



DRAFT ONLY*

Appendix A

Previously Proposed WSUD Strategies (NOW SUPERSEDED)

Preliminary Stormwater Management Plan – Riverstone
Precinct, Sept 2008

Preliminary Stormwater Management Plan – Alex Avenue
Precinct, Sept 2008

Excerpt from Draft Section 94 Contribution Plan No. 20 –
Riverstone and Alex Avenue Precincts, Nov 2008

* This document is in a draft and not a final issued form. The contents of this draft document including any opinions, conclusions or recommendations contained in or which may be implied from this draft document must not in any way whatsoever be relied upon. GHD reserves the right, at any time with or without notice, to amend, modify or retract any part or all of the draft document including any opinions, conclusions, or recommendations contained therein. Unauthorised use of this draft document in any form whatsoever is strictly prohibited. To the maximum extent permitted by law, GHD disclaims any responsibility for liability howsoever arising from or in connection with this draft document.

FIGURE D.1

LEGEND

- Vegetated Swales
- Wetland/Detention
- Combined Detention/Bio-retention
- On-site stormwater treatment

GENERAL NOTES:

- o Combined Detention/Bio-retention System
 - area includes modelled co-located detention storage area and bio-retention plus allowance for embankments, setback and landscaping
- o On-site stormwater treatment for small areas where basins are not practical
- o Coarse treatment (GPT) to be provided throughout, plus pollution strategies in industrial/commercial areas
- o Positions of basins and weilands to be adjusted to suit riparian corridor requirements
- o Water reuse and stormwater harvesting to be maximised. Rainwater tanks to be promoted in all areas
- o Strategies to be cognisant of salinity and geotechnical/soils issues

North



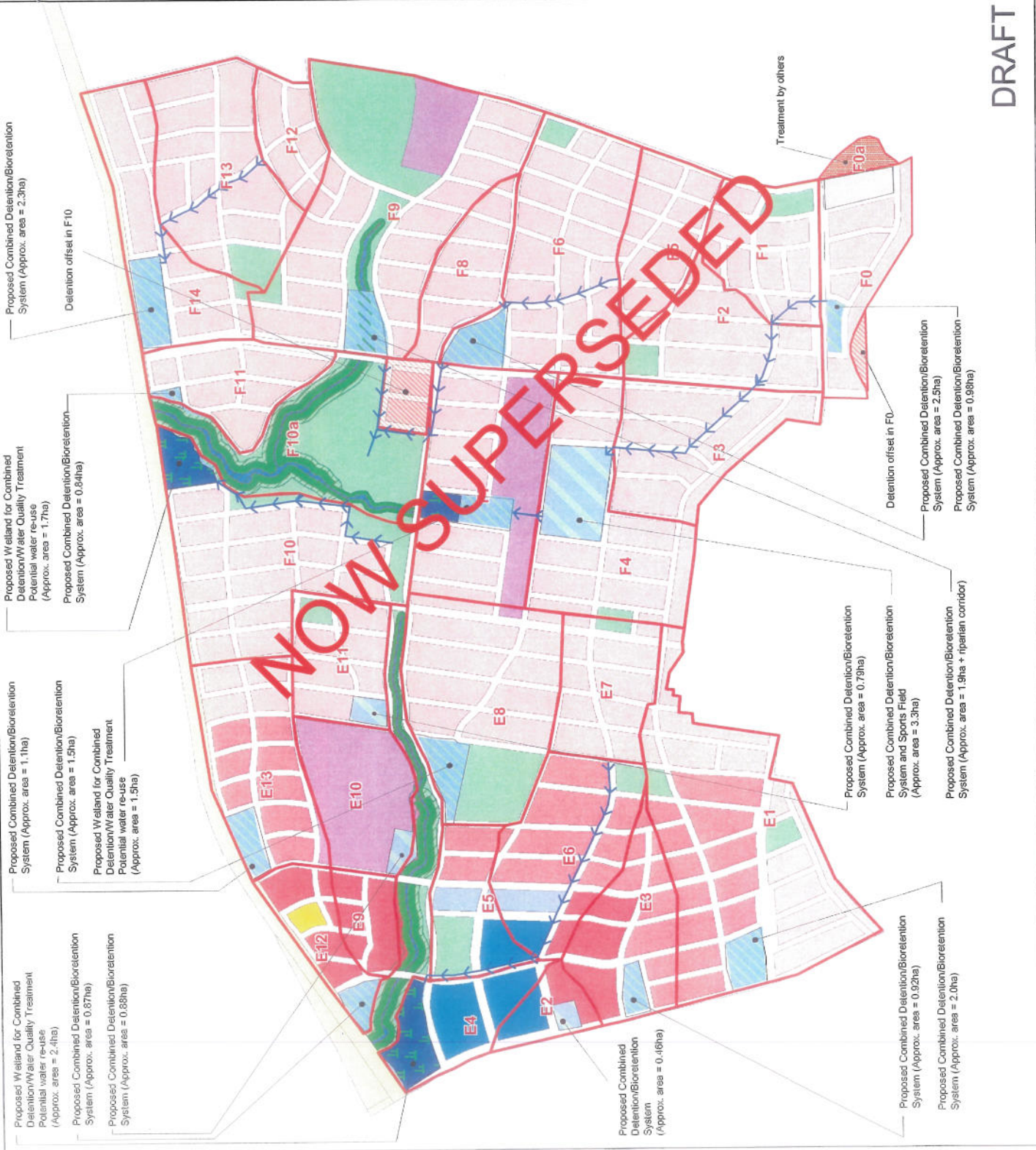
Copyright: This document is and shall remain the property of GHD for the purposes for which it was commissioned and in accordance with the terms of engagement for the commission.
Unauthorised use of this document in any way is prohibited.

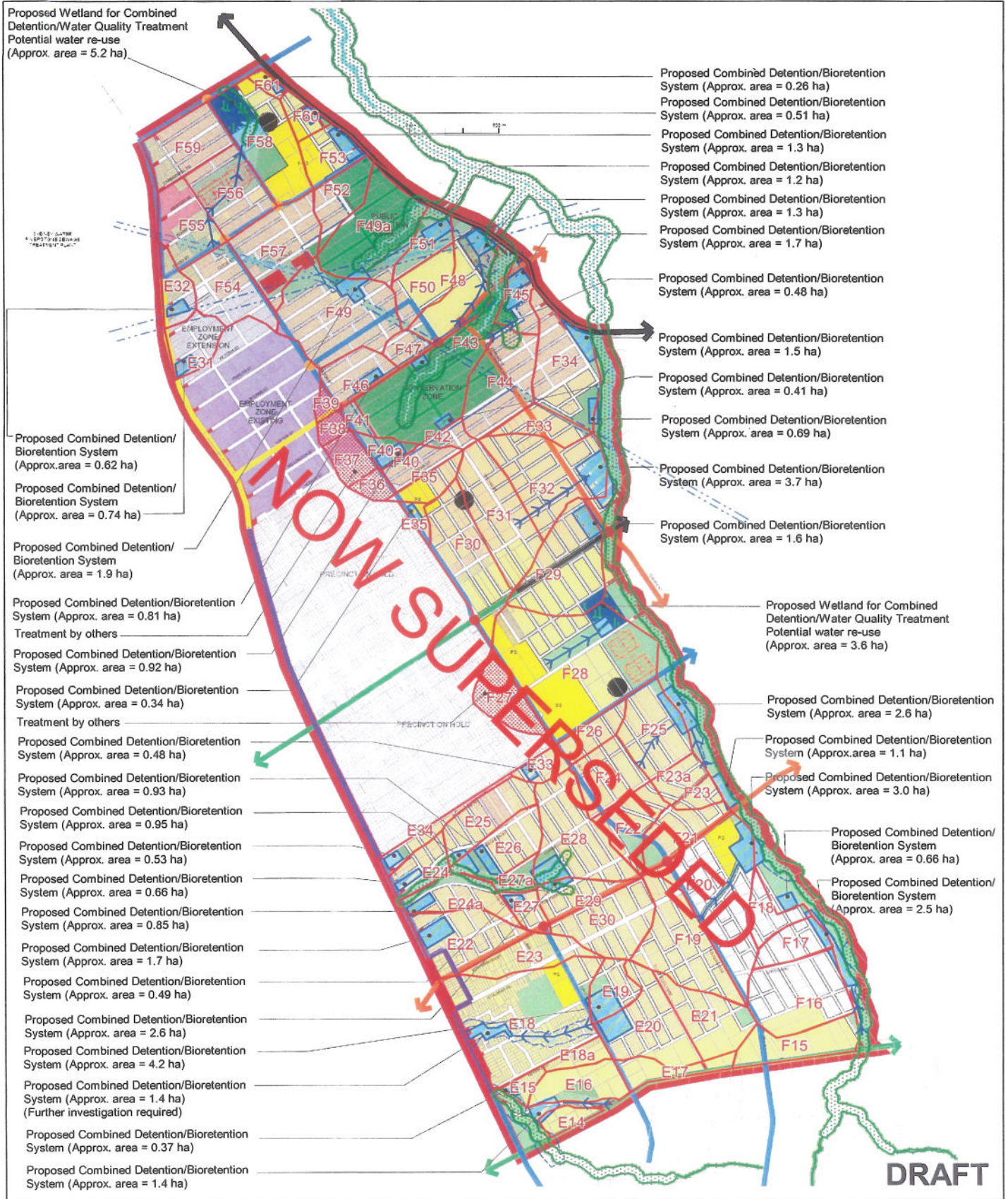
CLIENT: **New South Wales Government**
 PROJECT: **Growth Centres Commission**

Alex Avenue and Riverstone Precincts

TITLE: Alex Avenue WSUD and Detention Strategy

	DESIGNED BY	DATE	REVISION
	G2415717CADD\GIS\MapInfo WORKSPACE\Alex.AV.WSUD_Figure.wpl	17/09/2008	B
	CHECKED	SCALE	NOT TO SCALE
	DATE	SIZE	A3





LEGEND

- On-site Stormwater Treatment
- Detention/Bioretenion Basin
- Stormwater Treatment by others
- Core Riparian Zone and Buffer
- Wetland
- Vegetated Swale

 N	 New South Wales Government Growth Centres Commission	Client Name: Growth Centres Commission Project Name: Alex Avenue and Riverstone Precincts	Job Number: 21-15717 Revision: C Date: September 2008
Map Projection: Universal Transverse Mercator Horizontal Datum: Geocentric Datum of Australia 1994 Grid: Map Gnd of Australia, Zone 56		Riverstone WSUD and Detention Strategy	

Figure D.2

APPENDIX A 2 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
First Ponds Creek Catchment**



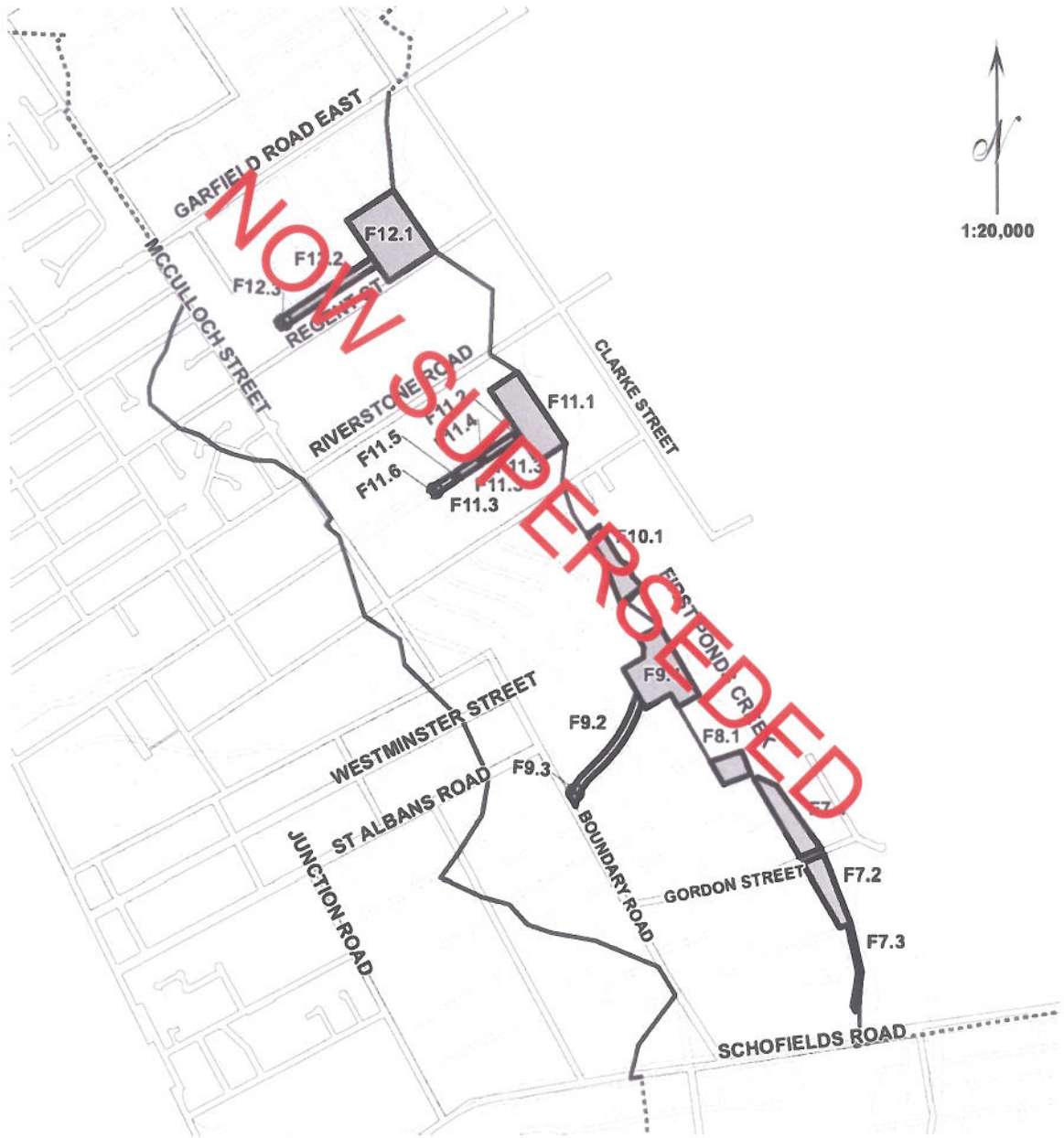
Catchment Areas indicative only

Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA First Ponds Creek Riverstone & Alex Avenue Precincts Sheet 1 of 4</p>
---	---

APPENDIX A 3 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
First Ponds Creek Catchment**



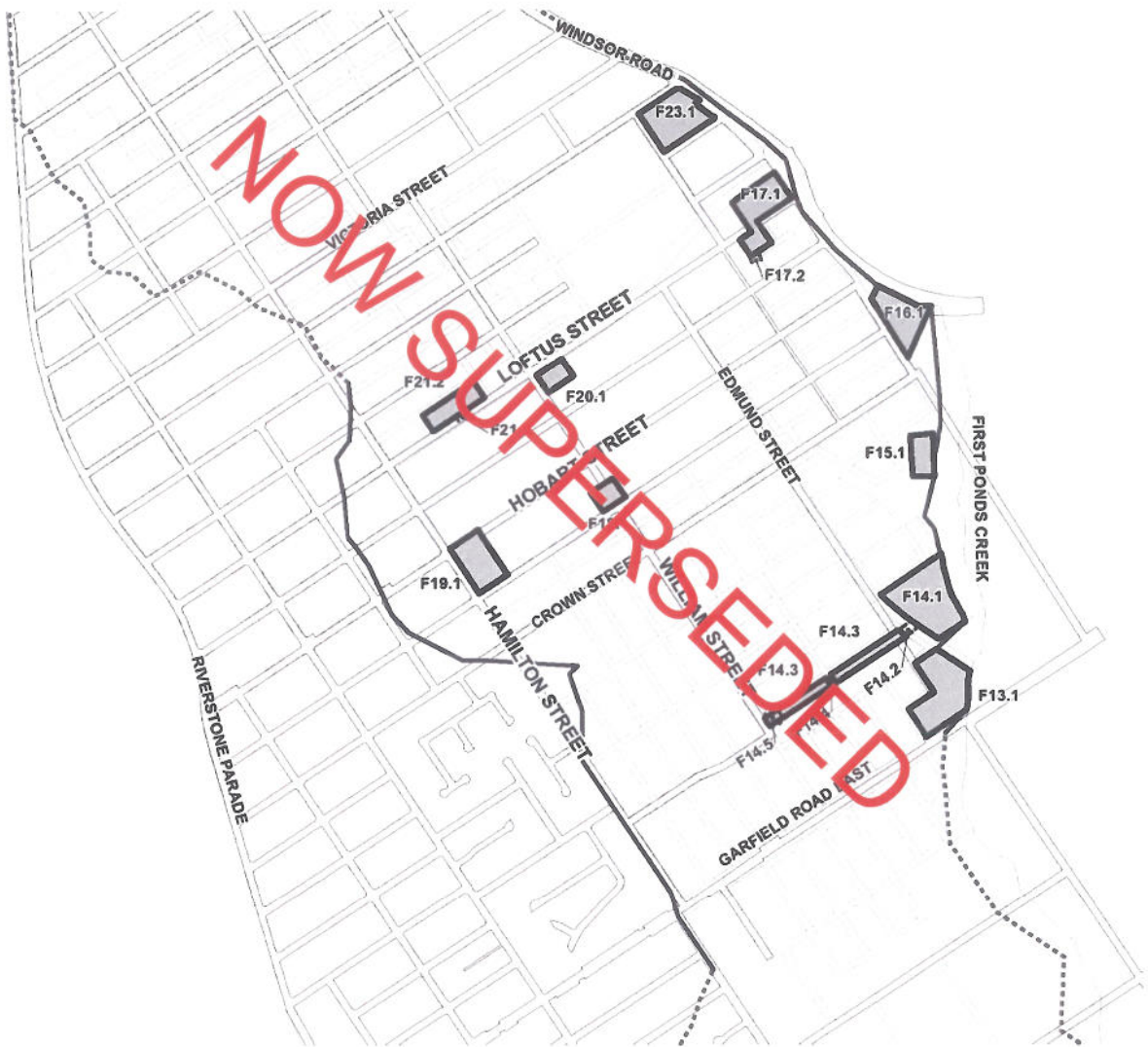
Catchment Areas indicative only

Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA First Ponds Creek Riverstone & Alex Avenue Precincts Sheet 2 of 4</p>
---	---

APPENDIX A 4 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
First Ponds Creek Catchment**



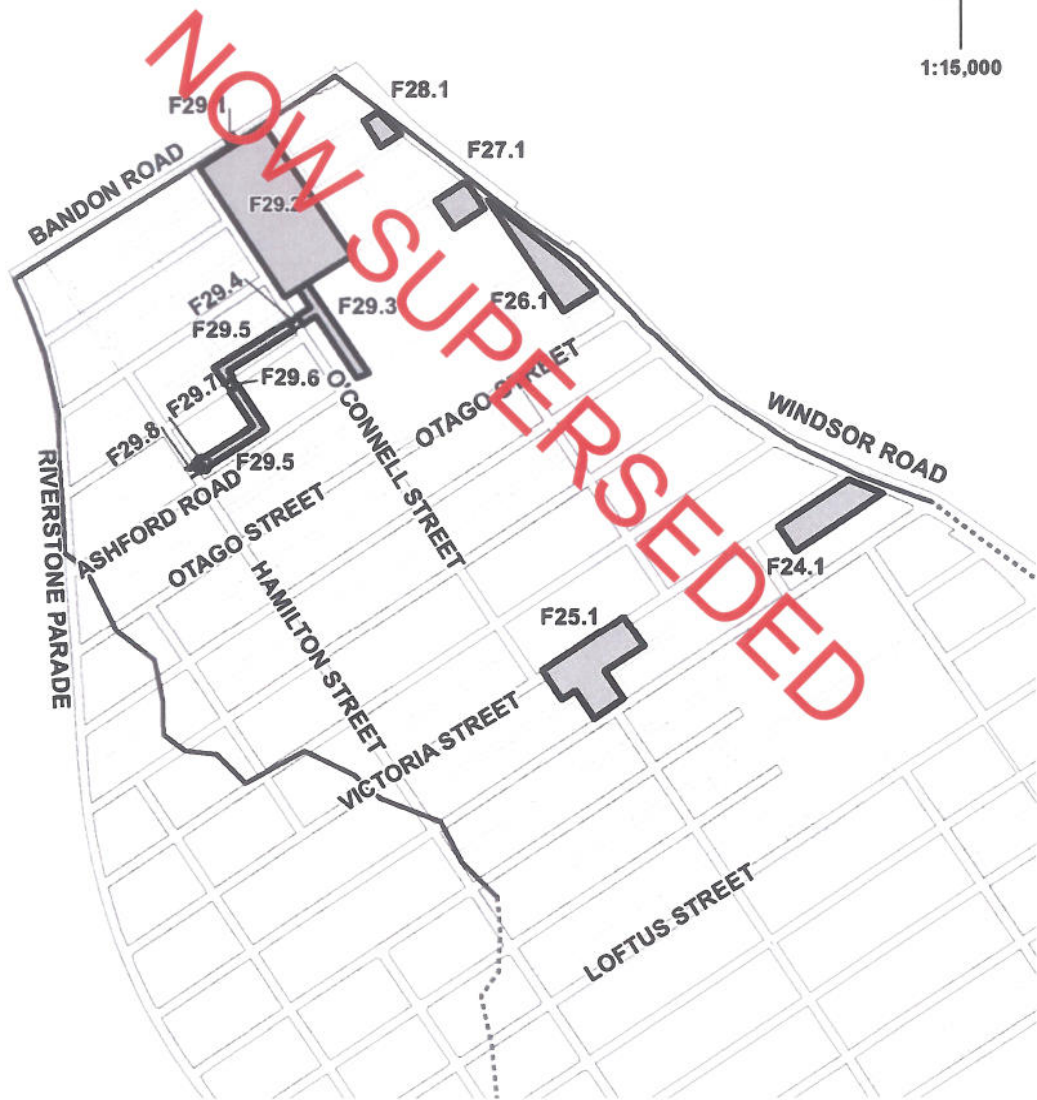
Catchment Areas indicative only

Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA First Ponds Creek Riverstone & Alex Avenue Precincts Sheet 3 of 4</p>
---	---

APPENDIX A 5 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
First Ponds Creek Catchment**

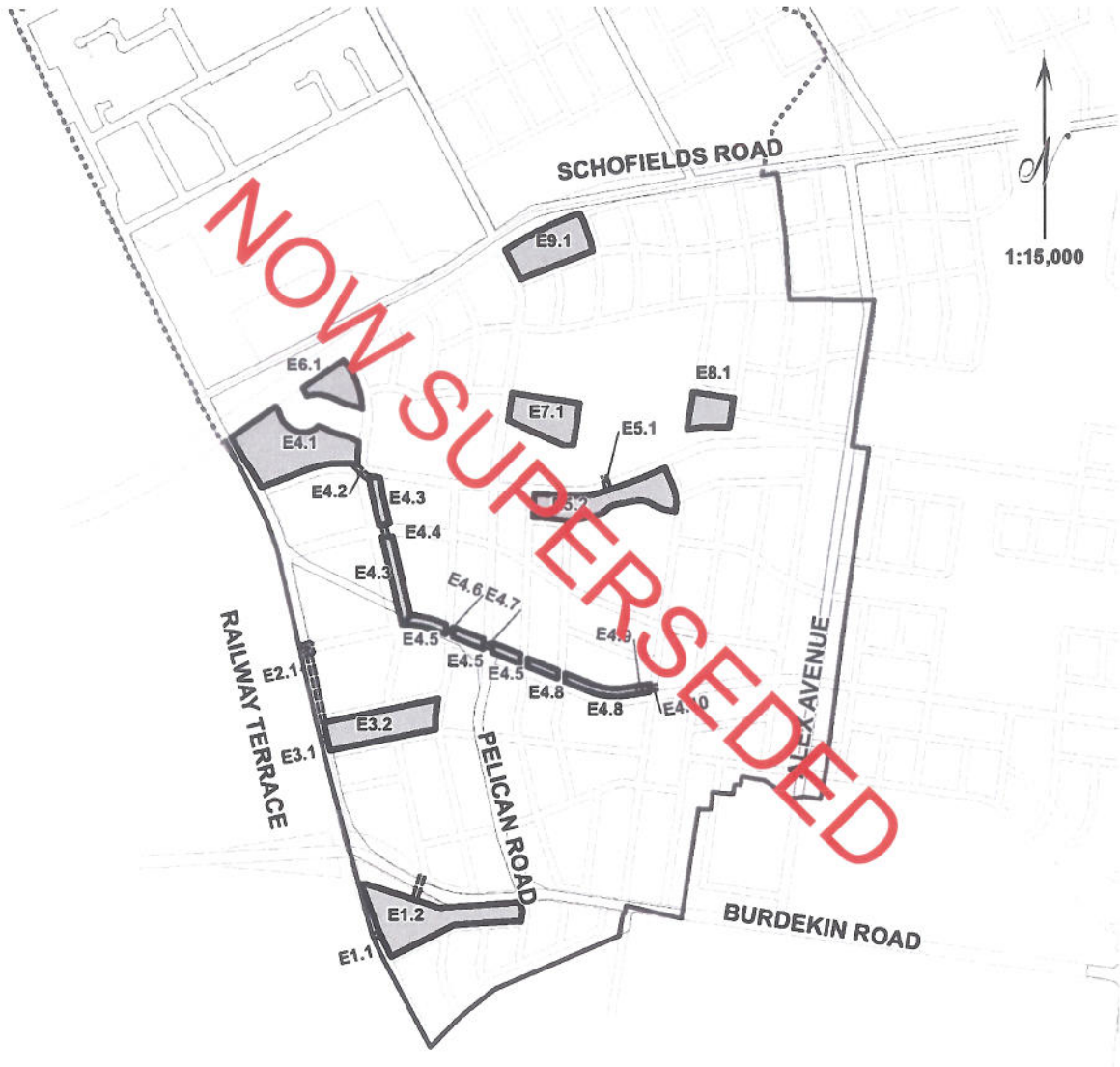


Catchment Areas indicative only
Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA First Ponds Creek Riverstone & Alex Avenue Precincts Sheet 4 of 4</p>
---	---

APPENDIX A 11 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
Eastern Creek Catchment**



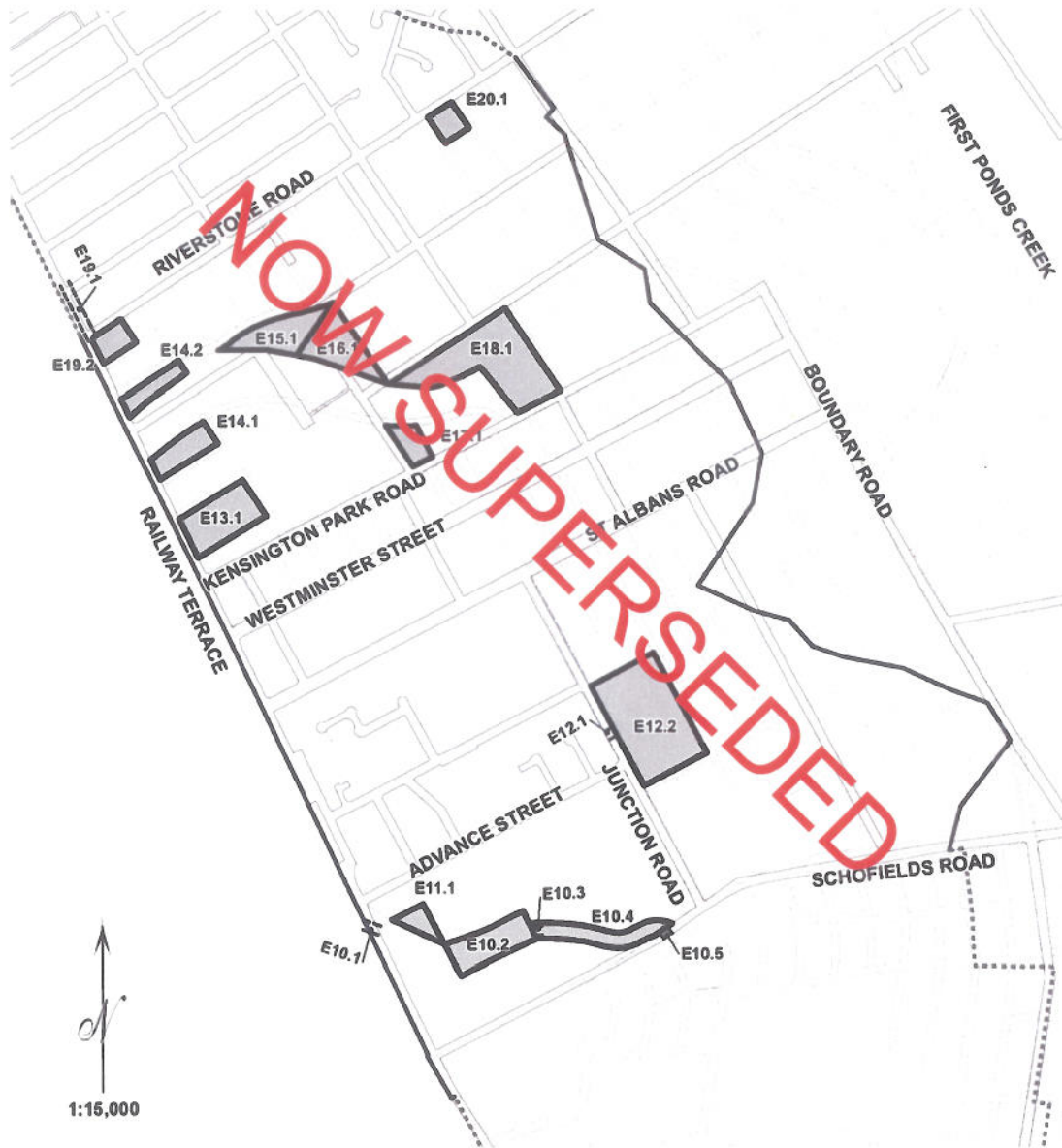
Catchment Areas indicative only

Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA Eastern Creek Riverstone & Alex Avenue Precincts Sheet 1 of 3</p>
---	---

APPENDIX A 12 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
Eastern Creek Catchment**



Catchment Areas indicative only

Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA Eastern Creek Riverstone & Alex Avenue Precincts Sheet 2 of 3</p>
---	---

APPENDIX A 13 of 16

**RIVERSTONE & ALEX AVENUE
WATER CYCLE MANAGEMENT FACILITIES
Eastern Creek Catchment**



Catchment Areas indicative only
Map information is not necessarily up-to-date or correct and Blacktown City Council accepts no responsibility in that regard. As such no reliance on these maps should be made without reference to Council's GIS mapping of catchment zones.

<p>CONTRIBUTION ITEM Water Cycle Management</p>	<p>CATCHMENT AREA Eastern Creek Riverstone & Alex Avenue Precincts Sheet 3 of 3</p>
--	--