

Re: International Convention Centre (ICC) Hotel SSDA 8 – Waste Management Provisions

Waste Audit and Consultancy Services (WACS) was engaged by Lend Lease to complete the waste management plan for SSDA 6 Submission for the ICC Hotel in August 2013.

Subsequently, WACS was engaged by Lend Lease to review and respond to the Secretary's Environmental Assessment Requirements for fitout of the ICC Hotel.

WACS has reviewed the ICC Hotel architectural plans and can confirm that the provisions of the SSDA 6 waste management plan have been captured and incorporated into the current completed design that forms the SSDA 8 submission. Accordingly, an updated waste management plan has been prepared using the current architectural plans for the SSDA 8 submission; demonstrating how the current design delivers the accepted provisions of the SSDA 6 waste management plan.

The following tables and figures extract the key elements of the waste management plan in order to confirm how the completed design addresses the waste management needs of the development.

Table 1 summarises the expected quantities of waste and recyclables generated by the operational hotel activities in terms of weight and volume per day and week.

Table 1 – ICC Hotel waste generation

	Kg/Day	L/Day	Kg/Week	L/Week
Paper/Cardboard	258	4,306	1,809	30,142
Comingled	279	3,724	1,955	26,065
Organics	461	1,537	3,228	10,759
Oil Recycling	55	61	388	427
General Waste	246	4,097	1,721	28,676
Total	1,300	13,724	9,100	96,068

Table 2 shows the systems that have been incorporated in the ICC Hotel design.

Table 2 – ICC Hotel waste systems

Waste Stream	Bin Type	No. Of Bins	Weekly Clearance Frequency	Capacity (weekly)	Estimated volume / week	Footprint per bin (m ²)	Total Footprint
Paper / Cardboard Recycling	660L MGB	2	Transfer Only	N/A	30,142	0.98	1.96
	Baler	1	2-3	Adequate – approx 2-3 bales per day		2m (baler) + 6m storage	8.00
	240L MGB (paper only)	2	As required depending on operational generation			0.43	0.86
Food Organics	Pulpmaster 2700L tank	1	6	5,400L	5,379**	3.63	3.63
Comingle Recycling	240L MGB	20*	6	28,800L	26,065	0.43	8.60
General Waste	240L MGB	10*	Transfer only	N/A	28,676	0.43	4.30
	Compactor 12-15m ³	1	1	Ample		30.00	30.00
Oil	Caddy	1	as required	1,000	427	2.00	2.00
Soft Plastics	Bale Frame	2	as required	2,000 assuming 1 collection per week	TBA	0.9	1.8
TOTAL		53					61.15

*these bins will be utilised throughout the hotel and are unlikely to all be stored within the waste storage area at the same time.

**this volume is half the amount estimated in Table 1 as this volume represents the quantity of liquid waste that would actually be generated and stored by the Pulpmaster system-i.e. the Pulpmaster process effectively halves the volume of raw organic material input into the system from kitchen areas.

Figure 1 shows the layout of the ICC Hotel waste storage area and loading dock on the ground floor.

Figure 1 – Waste storage area and collection point

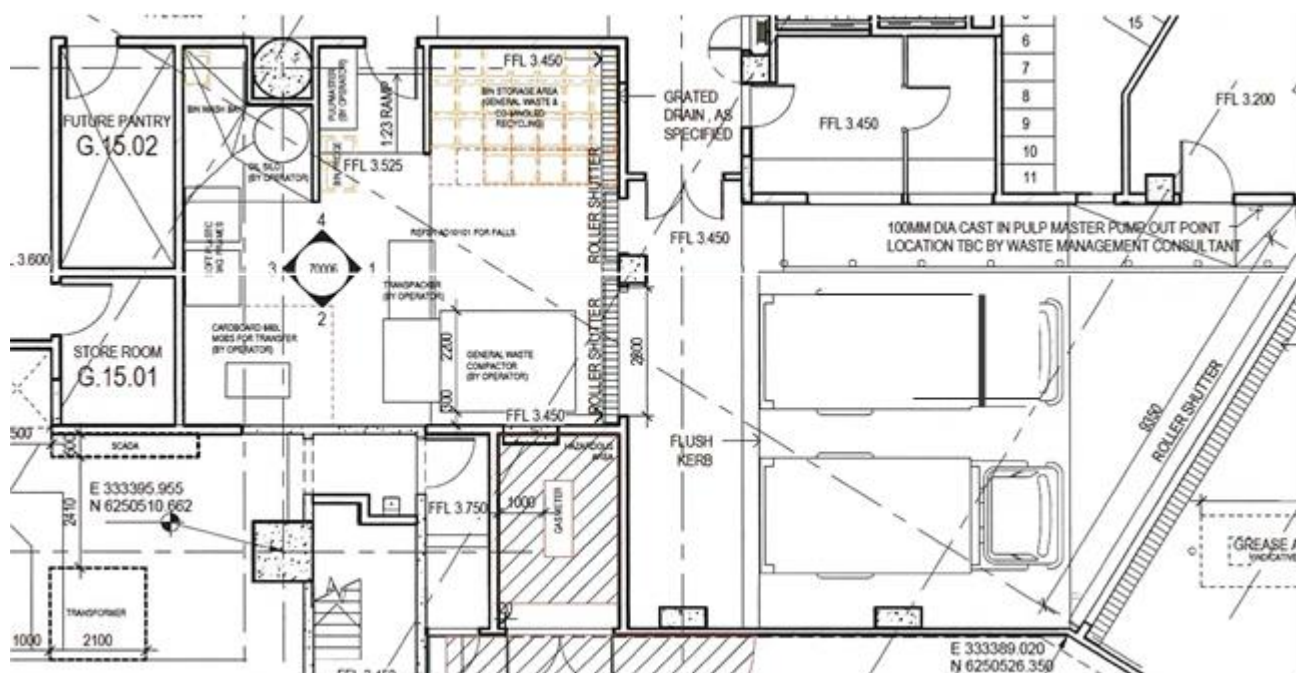


Table 3 provides examples of possible disposal facilities for each stream-it should be noted that there are multiple facility options for each stream and the final disposal facility will ultimately be determined by the appointed waste contractor.

Table 3 – Examples of possible disposal facilities

	Example of facility
Paper/Cardboard	VISY Paper Mill, 6 Herbert Place, Smithfield, NSW 2164
Commingled	VISY MRF, 6 Herbert Place, Smithfield, NSW 2164 or 43 Bay Road, Taren Point, NSW 2229
Organics	Earth Power, 35 Grand Ave, Camellia, NSW 2142
General Waste	Woodlawn Bioreactor (engineered landfill), 619 Collector Rd, Tarago, NSW 2580

Conclusion

WACS confirms that the ICC Hotel design adequately accommodates the estimated the waste generation rates and waste management requirements of the expected hotel operations. Furthermore, sufficient flexibility and surplus capacity will be delivered by the proposed waste systems to allow for any future fluctuations in waste generation.

If any further discussion is required pertaining to these matters, please do not hesitate to contact me directly to discuss.

Regards,

Sabina Wills

Sabina Wills
Acting Manager - Principal Consultant
PO Box 1667, Rozelle, NSW 2039
M 0458 006 175 T 02 9818 8267 F 02 9818 8271
E: sabina@wasteaudit.com.au
Web: www.wasteaudit.com.au