

Wyndeham Heron (Maldon)

Solvent Management Plan 2009

I1: Solvent Input

<i>Raw material by type</i>	Min	Max
a Ink	303552.9	312225.84
b Blanket wash	21600.00	45600.00
c Roller wash	2168.64	3012.00
I1=:	327321.54	360837.84 kg

I2: Recovered solvent re-used in process

	Min	Max
a No internal reclamation of solvents	0.00	0.00
I2=:	0.00	0.00 kg

O1: Solvents in waste gasses

<i>Stack emissions</i>	Min	Max
a Rotoman 1	1024.06	1168.06
b Rotoman 2	-36.10	57.47
c Rotoman 3	20.93	138.15
d Lithoman 1	16.75	46.52
e Lithoman 2	1457.02	1574.75
O1=:	2482.66	2984.95 kg

O2: Solvents lost in water to drain

	Min	Max
Assumed nil as consent forbids solvents	0.00	0.00
O2=:	0.00	0.00 kg

O3: Residual solvents in products

	Min	Max
10 to 15% residual VOC	34317.62	51476.43
O3=:	34317.62	51476.43 kg

O4: Stored solvent venting & uncaptured emissions

	Min	Max
Assumed as everything else (i.e all fugitive)	40573.96	6341.83
O4=:	40573.96	6341.83 kg

O5: Solvents destroyed in abatement plant

	Min	Max
Assumes 99% abatement	245783.34	295510.05
O5=:	245783.34	295510.05 kg

O6: Solvents in waste not recovered (rags & containers)

	Min	Max
Assumes 1% of total VOC input	3273.22	3608.38
O6=:	3273.22	3608.38 kg

O7: Solvents sold to third parties

Assumed nil

	Min	Max
O7=:	0.00	0.00

kg

O8: Solvents collected in waste for external recycling

Waste by type

- a Ink
- b Blanket wash
- c Roller wash

	Min	Max
a Ink	890.75	916.20
b Blanket wash	0.00	0.00
c Roller wash	0.00	0.00
O8=:	890.75	916.20

kg

O9: Other uncontrolled releases

Assumed nil

	Min	Max
	0.00	0.00
O9=:	0.00	0.00

kg

C: Consumption

$C = I1 + I2 - O8$

	Min	Max
C=:	326430.79	359921.64
	326.43	359.92

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F: Fugitive emission

$F = I1 - O1 - O5 - O6 - O7 - O8$

74891.58 57818.26 kg

or

$F = O2 + O3 + O4 + O9$

74891.58 57818.26 kg

Fugitive emission as percentage of total input

22.88 16.02 %

Solvent Balance check:

Solvent Balance check:

I1	327321.54	360837.84
I2	0.00	0.00
	327321.54	360837.84
O1	2482.66	2984.95
O2	0.00	0.00
O3	34317.62	51476.43
O4	40573.96	6341.83
O5	245783.34	295510.05
O6	3273.22	3608.38
O7	0.00	0.00
O8	890.75	916.20
O9	0.00	0.00
	327321.54	360837.84
Balance:	0.00	0.00

kg