

APPENDIX B

Water Saving Recommendations, Lot 3

WATER SAVINGS CALCULATION - ESR Kemp's Creek Logistics Park, Lot3				
Table B1 - Number of fixtures				
Area	Toilets	Urinal	Basins	showers
Amenities	17	9	18	5
Total	17	9	18	5
<i>Assume 70% of toilet water usage is supplied by rainwater</i>				
Fraction not supplied	0.3			
Table B2 - Results				
No water saving measures		Max water usage rate ¹		
Toilet	Adopt 3* Average Flush Usage in Table C3	68	L/s	
Tap	Adopt 3* Tap Usage in Table C3	162	L/s	
Urinal	Adopt 3* Urinal Usage in Table C3	18	L/s	
Water reuse measures (4*) with RWH		Max water usage rate ¹		
Toilet	Adopt 4* Average Flush Usage in Table C3	59.5	L/s	
Tap	Adopt 4* Tap Usage in Table C3	135	L/s	
Urinal	Adopt 4* Urinal Usage in Table C3	13.5	L/s	
Water reuse measures (5*) with RWH		Max water usage rate ¹		
Toilet	Adopt 5* Average Flush Usage in Table C3	51	L/s	
Tap	Adopt 5* Tap Usage in Table C3	108	L/s	
Urinal	Adopt 5* Urinal Usage in Table C3	9	L/s	
	3* with RWH	4* with RW	5* with RWH	
Improvement Percentage	24	37	49	
Calculation Notes				
¹ Water usage rate per use = Number of items in Table C1 x Usage rate in Table C3				
² Assume total water usage is proportional to max water usage rate				
³ Improvement percentage = % difference between 3* rated fixtures max water usage rate with no rainwater harvesting and design fixture max water usage rate with 70%				

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