

OSD Summary Sheet

**Blacktown City Council**

Area N°1 UPRCT

Property Description:

Abode Hotel, Cricketers Arms Road, Prospect

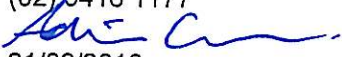
Related File No.:

DSC Project Number 7220

Required Volume	470 m ³ /ha
Required Discharge	80 l/s/ha

ON-SITE STORMWATER DETENTION CALCULATION SHEET

SITE AREA		0.5800 ha	[A]
Basic storage volume		272.600 m ³	[B]
Basic discharge		0.0464 m ³ /s	[C]
Area of site drained		0.5800 ha	[D]
[D]/[A] (Minimum 85%)		100.0 %	[E]
Storage per ha. of contributing area adjusted		470.00	[F]
PSD adjustment		80.00 l/s/ha	[G]
Determine PSD		46.40 l/s	[H]
Maximum head to orifice (TWL - Centre Orifice RL)	85.35 - 82.35	3.00 m	[K]
Selected orifice diameter		111.49 mm	[J]
Maximum discharge		46.40 l/s	[L]
Head for high early discharge (Weir RL - Centre Orifice RL)	85.05 - 82.35	2.70 m	[M]
High early discharge		44.02 l/s	[N]
Approximate mean discharge		45.21 l/s	[P]
Average discharge/ha		77.95 l/s/ha	[Q]
Volume/PSD adjustment		482.1 m ³ /ha	[R]
FINAL STORAGE REQUIRED		279.6 m ³	[S]

Company: Donnelley Simpson Cleary
Designed By: Adrian Cassar BE(Civil), MIE(Aust)
Phone Number: (02) 9416 1177
Signature: 
Date: 21/09/2010