

Permit Number : BT4885IT

Operator : UPM-Kymmene UK Ltd

Facility : Shotton Paper Mill

Form Number : Residue 1

Reporting of residue quality for the period from1st October 2018.....to31st December 2018

Ash Composition (TOC/LOI)		% Carbon (TOC) ^{w/w}
Bottom Ash	LOI (%)	
	<1.0	*

- At least one of LOI or TOC to be reported.

Ash Composition (Metals, Dioxins, etc.)																
	Cd mg/kg	TI mg/kg	Hg mg/kg	Pb mg/kg	Cr mg/kg	Cu mg/kg	Mn mg/kg	Ni mg/kg	As mg/kg	Co mg/kg	V mg/kg	Zn Mg/k g	DIOXIN I-TEQ ng/kg	DIOXIN WHO-TEQ ng/kg		
														Humans mammals	Birds	Fish
Bottom Ash	0.8	<1	<0.1	333	222.1	976	406	18.4	39.5	6.5	18	1075	0.367	0.428	0.777	0.461
APC Residues	4	<1	0.2	1085	152.8	664	669	35.3	78.3	13.2	28	2816	28.6	27.8	76.3	28.9



Signed

Date 8/2/19

(authorised to sign as representative of UPM-Kymmene UK Ltd)