

# Solvent Management Report

Date range Jan 2008 to Dec 2008

## Assumptions

The heat-set inks can contain between 25% and 51% VOCs, but the supplier of our inks has stated that the average is VOC is 35%. Similarly, other substances have wide ranges of solvent content. Therefore, best case and worst case calculations are used.

## Solvent Management methods

Heat set inks contain a high proportion of solvent which is evaporated in a heated drier. The efflux from the drier is passed through a thermal oxidiser. The performance of these oxidisers is checked annually by an external competent organisation. It is not feasible to change to a different ink technology. Nor is it feasible to dictate to our customers the ink coverage; a page which is predominantly white consumes less ink than one which is predominantly pictures.

## Solvent flow

### Inks

	Min Kg	Max Kg	
Total input type I1	651414	670026	Solvent in inks to presses
Total output type O1	3257	3350	Solvent after abatement plant
Total output type O4	19542	20101	Uncaptured solvent
Total output type O5	628615	646575	Incinerated solvent
Total output type O8	1233	1269	Solvent sent to recycling

### Blanket wash

	Min Kg	Max Kg	
Total input type I1	3240	6840	Solvent in wash to presses
Total output type O4	97	205	Uncaptured solvent
Total output type O6	3143	6635	Solvent in collected waste

### Roller wash

	Min Kg	Max Kg	
Total input type I1	216.9	301.2	Solvent in wash to presses
Total output type O4	10.8	15.1	Uncaptured solvent
Total output type O6	206.0	286.1	Solvent in collected waste

## Fugative emissions

	Min Kg	Max Kg	
Total inputs	654871	677167	
Total O1 + O5 + O6 + O8	636454	658115	
Total fugitive	18417	19052	
<b>Fugitive as %</b>	<b>2.8</b>	<b>2.8</b>	<b>% of input</b>