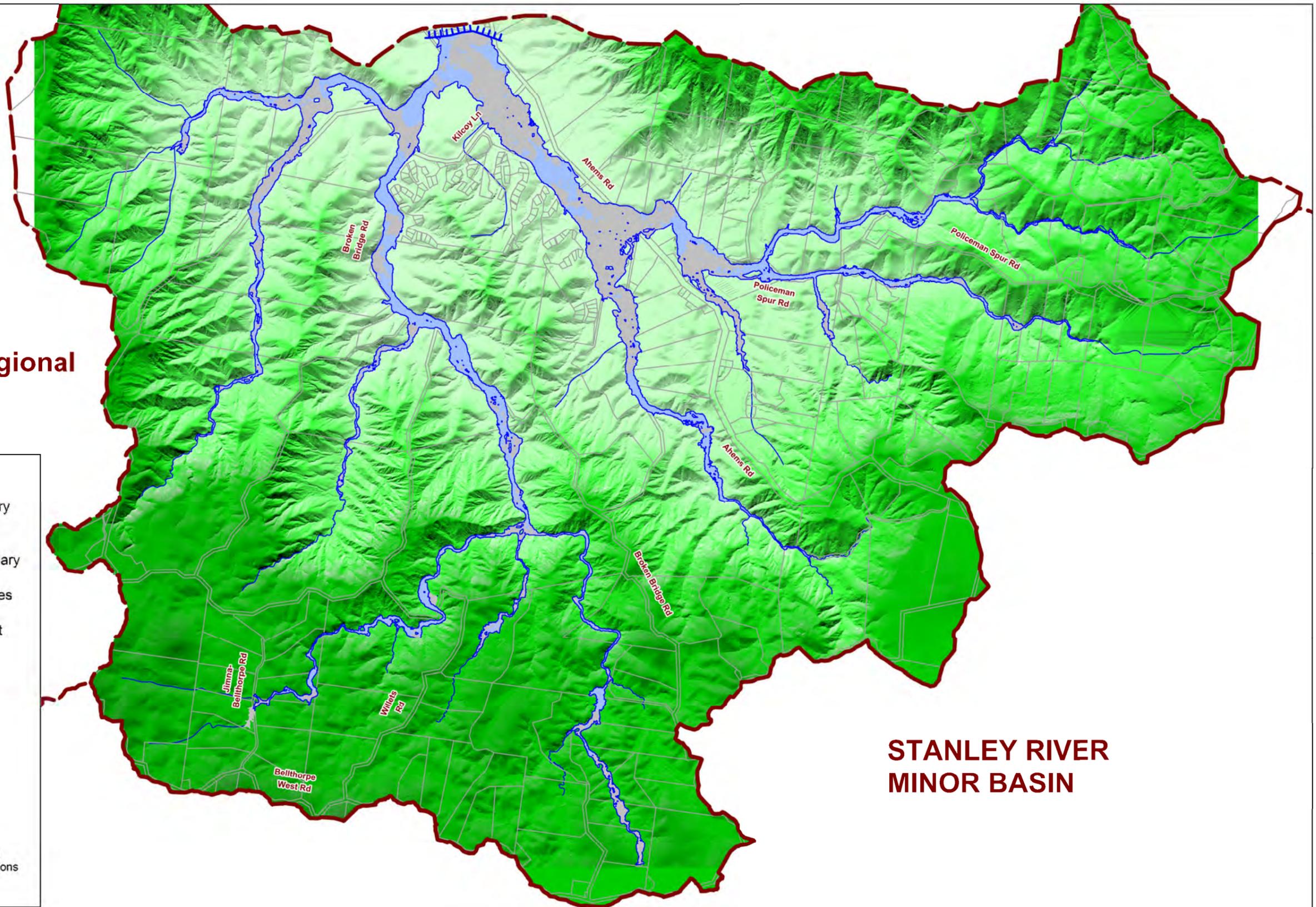
LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 Yr Flood Extent

Peak Flood Level Difference* (m)

-  < -0.50
-  -0.50 to -0.10
-  -0.10 to 0.10
-  0.10 to 0.50
-  > 0.50
-  Was dry now wet
-  Was wet now dry

*Peak flood levels from 100 Yr EDS (S1) minus peak levels from selected 100 Yr ARI critical durations



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE F2 INCREASE IN ROUGHNESS FLOOD LEVEL IMPACT - 100 YEAR EDS (S2)

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0148 Rev: 0

Somerset Regional Council

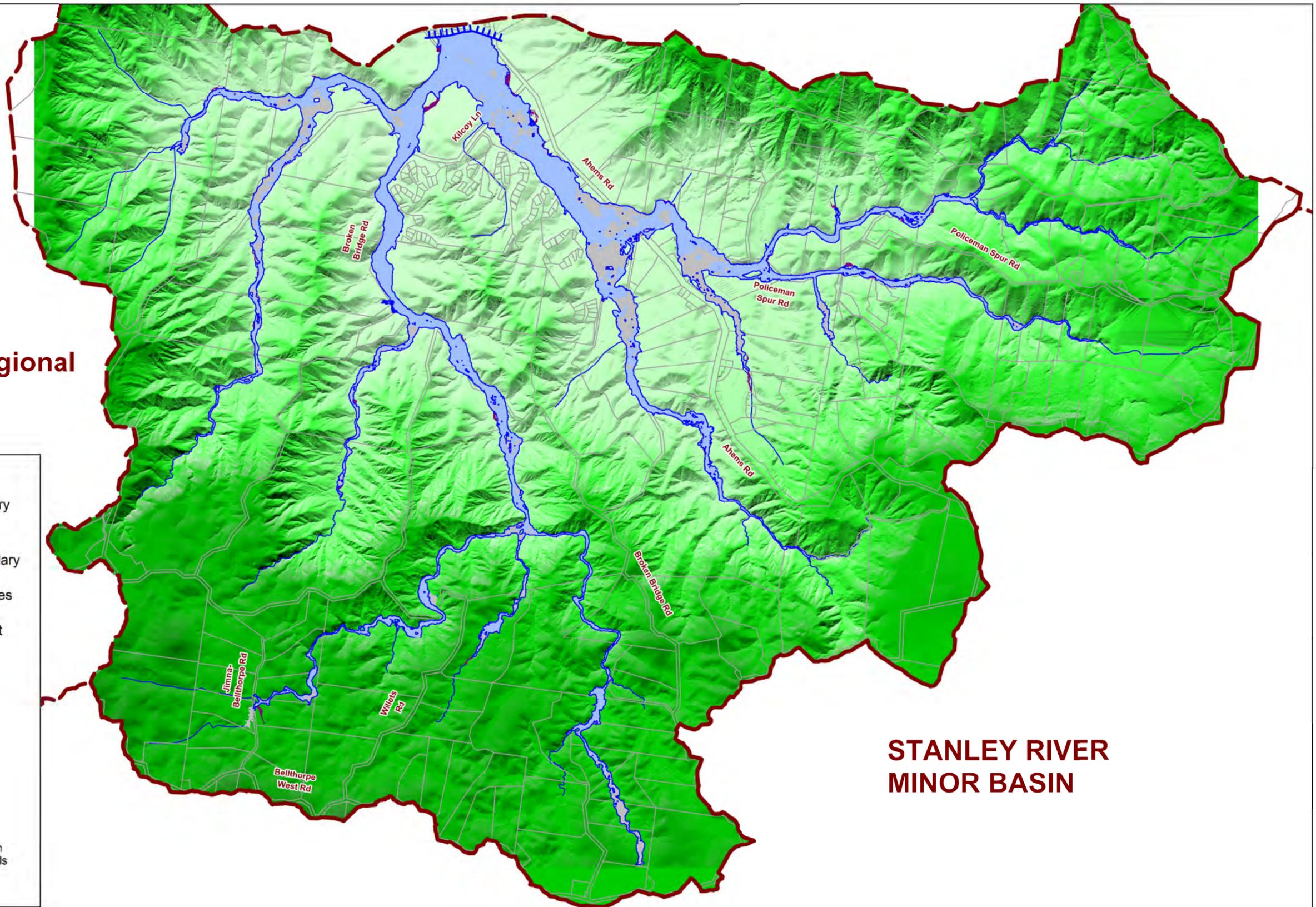
LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 Yr Flood Extent

Peak Flood Level Difference* (m)

-  < -0.50
-  -0.50 to -0.10
-  -0.10 to 0.10
-  0.10 to 0.50
-  0.50 to 1.00
-  > 1.00
-  Was dry now wet
-  Was wet now dry

*Peak flood levels from increase in rainfall (S4) minus peak flood levels from 100 Yr EDS (S1)



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts, NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL		
REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)		
MARY RIVER		
FIGURE F4 INCREASE IN RAINFALL FLOOD LEVEL		
IMPACT - 100 EDS (S4)		
Project No: 301001-01156	Figure: 301001-01156-EN-DAL-0149	Rev: 0

Somerset Regional Council

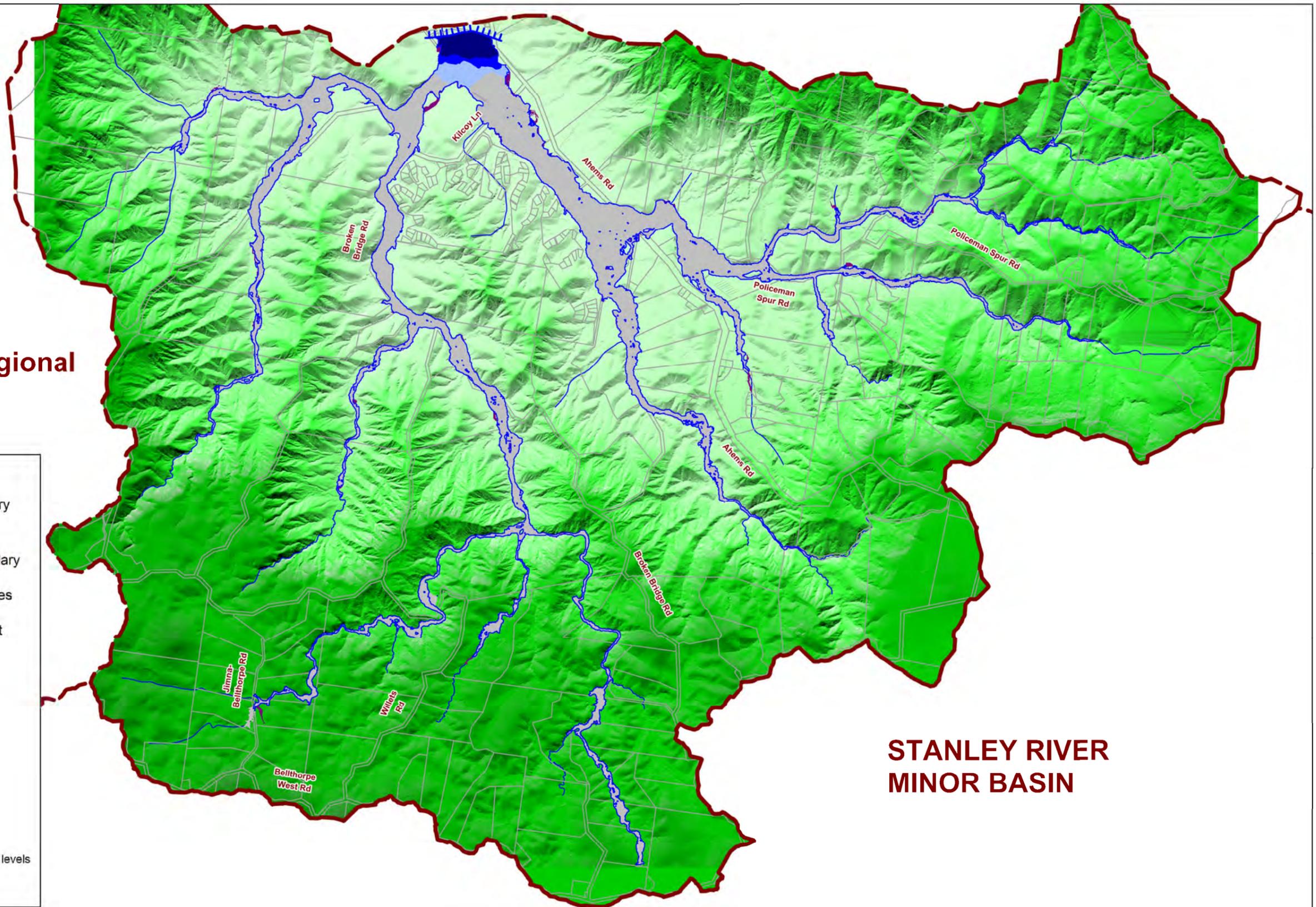
LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 Yr Flood Extent

Peak Flood Level Difference* (m)

-  < -0.50
-  -0.50 to -0.10
-  -0.10 to 0.10
-  0.10 to 0.50
-  0.50 to 1.00
-  > 1.00
-  Was dry now wet
-  Was wet now dry

*Peak flood levels from increase in tailwater level (S5) minus peak flood levels from 100 Yr EDS (S1)



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE F5 INCREASE IN TAILWATER LEVEL FLOOD LEVEL IMPACT - 100 EDS (S5)

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0150 Rev: 0

Somerset Regional Council

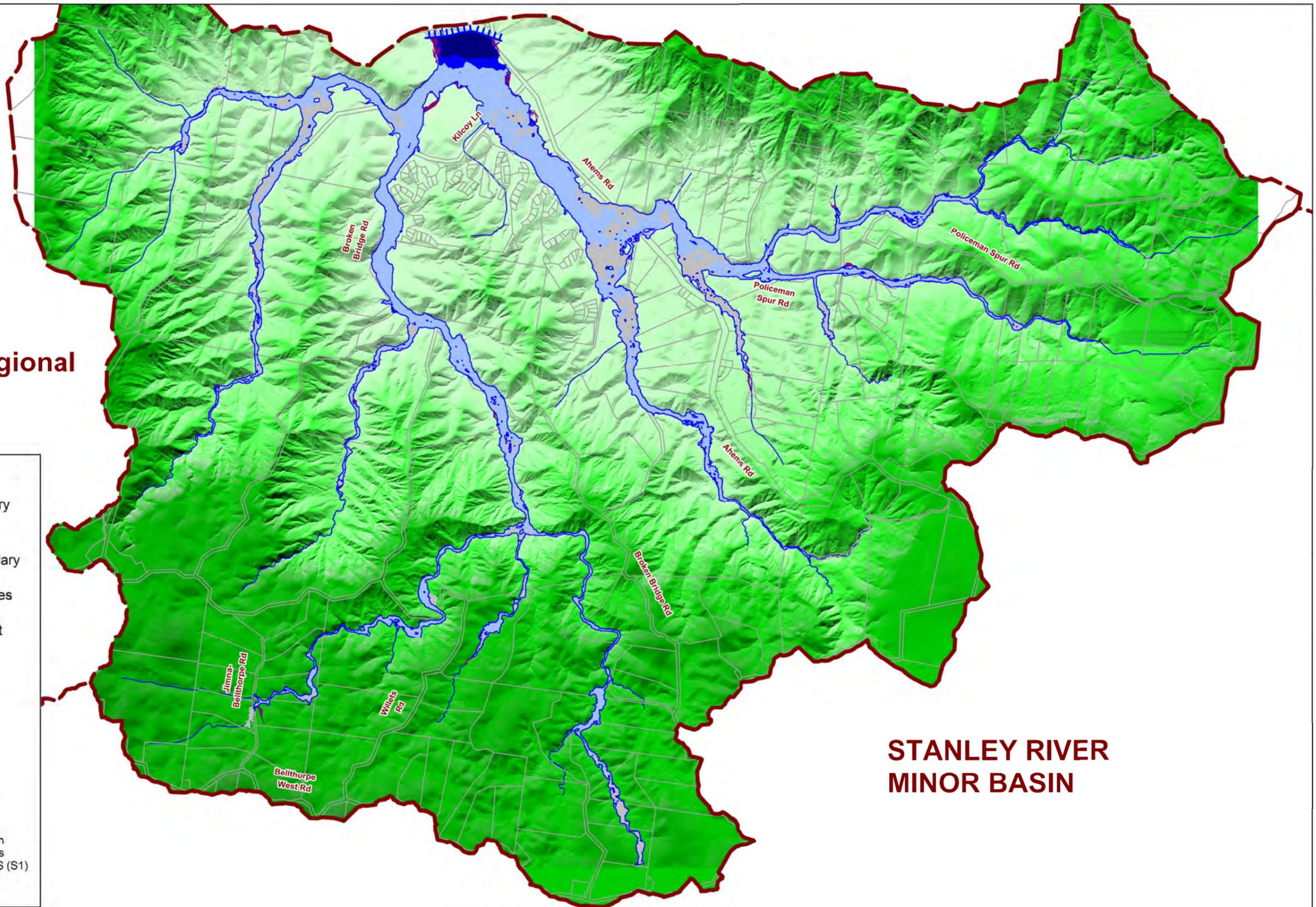
LEGEND

-  Catchment Boundary
-  Stream Reaches
-  Downstream Boundary
-  Cadastral Boundaries
-  100 Yr Flood Extent

Peak Flood Level Difference* (m)

-  < -0.50
-  -0.50 to -0.10
-  -0.10 to 0.10
-  0.10 to 0.50
-  0.50 to 1.00
-  > 1.00
-  Was dry now wet
-  Was wet now dry

*Peak flood levels from increase in rainfall & tailwater level (S6) minus peak flood levels from 100 Yr EDS (S1)



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

0 1000 2000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
 Geocentric Datum of Australia 1994



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy			 Moreton Bay Regional Council				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE F6 INCREASE IN RAINFALL & TAILWATER LEVEL FLOOD LEVEL IMPACT - 100 EDS (S5)

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0151 Rev: 0

Somerset Regional Council

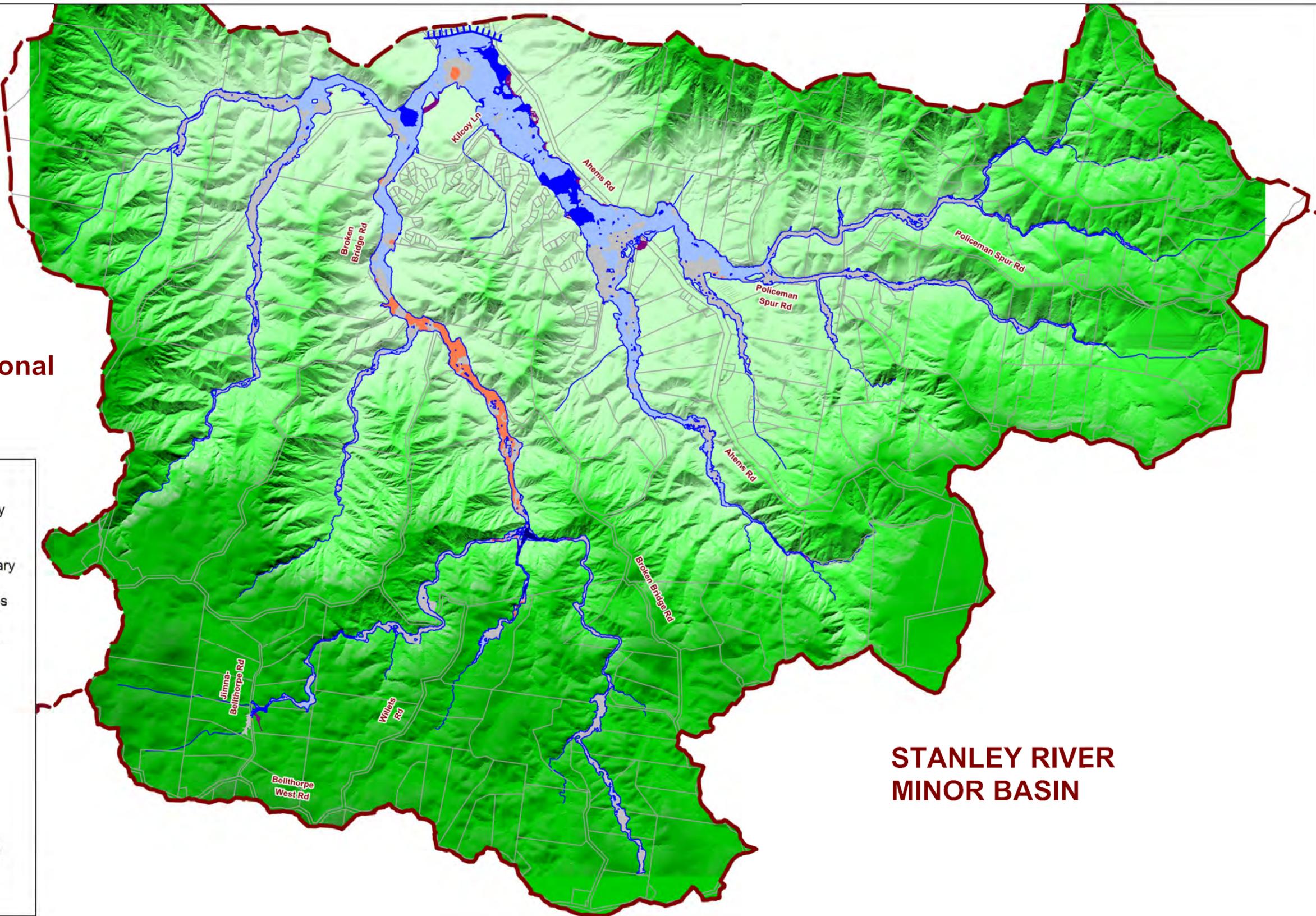
LEGEND

- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 Yr Flood Extent

Peak Flood Level Difference* (m)

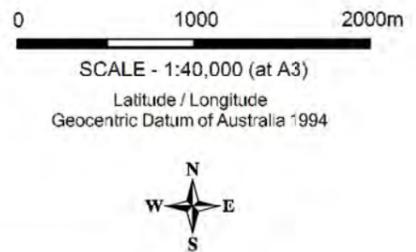
- < -0.50
- 0.50 to -0.10
- 0.10 to 0.10
- 0.10 to 0.50
- 0.50 to 1.00
- > 1.00
- Was dry now wet
- Was wet now dry

*Peak flood levels from increase in vegetation (S10) minus peak flood levels from 100 Yr EDS (S1)



STANLEY RIVER MINOR BASIN

This map incorporates data which is:
 © The State of Queensland (Department of Natural Resources and Water) 2009
 Users of the information recorded in this document (the information) accept all responsibility and risk associated with the use of the information and shall seek independent professional advice in relation to dealing with property. Data is the Department of Natural Resources and Water (NRW)'s best efforts. NRW makes no representations or warranties in relation to the information, and, to the extent permitted by law, exclude or limit all warranties relating to correctness, accuracy, reliability, completeness or currency and all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including out of court) limited to that arising from negligence in connection with any use of or reliance on the information.
 © The State of Queensland (Department of Main Roads) 2009
 While every care is taken to ensure the accuracy of this data, the Corporate Mapping Unit, Main Roads makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.
 © WorleyParsons Services Pty Ltd
 While every care is taken to ensure the accuracy of this data, WorleyParsons makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.



0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD

MORETON BAY REGIONAL COUNCIL		
REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)		
MARY RIVER		
FIGURE F10 INCREASE IN VEGETATION FLOOD LEVEL IMPACT - 100 EDS (S10)		
Project No: 301001-01156	Figure:301001-01156-EN-DAL-0152	Rev: 0