

2.0 Permissible Site Discharge and Site Storage Requirements

Where OSD is required in areas formerly located in the Parramatta City Council area, the OSD system must be designed in accordance with either the 3rd or 4th edition of the Upper Parramatta River Catchment Trust (UPRCT) OSD Handbook.

The former Parramatta City Council Local Government Area is divided into 10 separate catchments. Each catchment utilises different parameters as specified in Table 1 below. It is recommended that the catchment and parameters are confirmed with Council before proceeding with detailed design.

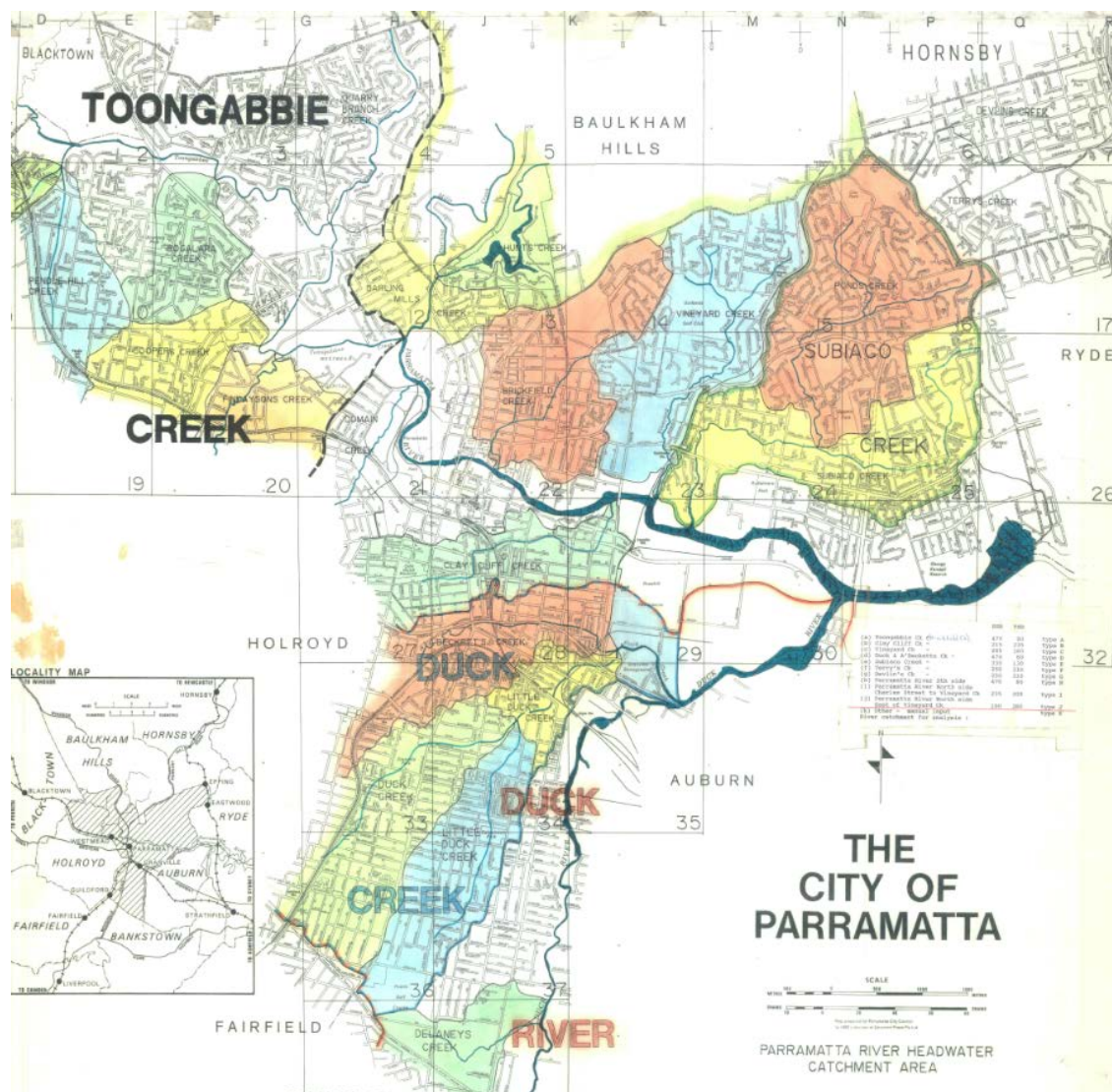
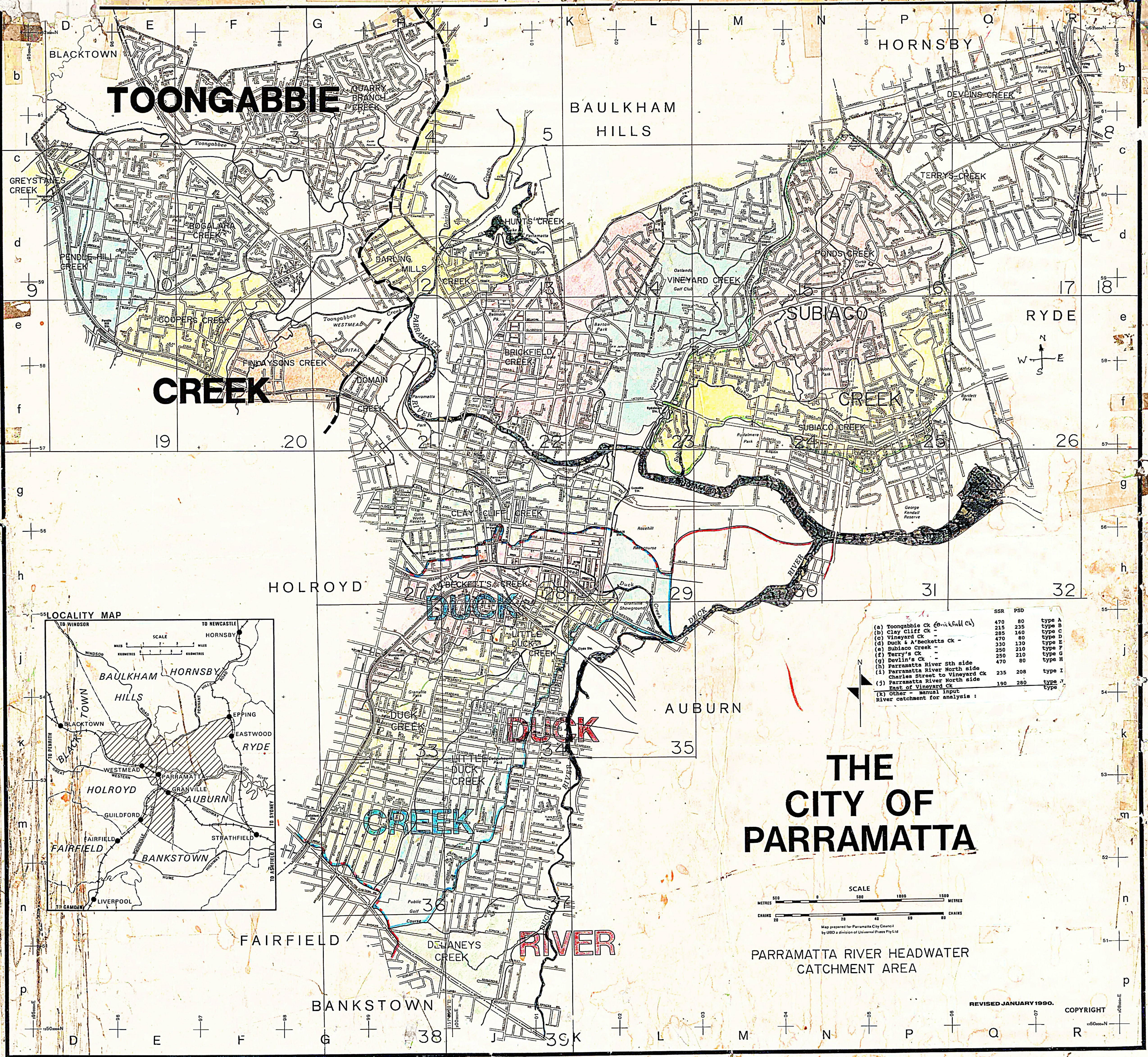


Figure 4 - OSD Catchments of former Parramatta City Council area



TOONGABBIE

BAULKHAM
HILLS

HORNSBY

CREEK

SUBIACO

RYDE

HOLROYD

AUBURN

THE
CITY OF
PARRAMATTA

FAIRFIELD

BANKSTOWN

PARRAMATTA RIVER HEADWATER
CATCHMENT AREA

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	SSR	PSD	
(a) Toongabbie Ck (cont'd)	470	80	type A
(b) Clay Cliff Ck -	215	235	type B
(c) Vineyard Ck -	285	160	type C
(d) Duck & A'Beckett's Ck -	470	80	type D
(e) Subiaco Creek -	330	130	type E
(f) Terry's Ck -	250	210	type F
(g) Devlin's Ck -	250	210	type G
(h) Parramatta River Sth side	470	80	type H
(i) Parramatta River North side	235	208	type I
(j) Parramatta River North side	190	280	type J
(k) Other - manual input			type
River catchment for analysis :			

Table 1 - SSR & PSD parameters for use with UPRCT OSD Handbook (3rd edition)

Catchment	SSR (m ³ /ha)	PSD (L/s/ha)
Toongabbie Creek & Brickfield Creek	470	80
Clay Cliff Creek	215	235
Vineyard Creek	285	160
Duck Creek A'Becketts Creek	470	80
Subiaco Creek	330	130
Terry's Creek	250	210
Devlin's Creek	250	210
Parramatta River (South side)	470	80
Parramatta River North side (Charles Street to Vineyard Creek)	235	208
Parramatta River North side (East of Vineyard Creek)	190	280

SSR = Site Storage Requirement
PSD = Permissible Site Discharge

Table 2 - SSR & PSD parameters for use with UPRCT OSD Handbook (4th edition)

Catchment	SRD _L (L/s/ha)	SSR _L (m ³ /ha)	SRD _U (L/s/ha)	SSR _T (m ³ /ha)
Toongabbie Creek & Brickfield Creek	40	300	150	455
Clay Cliff Creek	40	246	150	396
Vineyard Creek	40	262	150	415
A'Becketts Creek	40	278	150	432
Duck Creek	40	285	150	439
Subiaco Creek	40	284	150	438
Terry's Creek	40	233	150	382
Devlin's Creek	40	224	150	371
Parramatta River (South side)	40	212	150	358
Parramatta River North side (Charles Street to Vineyard Creek)	40	190	150	334
Parramatta River North side (East of Vineyard Creek)	40	245	150	396

Duck River (Confluence with Parramatta River)	40	276	150	430
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SSR_L = Site Storage Requirement (Lower storage)

SSR_T = Site Storage Requirement (Total)

SRD_L = Site Reference Discharge (Lower storage)

SRD_U = Site Reference Discharge (Upper storage)

Council also requires provision of rainwater tanks for on-site stormwater harvesting & reuse complying with BASIX requirements. Rainwater tanks may also attract credit towards offsetting OSD volumes. The dedicated airspace only of rainwater tanks may be considered as a partial offset for detention volume requirements in line with calculations and design requirements under the UPRCT OSD Handbook 4th edition only.

Areas Formerly located in the Hills Shire and Holroyd City Council Areas

Where OSD is required in areas formerly located in the Hills Shire and Holroyd City and now located within the City of Parramatta, the OSD system is to be designed using the following parameters.

Using 3rd edition parameters

SSR (m ³ /ha)	PSD (L/s/ha)
470	80

Using 4th edition parameters

SRD_L (L/s/ha)	SSR_L (m ³ /ha)	SRD_U (L/s/ha)	SSR_T (m ³ /ha)
40	300	150	455

Former Hornsby Shire Council Areas

Where OSD is required in areas formerly located in the Hornsby Shire Council area and now located within the City of Parramatta, the OSD system shall be designed to restrict the post development outflow from the site in the 20 year ARI storm event (Q_{20}) is restricted to the pre development outflow from the site in the 5 year ARI storm event (Q_5), i.e. $Q_{20, post} < Q_{5, pre}$.

Former Auburn Council

Where OSD is required in areas formerly located in the Auburn Council area and now located within the City of Parramatta, the OSD system shall be designed using parameters below. Areas located within Zones 6 & 8 do not require OSD.

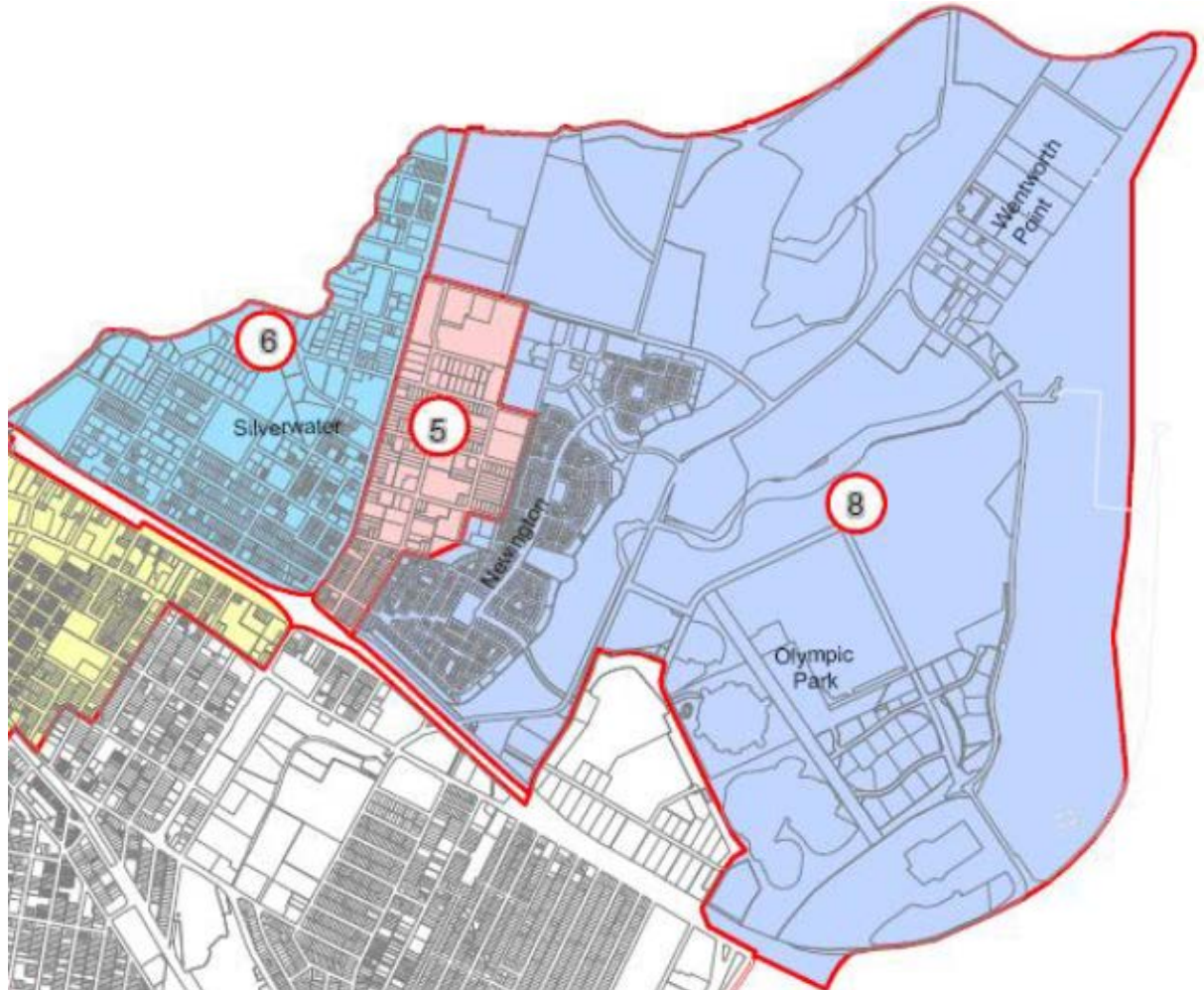


Figure 5 - OSD Catchments of former Auburn Council area

PSD Zone	PSD (L/s/ha)	SSR (m ³ /ha)
1	80	530
2	100	455
3	130	370
4	150	325
5	130	370
6	-	-
7	-	-
8	-	-